

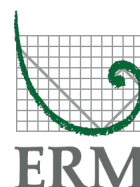
Asia Submarine-cable Express (ASE) – Tseung Kwan O

Impact Water Quality Monitoring Report (Zone A)

6 February 2014

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Impact Water Quality Monitoring Report (Zone A)

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Client: NTT Com Asia Ltd		GMS No: 0223932			
Summary: This report presents the monitoring requirements, methodologies and results of the impact marine water quality measurements at the monitoring locations near Tseung Kwan O in accordance with the EM&A Manual.		Date: 6 February 2014			
		Approved by:  Terence Fong Project Director			
v0	Impact Water Quality Monitoring Report (Zone A)	YL	FZino	TFONG	6 Feb 14
Revision	Description	By	Checked	Approved	Date
<p>This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.</p> <p>This report has been prepared by Environmental Resources Management the trading name of 'ERM Hong-Kong, Limited', with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.</p> <p>We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.</p> <p>This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.</p>		Distribution		 	
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Asia Submarine-cable Express (ASE) – Tseung Kwan O
Environmental Certification Sheet
EP-433/2011


Reference Document/Plan

Document/ Plan to be Certified/ Verified:	2014 Third Weekly Impact Water Quality Monitoring Report (Zone A)
Date of Report:	6 February, 2014
Date prepared by ET:	ERM-Hong Kong Ltd
Date received by IEC:	Ecosystem Ltd

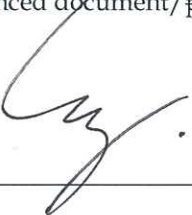
Reference EM&A Manual/ EP Requirement

EM&A Manual Requirement:	Section 2
Content:	<i>Water Quality Monitoring</i>
2.5	<p>“An Impact Monitoring Report will be provided weekly within three days after the relevant monitoring data are collected or become available during Project marine installation work.....”</p> <p>“A Weekly Impact Monitoring shall include, but not limited to, the following details: basic Project Information – Project marine installation works programme with fine tuning of activities showing the inter-relationship with environmental protection/mitigation measures for the week and works undertaken during the week; operating practices of any Project marine installation works machinery (e.g. cable burial machine) during sampling (including: position, speed, cable burial depth) and an interpretation of monitoring results; and the monitoring data should be provided graphically to show the relationship between the Control and the Impact monitoring stations and compliance or non-compliance with respect to the Action/Limit Levels.”</p>
EP Condition:	Condition No. 2.4
Content:	<i>Impact Monitoring Report on Water Quality</i>
2.4	<p>To monitor the environmental impacts and timely implementation of the recommended mitigation measures, the Permit Holder shall</p> <ul style="list-style-type: none">(ii) submit to the Director four hard copies and one electronic copy of the following, as defined in the approved EM&A Manual:(b) weekly impact monitoring (and site audit report*) within three days after the relevant monitoring data are collected or become available. <p>*site audit not currently necessary as no land works.</p>

ET Certification

I hereby certify that the above referenced document/ plan complies with the above referenced condition of EP-433/2011.	
Terence Fong, Environmental Team Leader:	
Date:	6 February 2014

IEC Verification

I hereby verify that the above referenced document/ plan complies with the above referenced condition of EP-433/2011.	
Vincent Lai, Independent Environmental Checker:	
Date:	7 Feb 2014

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EXECUTIVE SUMMARY

The submarine cable installation works for the Asia Submarine-cable Express (ASE) cable system commenced on 12 January 2014. This is the **2014 Third Weekly Impact Water Quality Monitoring Report** presenting results and findings of the impact water quality monitoring conducted during the period from 26 January to 1 February 2014 in accordance with the *Updated Environmental Monitoring and Audit Manual (Updated EM&A Manual)*.

Summary of Construction Works Undertaken during the Reporting Period

During the reporting period, submarine cable installation works were conducted in Zone A (See *Figure 2.2*), which included diver inspections (not involving water jetting) and cable burial works (using water jetting).

Note no works were conducted on 28 January 2014, when the Networker cable barge was berthed; nor from 31 January to 1 February 2014 inclusive, due to the Chinese New Year Holiday.

Water Quality Monitoring

Five monitoring events were scheduled in the reporting period from 26 January to 1 February 2014. Monitoring events at designated monitoring stations in Zone A were performed on schedule on 26-30 January inclusive.

Note no monitoring works were conducted from 31 January to 1 February 2014 inclusive due to the Chinese New Year Holiday.

Environmental Non-conformance

No exceedances of Action and/or Limit Levels were recorded during the reporting period.

No complaint and summons/prosecution was received during the reporting period.

Future Key Issues

In the week from 2 to 8 February 2014, the cable installation works to be conducted in Zone A will include:

- Diver inspections (no water jetting work);
- Cable burial works (water jetting work); and
- Equipment stowage (no water jetting work).

Note no cable installation works will be conducted on 2 February 2014 due to Chinese New Year Holiday and the cable installation works will be completed on 5 February 2014. Hence no impact monitoring events will be scheduled on 2, 6, 7, and 8 February 2014.

ERM-Hong Kong, Limited (ERM) was appointed by NTT Com Asia (NTTCA) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the re-installation of a damaged section of the telecommunication cable Asia-Submarine-cable Express (ASE). The ASE cable is approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia (thereinafter called the Project).

1.1 PURPOSE OF THE REPORT

This **2014 Third Weekly Impact Water Quality Monitoring Report**, summarises results of impact water quality monitoring as part of the EM&A programme during the reporting period from 26 January to 1 February 2014.

1.2 STRUCTURE OF THE REPORT

The structure of the Report is as follows:

Section 1 : Introduction

Provides details of the background, purpose and report structure.

Section 2 : Project Information

Summarises background and scope of the project, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : Water Quality Monitoring Requirements

Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, and Event Action Plan.

Section 4 : Monitoring Results

Summarises the water quality monitoring results obtained in the reporting period.

Section 5 : Environmental Non-conformance

Summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 6 : Future Key Issues

Summarises the monitoring schedule for the next reporting period.

Section 7 : Conclusions

Presents the key findings of the impact monitoring results.

2.1 BACKGROUND

NTT Com Asia (NTTCA) installed a telecommunication cable (Asia Submarine-cable Express (ASE) cable) of approximately 7,200 km in length, connecting Japan and Singapore with branches to the Philippines, Hong Kong SAR (HKSAR) and Malaysia and was responsible for securing the approval to land the ASE cable in Tseung Kwan O, Hong Kong SAR (HKSAR). The landing site is at a Beach Manhole (BMH) and ultimately the cable connects with a Data Centre in Tseung Kwan O (TKO) Industrial Estate which was completed in 2012. It should be noted that Tseung Kwan O is currently the landing site for a number of submarine cables. From Tseung Kwan O, the cable extends westward approaching the Tathong Channel. Near to Cape Collinson, the cable is approximately parallel to the Tathong Channel until north of Waglan Island where the cable travels eastward to the boundary of HKSAR waters and enters the South China Sea. The total length of cable in Hong Kong SAR waters is approximately 33.5 km. A map of the cable route is presented in *Figure 2.1*.

A Project Profile (PP-452/2011) which includes an assessment of the potential environmental impacts associated with the installation of the submarine telecommunications cable system was prepared and submitted to the Environmental Protection Department (EPD) under section 5.(1) (b) and 5.(11) of the *Environmental Impact Assessment Ordinance (EIAO)* for the application for Permission to apply directly for Environmental Permit (EP). EPD subsequently issued an Environmental Permit (*EP- 433/2011*).

Pursuant to *Condition 2.4* of *EP- 433/2011*, an environmental monitoring and audit (EM&A) programme, as set out in the *Environmental Monitoring and Audit Manual (EM&A Manual)* is required for this Project. Baseline data were collected prior to the start of cable installation works in 2012 and EM&A was conducted throughout the cable installation and after its completion in early 2013 as required in the *EM&A Manual*.

Upon inspection in October 2013 the ASE cable was found to be damaged and a section within Zone A (see *Figure 2.2*) required re-installation. The EM&A programme are therefore required to resume for the cable installation works in Hong Kong Waters (the "Project") in accordance with *Updated EM&A Manual*.

Baseline water quality update monitoring was conducted prior to the re-installation works and results summarise in the '*Baseline Water Quality Monitoring Update Report (Zone A)*' of December 2013.

Impact monitoring started on 12 January 2014, when the cable installation works commenced in Zone A. Impact monitoring is being conducted on a daily basis as the cable installation works proceed in Zone A, including five

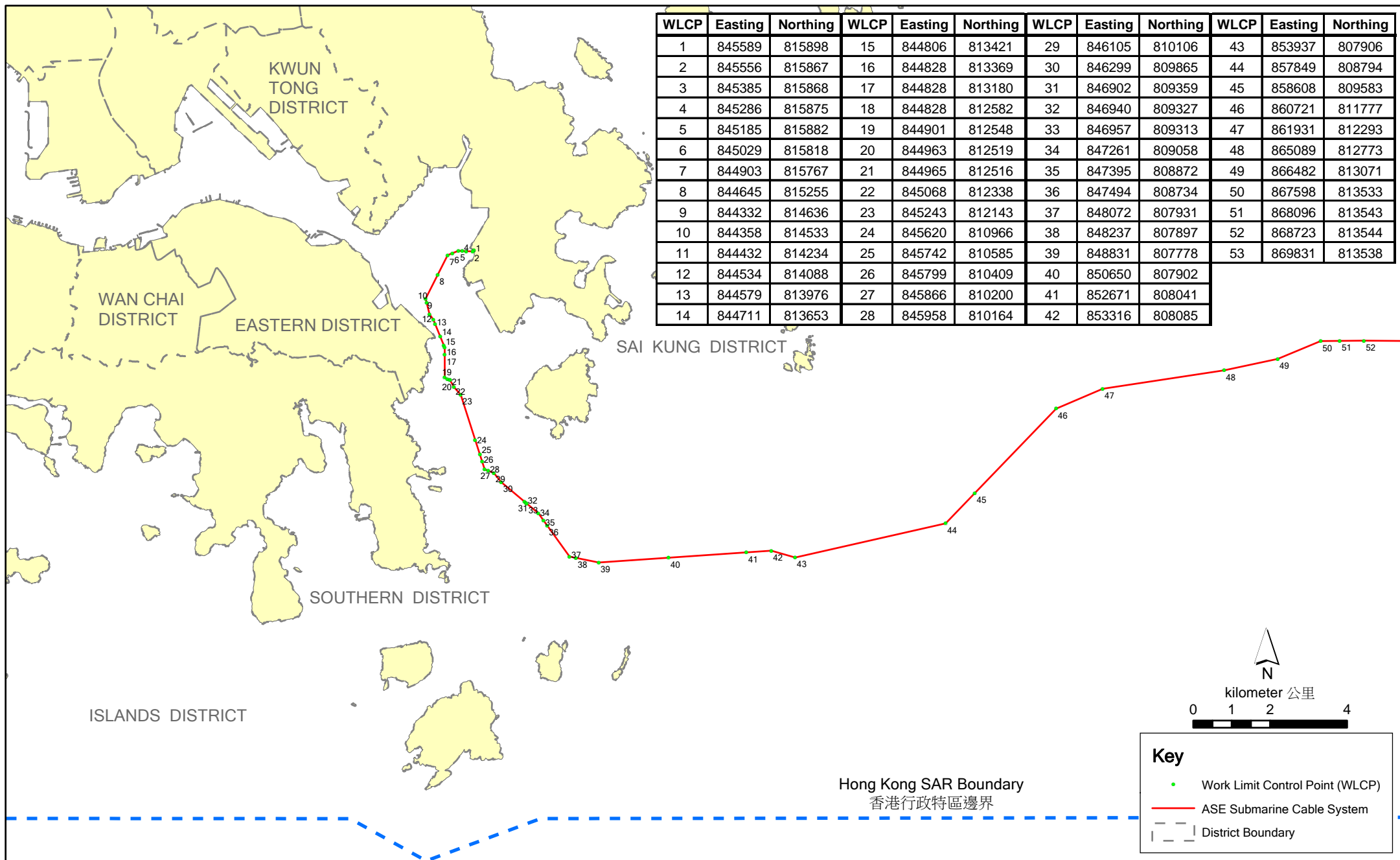


Figure 2.1

ASE Submarine Cable System (Layout Plan)

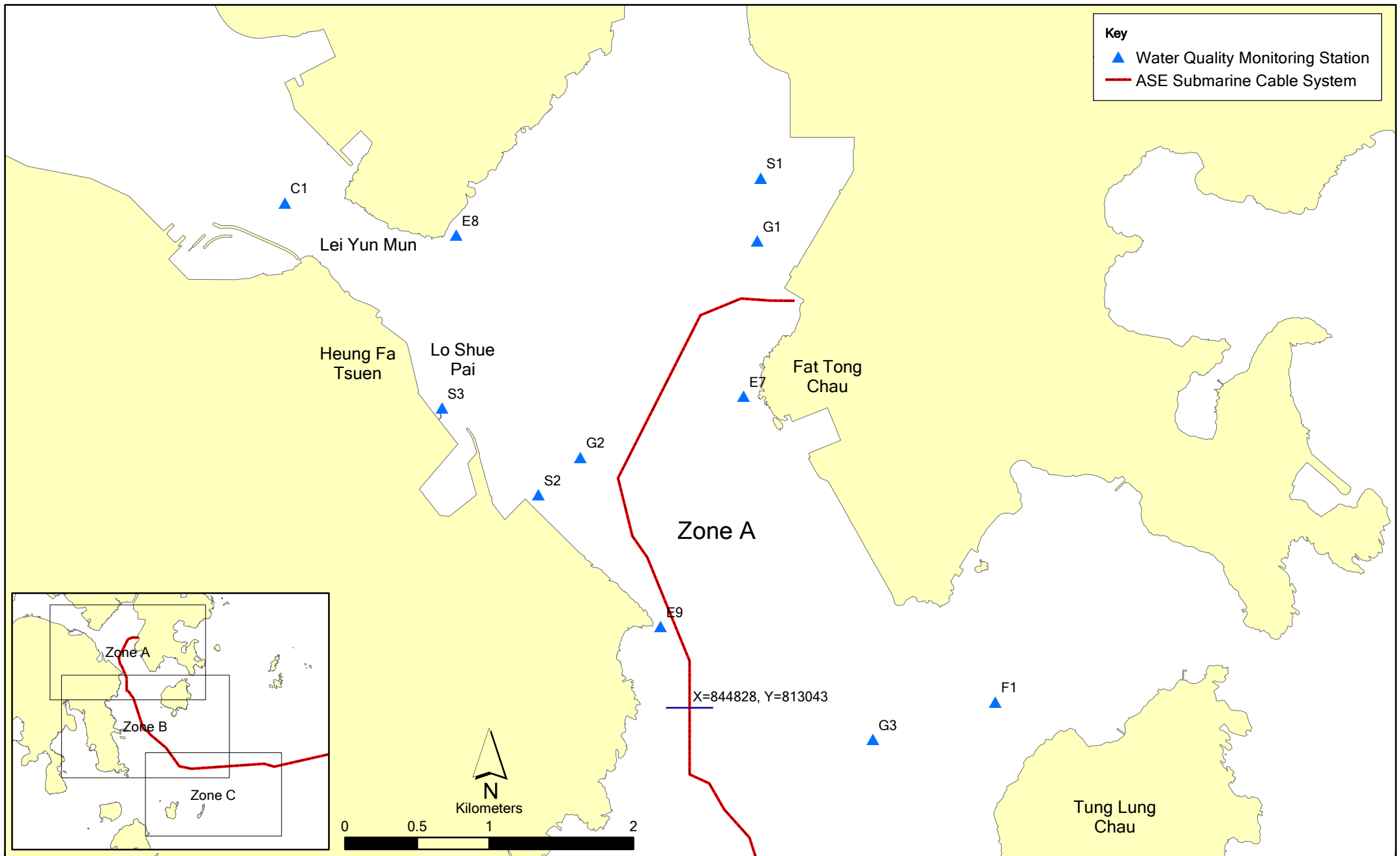


Figure 2.2

Water Quality Monitoring Station (Zone A)

days within the reporting period (no works were conducted on two days over the Chinese New Year holidays). The first week of impact monitoring was reported in the **2014 First Weekly Impact Water Quality Monitoring Report** issued for the reporting period 12-18 January 2014 inclusive. The second week of impact monitoring was reported in the **2014 Second Weekly Impact Water Quality Monitoring Report** issued for the reporting period 19-25 January 2014 inclusive. This Report presents the results and findings from the third week of impact monitoring, conducted from 26 January to 1 February 2014 inclusive, at the monitoring stations in Zone A. No impact monitoring works were conducted from 31 January to 1 February 2014 inclusive due to the Chinese New Year Holiday and no cable installation works being conducted.

2.2 **MARINE CONSTRUCTION WORKS UNDERTAKEN DURING REPORTING WEEK**

During the reporting period, submarine cable installation works were conducted in Zone A (See *Figure 2.2*), which included diver inspections (not involving water jetting work); and cable burial works using water jetting.

Note On 28 January 2014 the Networker cable barge was berthed alongside and no works conducted. No works were carried out from 31 January to 1 February 2014 inclusive either, due to the Chinese New Year Holiday.

2.3 **STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS**

A summary of the relevant permits, licences and reports on marine water quality for this Project is presented in *Table 2.1*.

Table 2.1 *Summary of Environmental Licensing, Notification, Permit and Reporting Status*

Permit / Licence / Notification / Report	Reference	Validity Period	Remarks
Environmental Permit	EP 433/2011	Throughout the construction and operation stages	Granted on 20 December 2011
EM&A Manual	-	Throughout the construction stage	Submitted on 18 September 2012
Updated EM&A Manual	-	Throughout the construction stage	Submitted December 2013
Baseline Water Quality Monitoring Update Report (Zone A)	-	Throughout the construction period for Zone A	Submitted on 5 December 2013

3.1 MONITORING LOCATIONS

In accordance with the *Updated EM&A Manual*, water quality monitoring samples were collected at the eleven (11) stations situated around the cable installation works in Zone A, as soon as the Project marine installation works started. The locations of the sampling stations within Zone A are shown in *Figure 2.2*.

- E7 is the Impact Station located at Fat Tong Chau to monitor the impacts of cable installation works on the coral communities in the proximity;
- E8 is an Impact Station to monitor the impacts of cable installation works on the coral communities along Junk Bay – South West;
- E9 is an Impact Station to monitor the impacts of cable installation works on the coral communities at Cape Collison (the Gradient Station is not set due to the short distance of this Impact Station to nearby proposed cable works which may affect the Project marine installation works);
- F1 is an Impact Station to monitor the impacts of cable installation works on the Tung Lung Chau Fish Culture Zone;
- S1 is an Impact Station situated at the WSD Seawater Intake Point in Junk Bay. It is located within 500 m north of the cable alignment at Junk Bay and set up to monitor the effect of Project marine installation works in the area;
- S2 is an Impact Station to monitor the impacts of cable installation works on the WSD Seawater Intake at Siu Sai Wan;
- S3 is an Impact Station to monitor the impacts of cable installation works on the Pamela Youde Nethersole Eastern Hospital Cooling Water Intake at Heng Fa Chuen;
- G1 is a Gradient Station between S1 and the cable alignment;
- G2 is a Gradient Station between S2 and the cable alignment;
- G3 is a Gradient Station between F1 and the cable alignment; and
- C1 is a Control Station (approximately 3 km from the proposed cable alignment) for Zone A. It is not supposed to be influenced by the Project marine installation works due to its remoteness from the works.

The co-ordinates of the above monitoring stations in Zone A are listed in *Table 3.1*.

Table 3.1 Water Quality Monitoring Stations

Monitoring Station	Nature	Easting	Northing
E7	Impact Station (Coral Community)	843779	814520
E8	Impact Station (Coral Community)	843111	815126
E9	Impact Station (Coral Community)	843557	811853
F1	Impact Station (Fish Culture Zone)	847196	811056
S1	Impact Station (Seawater Intakes)	847639	805900
S2	Impact Station (Seawater Intakes)	849587	805696
S3	Impact Station (Seawater Intakes)	845474	810605
G1	Gradient Station	845297	816282
G2	Gradient Station	844071	814784
G3	Gradient Station	846099	812826
C1	Control Station	842022	816547

3.2 MONITORING PARAMETERS

The impact water quality monitoring was conducted in accordance with the requirements stated in the *Updated EM&A Manual*. Monitoring parameters are presented below.

Parameters measured *in situ* were:

- Dissolved Oxygen (DO) (% saturation and mg L⁻¹);
- Temperature (°C);
- Turbidity (NTU); and
- Salinity (‰).

The only parameter measured in the laboratory was:

- Suspended Solids (SS) (mgL⁻¹).

In addition to the water quality parameters, other relevant data were measured and recorded in field logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

3.3 MONITORING EQUIPMENT AND METHODOLOGY

3.3.1 Monitoring Equipment

Table 3.2 summaries the equipment used for the impact water quality monitoring.

Table 3.2 *Equipment Used during Impact Water Quality Monitoring*

Equipment	Model
Global Positioning Device	Garmin eTrex 10
Water Depth Gauge	Speedtech Instrument SM-5
Water Sampling Equipment	1520 Kemmerer Water Sampler
Salinity, DO, Temperature Measuring Meter	YSI Pro 2030
Current Velocity and Direction	Flow Probe FP111
Turbidity Meter	HACH Model 2100Q Turbid Meter

3.3.2 *Monitoring Methodology*

Timing & Frequency

In-situ data and SS data were collected during Project marine installation works from 7:00 to 23:00 on a daily basis. The impact monitoring schedule for the reporting period is presented in *Annex A*.

Impact monitoring commenced when Project marine installation works started in Zone A. (The daily sampling works will cease once no Project marine installation works are being undertaken within Zone A)

Due to the weather conditions and travelling time between stations, *in-situ* measurement and SS sampling were taken at the impact monitoring stations with approximately four-hour intervals in Zone A. The monitoring frequency and parameters for impact monitoring are summarised in *Table 3.3*.

Table 3.3 *Monitoring Frequency and Parameters for Impact Monitoring in Zone A*

Zone	Station Type	Monitoring Station	Monitoring Frequency	Monitoring Parameter
A	Control	C1	Daily at a 4-hour interval while cable installation works are being undertaken in Zone A	Temperature, Turbidity, Salinity, DO and SS
	Gradient	G1, G2, G3		
	Impact	E7, E8, E9, F1, S1, S2, S3,		

For *in-situ* measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were also collected at each water depth at each station for the laboratory analysis.

Depths

Measurements/ water samples were taken at each sampling station, at three depths, namely, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, when the mid-depth sample may have been omitted. For stations that are less than 3 m in depth, only the mid-depth sample was taken.

Sampling/ Testing Protocols

All *in-situ* monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at monthly intervals throughout all stages of the water quality monitoring (*Annex B*). Responses of sensors and electrodes were checked with certified standard solutions before each use.

For the on-site calibration of field equipment, the *BS 1427: 1993, Guide to Field and On-Site Test Methods for the Analysis of Waters* was observed. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available.

Water samples for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4 °C without being frozen), and delivered to a HOKLAS laboratory as soon as possible after collection.

Two replicate samples were collected from each of the monitoring events for *in situ* measurement and lab analysis.

Laboratory Analysis

All laboratory work was carried out in a HOKLAS accredited laboratory. Water samples of about 1,000 mL were collected at the monitoring and control stations for carrying out the laboratory determinations. The determination work started within the next working day after collection of the water samples. The SS laboratory measurements were provided within 2 days of the sampling event (48 hours). The analyses followed the standard methods as described in APHA Standard Methods for the *Examination of Water and Wastewater, 19th Edition*, unless otherwise specified (APHA 2540D for SS).

The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (*Annex C*)

3.3.3 Action and Limit Levels

The Action and Limit levels for Zones A, which were established based on the results of *Baseline Update Monitoring (Zone A)*, are presented in *Table 3.4*.

Table 3.4 Action and Limit Levels of Water Quality for Zone A

Parameter	Action Level	Limit Level
SS in mgL ⁻¹ (Depth-averaged) ^(a) ^(c)	95%-ile of baseline data (7.01 mg L ⁻¹), or	99%-ile of baseline data (7.15 mg L ⁻¹), and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station

Parameter	Action Level	Limit Level
DO in mgL ⁻¹ (b)	<u>Surface and Middle</u> ^(d) 5%-ile of baseline data for surface and middle layer (5.91 mg L ⁻¹)	<u>Surface and Middle</u> ^(d) 5mg/L or 1%-ile of baseline for surface and middle layer (5.85 mg L ⁻¹)
	<u>Bottom</u> 5%-ile of baseline data for bottom layers (5.72 mg L ⁻¹)	<u>Bottom</u> 2mg/L or 1%-ile of baseline data for bottom layer (5.62 mg L ⁻¹)
Turbidity in NTU (Depth-averaged) (a) (c)	95%-ile of baseline data (5.09 NTU), or	99%-ile of baseline data (5.25 NTU), and
	20% exceedance of value at any impact station compared with corresponding data from control station	30% exceedance of value at any impact station compared with corresponding data from control station
Notes:		
a.	"Depth-averaged" is calculated by taking the arithmetic means of reading of all sampled depths.	
b.	For DO, non-compliance of the water quality limits occurs when the monitoring result is lower than the limits.	
c.	For SS and turbidity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.	
d.	The Action and Limit Level for DO for surface and middle layer were calculated from the combined pool of baseline surface layer data and baseline middle layer data.	

3.3.4 Event and Action Plan

The Event and Action Plan for water quality monitoring which was stipulated in *Updated EM&A Manual* is presented in *Table 3.5*.

Table 3.5 *Event Action Plan for Water Quality*

Event	Contractor
Action Level	Step 1 - repeat sampling event.
Exceedance	Step 2 - Inform EPD and AFCD and confirm notification of the non-compliance in writing;
	Step 3 - discuss with cable installation contractor the most appropriate method of reducing suspended solids during cable installation (e.g. reduce cable laying speed/ volume of water used during installation.
	Step 4 - repeat measurements after implementation of mitigation for confirmation of compliance.
	Step 5 - if non-compliance continues, increase measures in Step 3 and repeat measurements in Step 3. If non-compliance occurs a third time, suspend cable laying operations.
Limit Level	Undertake Steps 1-4 immediately, if further non-compliance
Exceedance	continues at the Limit Level, suspend cable laying operations until an effective solution is identified.

A total of five monitoring events were scheduled in the reporting period from 26 January to 1 February 2014 (*Annex A*). No impact monitoring works were conducted from 31 January to 1 February 2014 inclusive due to the Chinese New Year Holiday and no cable installation works being conducted.

Continuous water sampling was taken at the impact monitoring stations in Zone A at approximately 4-hour intervals (subject to the weather conditions and travelling time between stations) on a daily basis, so collections were made at least four (4) times per day. Monitoring events at all designated monitoring stations within Zone A were performed on schedule. No major activities influencing the water quality were identified during the reporting period.

The results of the impact monitoring and their graphical presentations are included in *Annex D*. No exceedances of Action and/or Limit Levels were recorded. The monitoring results of Turbidity, SS and DO are discussed together as follows.

The levels of depth-averaged Turbidity showed variation throughout the third week impact monitoring (*Figure D1 of Annex D*). The differences of Turbidity levels among the stations (within the same monitoring round on the same monitoring day) were recorded to stay within a limited range of 1 NTU.

Levels of depth-averaged SS measured during the third week impact monitoring showed fluctuation with time (*Figure D1 of Annex D*). Some differences of SS levels among the stations were recorded during the monitoring period but no exceedances of SS Action and/or Limit Levels were recorded during the reporting period.

The overall levels of DO at all the water depths (surface, mid-depth and bottom) during the third week impact monitoring were of similar magnitude at all the stations (*Figure D2-D3 of Annex D*). Minor fluctuations of DO levels at all water depths were detected during the reporting period. Minor differences of DO levels among the stations were also recorded at all water depths.

In general, the water quality of Zone A was stable throughout each sampling day. The overall Turbidity, SS and DO levels at the impact stations were of similar magnitude to the measurements taken at the control stations which were located far from the area of cable installation works and wouldn't be affected by the repair works. Given this information, any variation amongst the impact monitoring measurements are considered to be natural background variation rather caused by the Project cable installation works.

5 ENVIRONMENTAL NON-CONFORMANCES

5.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

No exceedances of the Action and Limit Levels were recorded during the reporting period.

5.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance events were recorded during the reporting period.

5.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaints were received during the reporting period.

5.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

No summons or prosecution on environmental matters were received during the reporting period.

6 FUTURE KEY ISSUES

6.1 KEY ISSUES FOR THE COMING REPORTING PERIOD

In the week from 2 to 8 February 2014, the cable installation works to be conducted in Zone A will include:

- Diver inspections (no water jetting work);
- Cable burial works (water jetting work); and
- Equipment stowage (no water jetting work).

Note no cable installation works will be conducted on 2 February 2014 due to Chinese New Year Holiday and the cable installation works will be completed on 5 February 2014.

6.2 IMPACT MONITORING SCHEDULE FOR THE COMING REPORTING PERIOD

Impact water quality monitoring is scheduled to be carried out in parallel with the cable installation works in Zone A from from 3 to 5 February 2014 inclusive. No impact monitoring works will be conducted on 2, 6, 7, and 8 February 2014 in accordance with cable installation work schedule discussed in *Section 6.1*.

This **2014 Third Weekly Impact Monitoring Report** presents the results and findings of impact water quality monitoring undertaken in Zone A during the period from 26 January to 1 February 2014 in accordance with the *Updated EM&A Manual* and the requirements under Environmental Permit (EP - 433/2011) for the Project.

No exceedances of Action and/or Limit Levels were recorded during the impact water quality monitoring period. No complaints or summons/prosecutions were received either during the reporting period.

Water quality in Zone A was generally stable throughout the reporting period. Levels of Turbidity, SS and DO levels showed fluctuation over time during the reporting period. In general, the overall water quality at the impact stations was found to be similar to that at the control stations.

It is concluded that no deterioration of water quality was observed during the reporting period and hence the effect of the Project cable installation works on water quality at the Project site was considered to be negligible.

Annex A

Impact Water Quality Monitoring Schedule

Asia Submarine-cable Express (ASE) – Tseung Kwan O
Time Schedule for Impact Water Quality Monitoring (WQM)
12 January to 05 February 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
12 / 1 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	13 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	14 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	15 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	16 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	17 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	18 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)
19 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	20 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	21 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	22 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	23 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	24 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	25 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)
26 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	27 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	28 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	29 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	30 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	31	1 / 2
2	3 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	4 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)	5 <u>WQM</u> (07:00-11:00) (11:00-15:00) (15:00-19:00) (19:00-23:00)			

Annex B

Calibration Reports of Multi-parameter Sensor



Performance Check of Turbidity Meter

Equipment Ref. No. : ET/0505/010 Manufacturer : HACH

Model No. : 2100Q Serial No. : 11110 C 014260

Date of Calibration : 07/01/2014 Due Date : 06/04/2014

Gelex Vial Std	Theoretical Value (NTU)	Measured Value (NTU)	Difference %
0-10 NTU	5	5.11	2.18
10-100 NTU	50	51.1	2.18
100-1000 NTU	550	568	3.22

Acceptance Criteria

Difference : -5 % to 5%

The turbidity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by :

Approved by :



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : <u>ET/EW/008/006</u>	Manufacturer : <u>YSI</u>
Model No. : <u>Pro 2030</u>	Serial No. : <u>12A 100554</u>
Date of Calibration : <u>19/12/2013</u>	Calibration Due Date : 18/03/2013 <u>18/03/2014</u> <i>As 19/12/2013</i>

Temperature Verification

Ref. No. of Reference Thermometer : ET/0521/008
Ref. No. of Water Bath : ---

		Temperature (°C)		
Reference Thermometer reading	Measured	19.9	Corrected	19.6
DO Meter reading	Measured	19.4	Difference	0.2

Standardization of sodium thiosulphate (Na₂S₂O₃) solution

Reagent No. of Na ₂ S ₂ O ₃ titrant	CPE/012/4.5/001/8	Reagent No. of 0.025N K ₂ Cr ₂ O ₇	CPE/012/4.4/001/23
		Trial 1	Trial 2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)		1.00	12.00
Final Vol. of Na ₂ S ₂ O ₃ (ml)		11.55	22.50
Vol. of Na ₂ S ₂ O ₃ used (ml)		10.55	10.50
Normality of Na ₂ S ₂ O ₃ solution (N)		0.02370	0.02381
Average Normality (N) of Na ₂ S ₂ O ₃ solution (N)		0.02376	
Acceptance criteria, Deviation		Less than ± 0.001N	

Calculation: Normality of Na₂S₂O₃, N = 0.25 / ml Na₂S₂O₃ used

Lineality Checking

Determination of dissolved oxygen content by Winkler Titration *

Purging Time (min)	2		5		10	
Trial	1	2	1	2	1	2
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.30	22.70	0.00	8.40	13.20
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.30	22.70	30.80	8.40	13.20	18.10
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.30	11.40	8.10	8.40	4.80	4.90
Dissolved Oxygen (DO), mg/L	7.21	7.27	5.17	5.36	3.06	3.13
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: DO (mg/L) = V x N x 8000/298

Purging time, min	DO meter reading, mg/L			Winkler Titration result *, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.10	7.30	7.20	7.21	7.27	7.24	0.55
5	5.14	5.50	5.32	5.17	5.36	5.27	0.94
10	3.09	3.31	3.29	3.06	3.13	3.10	5.95
Linear regression coefficient				0.9999			



Internal Calibration Report of Dissolved Oxygen Meter

Zero Point Checking

DO meter reading, mg/L	0.00
------------------------	------

Salinity Checking

Reagent No. of NaCl (10ppt)	CPE/012/4.7/002/13	Reagent No. of NaCl (30ppt)	CPE/012/4.8/002/13
-----------------------------	--------------------	-----------------------------	--------------------

Determination of dissolved oxygen content by Winkler Titration **

Salinity (ppt)	10		30	
	1	2	1	2
Trial				
Initial Vol. of Na ₂ S ₂ O ₃ (ml)	0.00	11.80	24.10	35.20
Final Vol. of Na ₂ S ₂ O ₃ (ml)	11.80	24.10	35.20	46.50
Vol. (V) of Na ₂ S ₂ O ₃ used (ml)	11.80	12.30	11.10	11.30
Dissolved Oxygen (DO), mg/L	7.53	7.85	7.08	7.21
Acceptance criteria, Deviation	Less than + 0.3mg/L		Less than + 0.3mg/L	

Calculation: $DO (mg/L) = V \times N \times 8000/298$

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result**, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.55	7.89	7.72	7.53	7.85	7.69	0.39
30	7.04	7.16	7.1	7.08	7.21	7.15	0.70

Acceptance Criteria

- (1) Difference between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : >0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies # / ~~does not comply~~ # with the specified requirements and is deemed acceptable # / unacceptable # for use.

Delete as appropriate

Calibrated by

:

Approved by :



Performance Check of Salinity Meter

Equipment Ref. No. : ET/EW/008/006 Manufacturer : YSI

Model No. : Pro 2030 Serial No. : 12A 100554

Date of Calibration : 19/12/2013 Due Date : 18/03/2014

Ref. No. of Salinity Standard used (30ppt)

S/001/5

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30.0	30.8	2.63

Acceptance Criteria

Difference : <10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by : 

Approved by : 

Annex C

QA/QC Results for Suspended Solids Testing

QA/QC Results of Laboratory Analysis of Total Suspended Solids

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
1/26/2014	92.2	C1-S1(0700)	4.88	G1-S2 (0700)	105.8
	102.8	G1-M1(0700)	4.44	G3-M2 (0700)	100
	100	G3-B1 (0700)	0.00	G2-B2(0700)	93.6
	102.3	S3-S1 (0700)	4.44	S3-B2 (0700)	103.8
	94.1	S1-M1 (1100)	0.00	F1-M2 (1100)	100.0
	97.6	F1-B1 (11:00)	4.88	S2-B1 (1100)	95.8
	102.1	G2-S1 (1100)	0.00	S3-B2 (1100)	108.2
	102.9	C1-S1(0700)	4.88	G1-S2 (0700)	102.0
	92.8	G1-M1(0700)	0.00	G3-M2 (0700)	100.0
	104.2	G3-B1 (0700)	4.65	G2-B2(0700)	100.0
	93.8	S3-S1 (0700)	4.88	S3-B2 (0700)	105.8
	101.2	S1-M1 (1100)	4.88	F1-M2 (1100)	98.0
	106.5	F1-B1 (11:00)	0.00	S2-B1 (1100)	102.0
104.5	G2-S1 (1100)	0.00	S3-B2 (1100)	102.0	

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
1/27/2014	101.9	C1-S1(0700)	4.44	G1-S2 (0700)	102.1
	99.4	G1-M1(0700)	3.92	G3-M2 (0700)	92.2
	102.2	G3-B1 (0700)	3.77	G2-B2(0700)	93.9
	102.8	S3-S1 (0700)	0.00	S3-B2 (0700)	98.1
	104.1	S1-M1 (1100)	4.44	F1-M2 (1100)	97.9
	95.7	F1-B1 (11:00)	3.39	S2-B1 (1100)	92.2
	100.2	G2-S1 (1100)	5.13	S3-B2 (1100)	106.4
	92.5	C1-S1(0700)	0.00	G1-S2 (0700)	97.9
	102.0	G1-M1(0700)	3.64	G3-M2 (0700)	94.0
	101.6	G3-B1 (0700)	0.00	G2-B2(0700)	98.0
	106.4	S3-S1 (0700)	4.26	S3-B2 (0700)	100.0
	96.4	S1-M1 (1100)	4.26	F1-M2 (1100)	94.1
	102.0	F1-B1 (11:00)	6.67	S2-B1 (1100)	102.0
103.4	G2-S1 (1100)	4.88	S3-B2 (1100)	100.0	

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
1/28/2014	104.7	C1-S1(0700)	4.26	G1-S2 (0700)	102.0
	105.4	G1-M1(0700)	3.77	G3-M2 (0700)	97.9
	98.2	G3-B1 (0700)	4.08	G2-B2(0700)	91.8
	97.6	S3-S1 (0700)	4.08	S3-B2 (0700)	91.7
	100.8	S1-M1 (1100)	0.00	F1-M2 (1100)	94.1
	95.5	F1-B1 (11:00)	0.00	S2-B1 (1100)	91.7
	102.8	G2-S1 (1100)	0.00	S3-B2 (1100)	96.0
	95.0	C1-S1(0700)	5.41	G1-S2 (0700)	100.0
	102.9	G1-M1(0700)	0.00	G3-M2 (0700)	103.8
	102.5	G3-B1 (0700)	0.00	G2-B2(0700)	100.0
	102.5	S3-S1 (0700)	0.00	S3-B2 (0700)	103.8
	94.5	S1-M1 (1100)	0.00	F1-M2 (1100)	94.2
	103.5	F1-B1 (11:00)	0.00	S2-B1 (1100)	96.2
	103.6	G2-S1 (1100)	0.00	S3-B2 (1100)	94.3

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
1/29/2014	104.2	C1-S1(0700)	3.92	G1-S2 (0700)	100.0
	96.1	G1-M1(0700)	0.00	G3-M2 (0700)	97.9
	99	G3-B1 (0700)	4.08	G2-B2(0700)	100
	100.8	S3-S1 (0700)	5.41	S3-B2 (0700)	100.0
	98.5	S1-M1 (1100)	4.26	F1-M2 (1100)	100.0
	104.7	F1-B1 (11:00)	3.64	S2-B1 (1100)	93.9
	106.8	G2-S1 (1100)	4.88	S3-B2 (1100)	92.9
	101.8	C1-S1(0700)	0.00	G1-S2 (0700)	106.3
	103.6	G1-M1(0700)	4.08	G3-M2 (0700)	102.0
	95.8	G3-B1 (0700)	3.92	G2-B2(0700)	100.0
	95.9	S3-S1 (0700)	4.26	S3-B2 (0700)	106.0
	97.6	S1-M1 (1100)	0.00	F1-M2 (1100)	101.9
	103.0	F1-B1 (11:00)	3.92	S2-B1 (1100)	102.0
	99.8	G2-S1 (1100)	4.44	S3-B2 (1100)	98.1

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Sampling Date	QC Sample	Sample Duplicate		Sample Spike	
	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
1/30/2014	101	C1-S1(0700)	4.65	G1-S2 (0700)	96.1
	94.4	G1-M1(0700)	5.41	G3-M2 (0700)	104
	107.8	G3-B1 (0700)	5.13	G2-B2(0700)	92.3
	99.4	S3-S1 (0700)	0.00	S3-B2 (0700)	93.6
	95.3	S1-M1 (1100)	0.00	F1-M2 (1100)	104.2
	99.2	F1-B1 (11:00)	5.71	S2-B1 (1100)	98.0
	106.6	G2-S1 (1100)	5.71	S3-B2 (1100)	100.0
	94.3	C1-S1(0700)	0.00	G1-S2 (0700)	104.3
	96.3	G1-M1(0700)	0.00	G3-M2 (0700)	97.9
	99.4	G3-B1 (0700)	0.00	G2-B2(0700)	98.0
	100.6	S3-S1 (0700)	0.00	S3-B2 (0700)	94.1
	98.0	S1-M1 (1100)	5.13	F1-M2 (1100)	106.1
	103.9	F1-B1 (11:00)	4.88	S2-B1 (1100)	97.9
	100.0	G2-S1 (1100)	0.00	S3-B2 (1100)	101.9

Note: (*) % Recovery of QC sample should be between 80% to 120%.
 (#) % Error of Sample Duplicate should be between 0% to 10%.
 (@) % Recovery of Sample Spike should be between 80% to 120%.
 (**) % Error of Sample Duplicate >10% but invalid due to sample results less than MDL.

Annex D

Impact Water Quality Monitoring Results

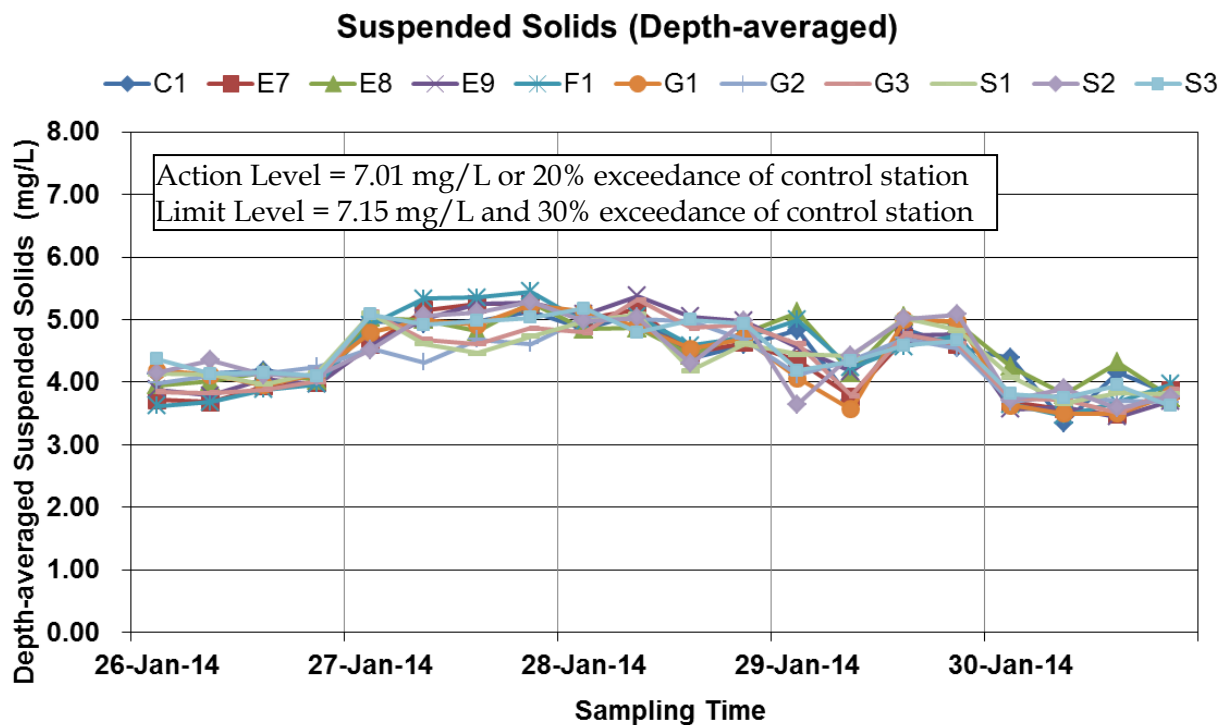
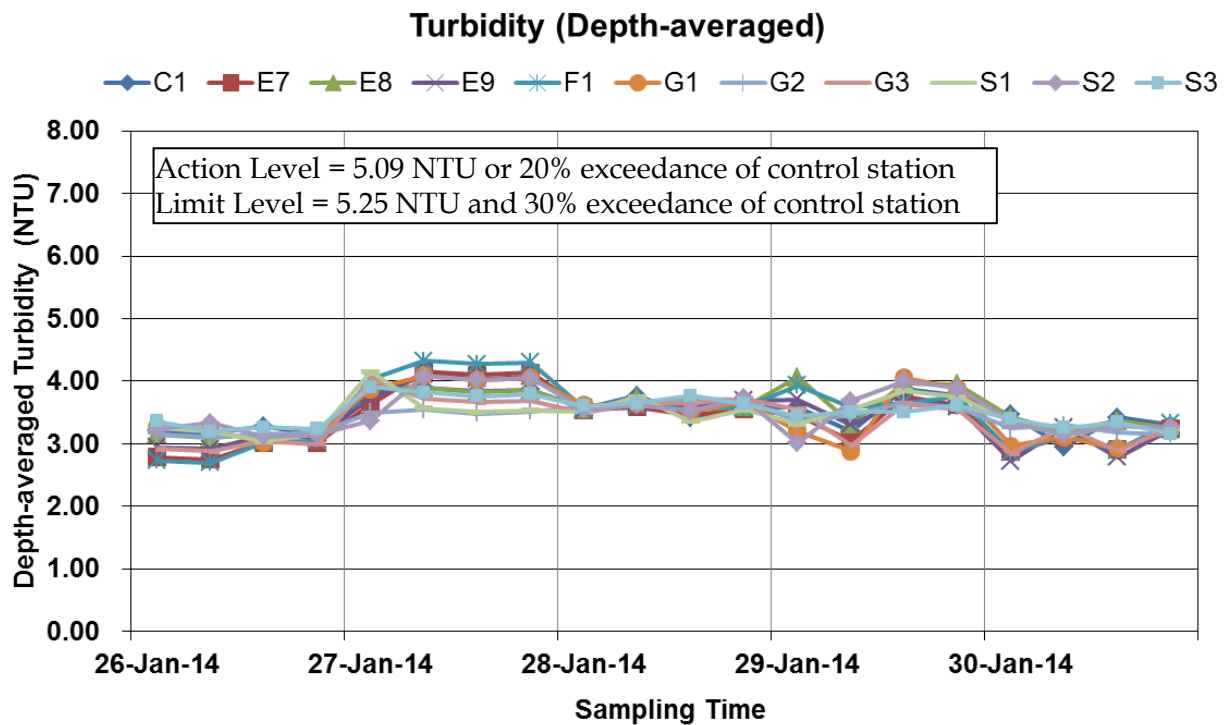


Figure D1 Depth-averaged Turbidity (NTU) and Suspended Solids (mg/L) of water column measured during the impact monitoring from 26 to 30 January 2014 (3rd Week) for Zone A



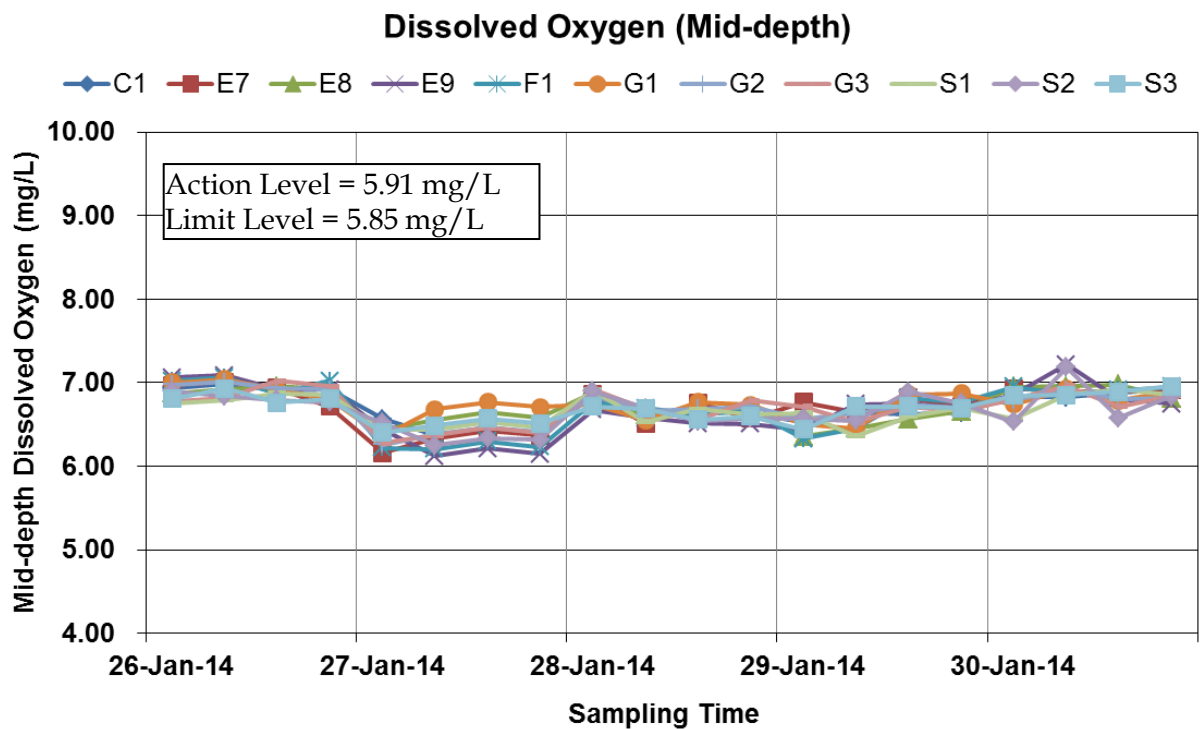
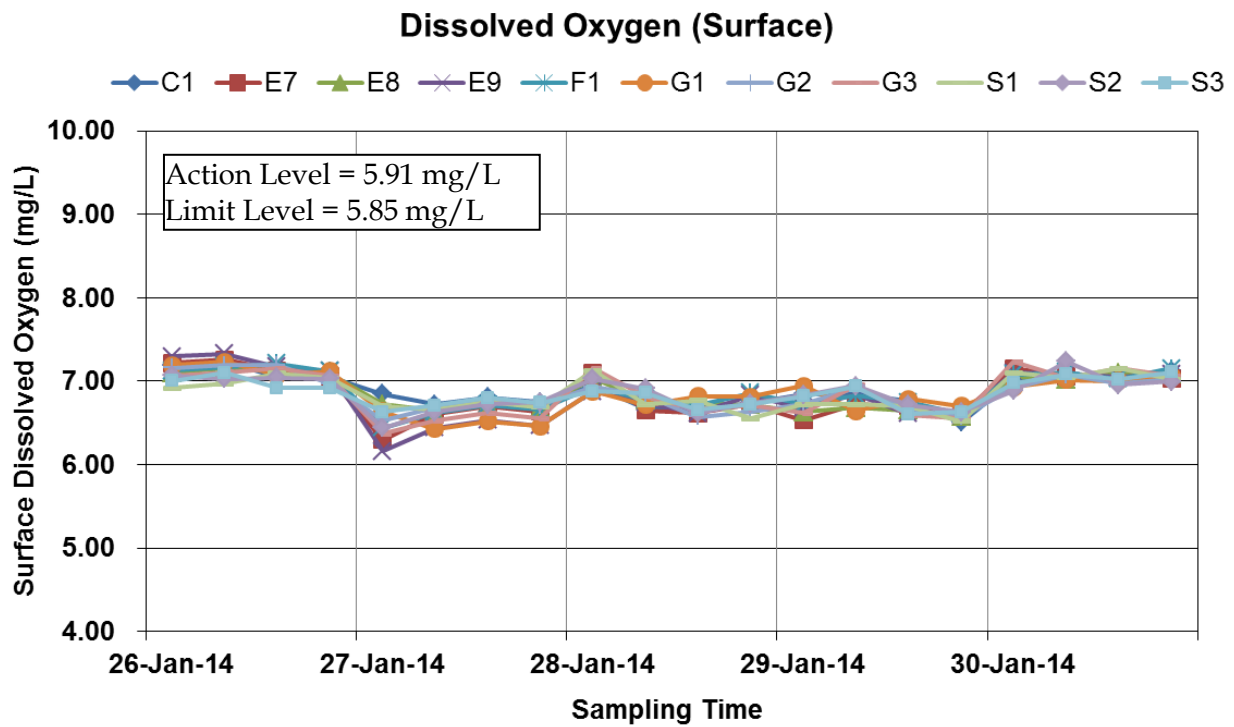


Figure D2 Dissolved Oxygen (mg/L) at surface and mid-depth of water column measured during the impact monitoring from 26 to 30 January 2014 (3rd Week) for Zone A



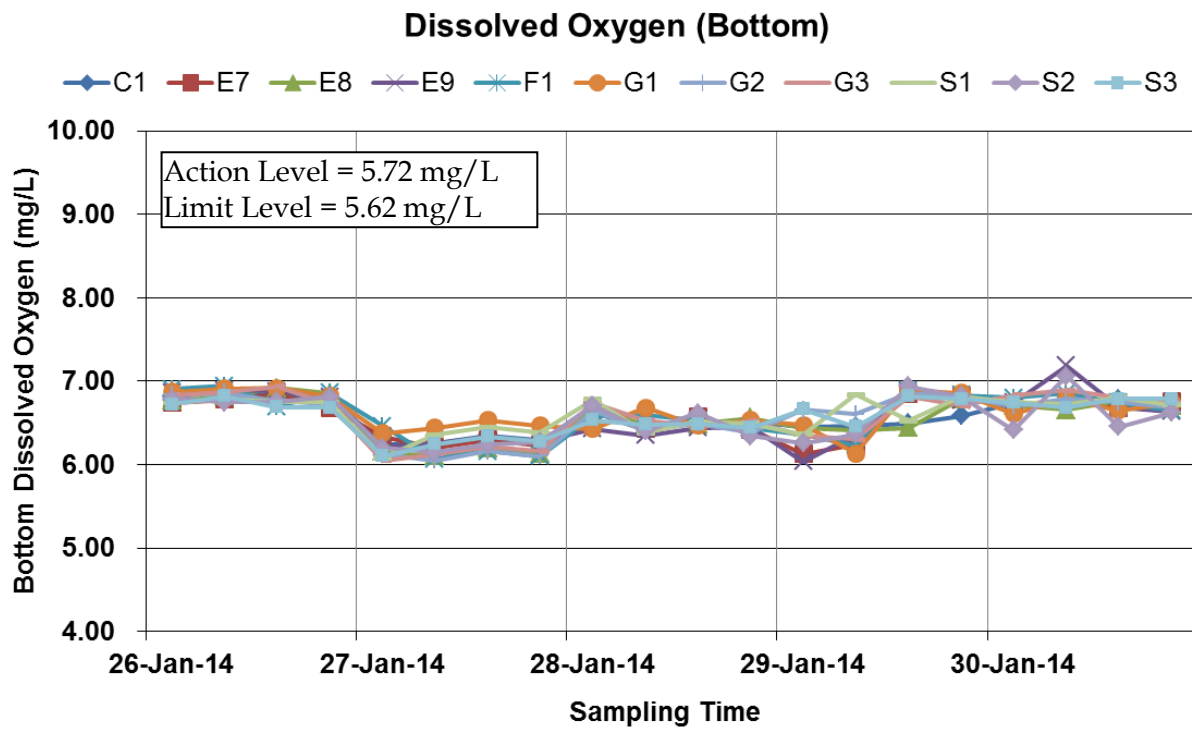


Figure D3 Dissolved Oxygen (mg/L) at bottom of water column measured during the impact monitoring from 26 to 30 January 2014 (3rd Week) for Zone A



Date: 26-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0720	36.2	W	0.3	Surface	16.9	17.0	17.0	29.9	30.0	30.0	7.2	7.2	7.2	89.0	89.1	89.1	2.9	3.0	3.0		4.0	3.8	3.9	
					Middle	17.2	17.1	17.2	30.2	30.1	30.2	6.9	7.0	6.9	86.1	86.3	86.2	3.3	3.3	3.3	3.2	4.3	4.2	4.3	4.1
					Bottom	17.2	17.3	17.3	30.2	30.3	30.3	6.8	6.8	6.8	85.0	85.2	85.1	3.4	3.4	3.4		4.1	4.4	4.3	
E8	0725-0742	19.4	W	0.4	Surface	17.0	16.9	17.0	30.0	29.9	30.0	7.1	7.1	7.1	87.8	88.0	87.9	2.9	2.8	2.8		3.6	3.7	3.7	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	85.5	85.7	85.6	3.3	3.3	3.3	3.1	3.9	4.0	4.0	4.0
					Bottom	17.2	17.3	17.3	30.2	30.3	30.3	6.8	6.8	6.8	84.2	84.5	84.4	3.3	3.3	3.3		4.2	4.3	4.3	
S1	0747-0803	10.8	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	6.9	6.9	6.9	85.9	85.1	85.5	3.0	3.0	3.0		3.8	3.9	3.9	
					Middle	17.3	17.2	17.3	30.3	30.2	30.3	6.8	6.7	6.8	84.0	83.8	83.9	3.3	3.4	3.3	3.2	4.1	4.2	4.2	4.1
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.7	6.8	6.7	83.9	84.2	84.1	3.4	3.4	3.4		4.3	4.5	4.4	
G1	0808-0825	11.6	W	0.3	Surface	16.9	17.0	17.0	30.1	30.0	30.1	7.1	7.3	7.2	89.6	89.8	89.7	3.0	3.1	3.0		4.0	3.8	3.9	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	7.0	7.0	7.0	87.3	86.7	87.0	3.4	3.4	3.4	3.3	4.4	4.4	4.4	4.2
					Bottom	17.4	17.3	17.4	30.4	30.3	30.4	6.9	6.9	6.9	85.5	85.9	85.7	3.4	3.4	3.4		4.3	4.2	4.3	
E7	0830-0847	13.2	W	0.4	Surface	16.9	17.0	17.0	29.9	30.0	30.0	7.2	7.2	7.2	89.5	89.3	89.4	2.6	2.6	2.6		3.7	3.5	3.6	
					Middle	17.2	17.1	17.2	30.1	30.0	30.1	7.0	7.0	7.0	86.8	86.6	86.7	2.8	2.8	2.8	2.8	3.6	3.8	3.7	3.7
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.8	6.7	6.7	84.2	83.9	84.1	2.9	3.0	2.9		4.0	3.7	3.9	
F1	0852-0909	12.2	W	0.3	Surface	17.0	16.9	17.0	30.0	30.0	30.0	7.1	7.1	7.1	88.2	88.5	88.4	2.5	2.5	2.5		3.2	3.4	3.3	
					Middle	17.1	17.2	17.2	30.2	30.1	30.2	7.0	7.0	7.0	87.1	87.5	87.3	2.7	2.7	2.7	2.7	3.7	3.5	3.6	3.6
					Bottom	17.4	17.3	17.4	30.3	30.4	30.4	6.9	6.9	6.9	86.3	85.8	86.1	3.0	3.0	3.0		4.0	3.9	4.0	
G3	0914-0932	15.6	W	0.3	Surface	17.0	17.0	17.0	30.1	30.0	30.1	7.1	7.1	7.1	87.8	87.5	87.7	2.6	2.6	2.6		3.5	3.7	3.6	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.8	6.8	6.8	84.2	84.3	84.3	3.0	3.0	3.0	2.9	3.9	4.0	4.0	3.9
					Bottom	17.3	17.4	17.4	30.4	30.3	30.4	6.8	6.8	6.8	85.0	85.3	85.2	3.1	3.1	3.1		4.2	3.8	4.0	
E9	0937-0955	18.4	W	0.2	Surface	17.1	17.0	17.1	30.0	30.1	30.1	7.3	7.3	7.3	90.6	90.4	90.5	2.7	2.7	2.7		3.5	3.6	3.6	
					Middle	17.3	17.2	17.3	30.2	30.3	30.3	7.1	7.1	7.1	87.7	87.9	87.8	3.0	3.0	3.0	2.9	3.9	4.1	4.0	3.9
					Bottom	17.4	17.5	17.5	30.4	30.3	30.4	6.9	6.9	6.9	85.5	85.6	85.6	3.2	3.1	3.1		4.2	4.0	4.1	
S2	1000-1017	10.8	W	0.3	Surface	17.0	17.1	17.1	29.9	30.0	30.0	7.1	7.1	7.1	87.7	87.5	87.6	3.1	3.2	3.1		4.1	4.2	4.2	
					Middle	17.2	17.1	17.2	30.2	30.1	30.2	6.9	6.9	6.9	86.0	85.6	85.8	3.2	3.2	3.2	3.2	4.1	4.0	4.1	4.2
					Bottom	17.2	17.3	17.3	30.2	30.3	30.3	6.8	6.8	6.8	84.5	84.7	84.6	3.3	3.3	3.3		4.2	4.3	4.3	
G2	1022-1038	13.6	W	0.4	Surface	17.0	16.9	17.0	30.0	30.1	30.1	7.2	7.2	7.2	88.5	88.8	88.7	2.9	3.0	2.9		3.8	3.9	3.9	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	7.0	7.0	7.0	86.8	86.5	86.7	3.2	3.2	3.2	3.1	3.9	4.1	4.0	4.0
					Bottom	17.4	17.3	17.4	30.4	30.4	30.4	6.8	6.8	6.8	85.0	85.2	85.1	3.3	3.3	3.3		4.0	4.2	4.1	
S3	1043-1100	11.2	W	0.2	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.0	7.0	86.8	86.5	86.7	3.3	3.3	3.3		4.4	4.2	4.3	
					Middle	17.2	17.1	17.2	30.1	30.2	30.2	6.8	6.8	6.8	84.8	84.5	84.7	3.4	3.4	3.4	3.4	4.4	4.3	4.4	4.4
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.9	83.7	83.8	3.4	3.5	3.4		4.5	4.4	4.5	

Remark or Observation:

Note: * Average

** Depth Average

Date: 26-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1445-1500	36.4	W	0.4	Surface	17.1	17.0	17.1	30.1	30.2	30.2	7.2	7.3	7.2	89.7	90.0	89.9	2.9	2.9	2.9		3.9	4.0	4.0	
					Middle	17.1	17.2	17.2	30.2	30.1	30.2	7.0	7.0	7.0	86.8	87.2	87.0	3.3	3.3	3.3	3.2	4.1	4.3	4.2	4.1
					Bottom	17.3	17.4	17.4	30.4	30.4	30.4	6.9	6.9	6.9	85.6	85.9	85.8	3.3	3.3	3.3		4.3	4.2	4.3	
E8	1423-1440	19.6	W	0.2	Surface	17.1	17.1	17.1	30.1	30.1	30.1	7.1	7.2	7.2	88.6	88.9	88.8	2.8	2.8	2.8		3.9	3.7	3.8	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.9	6.9	6.9	86.0	85.9	86.0	3.2	3.3	3.2	3.1	3.9	4.0	4.0	4.0
					Bottom	17.4	17.4	17.4	30.4	30.3	30.4	6.8	6.8	6.8	85.0	85.2	85.1	3.3	3.3	3.3		4.2	4.4	4.3	
S1	1400-1418	11.2	W	0.3	Surface	17.1	17.2	17.2	30.1	30.2	30.2	7.0	7.0	7.0	86.6	86.4	86.5	2.9	3.0	3.0		3.8	3.8	3.8	
					Middle	17.3	17.2	17.3	30.3	30.2	30.3	6.8	6.8	6.8	84.7	84.5	84.6	3.3	3.3	3.3	3.2	4.2	4.1	4.2	4.1
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.8	6.8	6.8	84.5	84.8	84.7	3.3	3.3	3.3		4.3	4.5	4.4	
G1	1337-1355	11.8	W	0.3	Surface	17.0	17.1	17.1	30.1	30.1	30.1	7.2	7.3	7.2	89.0	90.4	89.7	3.0	3.0	3.0		3.7	4.0	3.9	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	7.1	7.0	7.0	87.8	87.3	87.6	3.3	3.4	3.4	3.2	4.2	4.4	4.3	4.1
					Bottom	17.4	17.5	17.5	30.3	30.4	30.4	6.9	6.9	6.9	86.0	86.4	86.2	3.3	3.4	3.3		4.1	4.3	4.2	
E7	1315-1332	13.6	W	0.2	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.3	7.3	7.3	90.2	89.9	90.1	2.6	2.6	2.6		3.2	3.4	3.3	
					Middle	17.2	17.1	17.2	30.1	30.2	30.2	7.0	7.0	7.0	87.3	87.1	87.2	2.8	2.8	2.8	2.7	3.8	3.9	3.9	3.7
					Bottom	17.3	17.4	17.4	30.2	30.3	30.3	6.8	6.8	6.8	84.7	84.4	84.6	2.9	2.9	2.9		4.0	3.8	3.9	
F1	1253-1310	12.4	W	0.4	Surface	17.1	17.1	17.1	30.1	30.2	30.2	7.2	7.2	7.2	88.9	89.1	89.0	2.5	2.5	2.5		3.5	3.4	3.5	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	7.1	7.1	7.1	87.7	87.9	87.8	2.6	2.6	2.6	2.7	3.7	3.6	3.7	3.7
					Bottom	17.4	17.4	17.4	30.4	30.3	30.4	7.0	6.9	6.9	86.8	86.5	86.7	3.0	3.0	3.0		4.0	3.9	4.0	
G3	1230-1248	15.8	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.1	7.1	7.1	88.4	88.0	88.2	2.6	2.6	2.6		3.6	3.5	3.6	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.8	6.8	6.8	84.8	84.9	84.9	3.0	3.0	3.0	2.9	3.8	4.0	3.9	3.8
					Bottom	17.4	17.3	17.4	30.4	30.4	30.4	6.9	6.9	6.9	85.5	85.8	85.7	3.1	3.0	3.1		4.1	4.0	4.1	
E9	1208-1225	18.6	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.3	7.3	7.3	91.0	90.8	90.9	2.6	2.6	2.6		3.4	3.3	3.4	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	7.1	7.1	7.1	88.1	88.3	88.2	3.0	3.0	3.0	2.9	3.9	3.9	3.9	3.8
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.9	6.9	6.9	85.8	86.0	85.9	3.1	3.1	3.1		4.0	4.2	4.1	
S2	1146-1203	11.4	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.0	7.0	87.4	87.3	87.4	3.2	3.2	3.2		4.0	4.2	4.1	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	6.9	6.8	6.8	85.2	84.9	85.1	3.3	3.4	3.4	3.3	4.4	4.5	4.5	4.4
					Bottom	17.4	17.3	17.4	30.4	30.3	30.4	6.8	6.7	6.8	84.2	84.0	84.1	3.4	3.4	3.4		4.6	4.4	4.5	
G2	1123-1141	13.8	W	0.3	Surface	17.0	17.1	17.1	30.1	30.0	30.1	7.2	7.2	7.2	89.1	89.4	89.3	2.9	2.9	2.9		3.8	3.8	3.8	
					Middle	17.2	17.1	17.2	30.2	30.2	30.2	7.0	7.0	7.0	87.3	87.8	87.6	3.2	3.2	3.2	3.1	4.2	4.1	4.2	4.1
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.9	6.9	6.9	85.4	85.6	85.5	3.3	3.3	3.3		4.4	4.3	4.4	
S3	1100-1118	11.2	W	0.4	Surface	17.1	17.0	17.1	30.0	30.1	30.1	7.1	7.1	7.1	88.3	88.0	88.2	3.1	3.1	3.1		4.0	4.1	4.1	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	86.3	86.2	86.3	3.2	3.2	3.2	3.2	4.2	4.1	4.2	4.1
					Bottom	17.3	17.2	17.3	30.3	30.3	30.3	6.8	6.8	6.8	84.9	85.2	85.1	3.3	3.3	3.3		4.2	4.2	4.2	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 26-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1500-1517	35.8	E	0.5	Surface	17.3	17.3	17.3	30.2	30.2	30.2	7.1	7.0	7.1	87.8	87.5	87.7	3.3	3.3	3.3		4.2	4.4	4.3	
					Middle	17.3	17.3	17.3	30.2	30.1	30.2	6.9	6.9	6.9	86.0	85.6	85.8	3.3	3.3	3.3	3.3	4.2	4.1	4.2	4.2
					Bottom	17.3	17.4	17.4	30.2	30.3	30.3	6.9	6.8	6.8	85.1	84.6	84.9	3.3	3.2	3.3		4.2	4.0	4.1	
E8	1522-1538	19.4	E	0.5	Surface	17.3	17.3	17.3	30.2	30.2	30.2	7.2	7.1	7.1	88.8	88.3	88.6	3.1	3.0	3.1		4.1	4.0	4.1	
					Middle	17.3	17.2	17.3	30.3	30.2	30.3	7.0	7.0	7.0	86.6	86.3	86.5	3.1	3.1	3.1	3.2	4.2	4.1	4.2	4.2
					Bottom	17.4	17.3	17.4	30.3	30.3	30.3	6.9	6.9	6.9	85.8	86.3	86.1	3.3	3.3	3.3		4.3	4.2	4.3	
S1	1545-1600	11.4	E	0.4	Surface	17.3	17.2	17.3	30.2	30.2	30.2	7.1	7.1	7.1	88.3	88.0	88.2	2.9	2.9	2.9		3.8	3.7	3.8	
					Middle	17.3	17.3	17.3	30.3	30.3	30.3	6.9	6.9	6.9	85.6	85.1	85.4	3.1	3.0	3.0	3.0	4.1	4.0	4.1	4.0
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.8	6.7	6.8	84.2	83.8	84.0	3.2	3.1	3.1		4.2	4.0	4.1	
G1	1605-1620	11.6	E	0.4	Surface	17.3	17.3	17.3	30.2	30.1	30.2	7.1	7.1	7.1	88.1	87.7	87.9	2.9	2.9	2.9		3.7	3.8	3.8	
					Middle	17.3	17.2	17.3	30.3	30.2	30.3	6.9	6.9	6.9	86.2	85.7	86.0	3.0	2.9	2.9	3.0	4.0	3.9	4.0	4.0
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.9	6.9	6.9	85.9	86.2	86.1	3.2	3.2	3.2		4.2	4.1	4.2	
E7	1625-1640	13.2	E	0.3	Surface	17.3	17.3	17.3	30.2	30.1	30.2	7.2	7.1	7.1	88.8	88.3	88.6	2.7	2.7	2.7		3.4	3.6	3.5	
					Middle	17.2	17.3	17.3	30.3	30.2	30.3	6.9	7.0	6.9	86.0	86.3	86.2	3.2	3.2	3.2	3.0	4.1	4.2	4.2	3.9
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.9	6.8	6.8	85.3	84.9	85.1	3.2	3.1	3.2		4.2	4.1	4.2	
F1	1650-1705	12.6	E	0.4	Surface	17.3	17.2	17.3	30.2	30.2	30.2	7.2	7.2	7.2	89.4	89.8	89.6	2.9	2.8	2.9		3.7	3.8	3.8	
					Middle	17.3	17.3	17.3	30.3	30.3	30.3	6.9	6.9	6.9	85.5	85.2	85.4	3.0	3.0	3.0	3.0	3.8	4.0	3.9	3.9
					Bottom	17.4	17.4	17.4	30.4	30.3	30.4	6.7	6.7	6.7	83.4	83.0	83.2	3.2	3.3	3.3		3.9	4.1	4.0	
G3	1710-1725	15.4	E	0.5	Surface	17.3	17.3	17.3	30.2	30.1	30.2	7.2	7.1	7.2	89.1	88.7	88.9	2.9	3.0	2.9		3.4	3.6	3.5	
					Middle	17.3	17.2	17.3	30.3	30.3	30.3	7.0	7.0	7.0	87.1	87.4	87.3	3.1	3.0	3.0	3.0	3.8	4.0	3.9	3.9
					Bottom	17.4	17.3	17.4	30.4	30.4	30.4	6.9	7.0	6.9	86.0	86.4	86.2	3.2	3.1	3.1		4.2	4.3	4.3	
E9	1735-1750	18.4	E	0.4	Surface	17.3	17.2	17.3	30.2	30.2	30.2	7.2	7.2	7.2	89.3	88.9	89.1	2.9	2.9	2.9		3.6	3.7	3.7	
					Middle	17.3	17.3	17.3	30.3	30.3	30.3	6.9	6.9	6.9	86.2	85.7	86.0	3.4	3.3	3.3	3.1	4.1	4.3	4.2	4.1
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.9	6.9	6.9	85.4	85.7	85.6	3.2	3.1	3.2		4.4	4.2	4.3	
S2	1755-1810	11.6	E	0.4	Surface	17.3	17.2	17.3	30.2	30.1	30.2	7.1	7.0	7.0	87.7	87.3	87.5	3.1	3.1	3.1		4.1	4.0	4.1	
					Middle	17.3	17.2	17.3	30.2	30.3	30.3	6.8	6.8	6.8	84.6	84.2	84.4	3.1	3.1	3.1	3.1	4.2	4.0	4.1	4.1
					Bottom	17.3	17.3	17.3	30.3	30.2	30.3	6.8	6.7	6.8	84.1	83.7	83.9	3.2	3.1	3.2		4.3	4.1	4.2	
G2	1815-1830	13.4	E	0.3	Surface	17.2	17.2	17.2	30.1	30.2	30.2	7.2	7.2	7.2	89.2	89.6	89.4	3.1	3.0	3.0		3.9	4.1	4.0	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.9	7.0	6.9	86.0	86.3	86.2	3.2	3.2	3.2	3.2	4.3	4.2	4.3	4.1
					Bottom	17.3	17.3	17.3	30.3	30.3	30.3	6.8	6.8	6.8	83.9	84.2	84.1	3.2	3.2	3.2		4.1	4.2	4.2	
S3	1840-1855	11.4	E	0.3	Surface	17.2	17.2	17.2	30.1	30.1	30.1	6.9	6.9	6.9	86.2	85.7	86.0	3.2	3.2	3.2		4.0	4.2	4.1	
					Middle	17.2	17.3	17.3	30.2	30.2	30.2	6.7	6.8	6.8	83.7	84.2	84.0	3.3	3.3	3.3	3.3	4.3	4.1	4.2	4.2
					Bottom	17.3	17.2	17.3	30.3	30.4	30.4	6.7	6.7	6.7	83.2	82.9	83.1	3.3	3.3	3.3		4.3	4.0	4.2	

Remark or Observation:

Note: * Average

** Depth Average

Date: 26-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	2245-2300	35.4	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	7.0	7.1	7.1	87.4	87.7	87.6	3.1	3.1	3.1		4.0	4.1	4.1	
					Middle	17.2	17.2	17.2	30.2	30.1	30.2	6.9	6.9	6.9	85.7	86.2	86.0	3.1	3.0	3.1	3.1	4.1	3.9	4.0	4.1
					Bottom	17.3	17.2	17.3	30.3	30.3	30.3	6.8	6.8	6.8	84.7	84.3	84.5	3.3	3.2	3.2		4.2	4.1	4.2	
E8	2223-2240	19.6	E	0.4	Surface	17.1	17.1	17.1	30.2	30.1	30.2	7.1	7.1	7.1	88.3	88.0	88.2	3.0	3.1	3.0		4.0	3.9	4.0	
					Middle	17.2	17.1	17.2	30.2	30.2	30.2	6.9	6.9	6.9	86.1	85.7	85.9	3.2	3.1	3.2	3.1	3.8	4.0	3.9	4.0
					Bottom	17.3	17.3	17.3	30.4	30.3	30.4	6.9	6.8	6.9	85.4	85.0	85.2	3.2	3.2	3.2		4.3	4.2	4.3	
S1	2200-2218	11.8	E	0.3	Surface	17.1	17.1	17.1	30.3	30.3	30.3	7.0	7.1	7.0	87.2	87.6	87.4	3.1	3.0	3.0		4.1	4.0	4.1	
					Middle	17.1	17.2	17.2	30.3	30.2	30.3	6.9	6.8	6.9	85.7	85.2	85.5	3.2	3.3	3.3	3.2	4.2	4.3	4.3	4.2
					Bottom	17.2	17.3	17.3	30.3	30.2	30.3	6.8	6.7	6.8	84.0	83.7	83.9	3.2	3.2	3.2		4.0	4.3	4.2	
G1	2137-2155	11.8	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	7.1	7.1	7.1	88.7	88.2	88.5	3.0	3.1	3.0		3.9	3.9	3.9	
					Middle	17.2	17.2	17.2	30.3	30.3	30.3	6.8	6.8	6.8	84.7	84.3	84.5	3.2	3.2	3.2	3.2	4.1	4.3	4.2	4.1
					Bottom	17.2	17.3	17.3	30.3	30.3	30.3	6.8	6.8	6.8	85.0	84.5	84.8	3.3	3.3	3.3		4.4	4.2	4.3	
E7	2115-2132	13.6	E	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	7.1	7.0	7.1	87.8	87.4	87.6	2.9	2.9	2.9		3.7	3.9	3.8	
					Middle	17.2	17.1	17.2	30.2	30.3	30.3	6.7	6.7	6.7	83.5	83.1	83.3	3.1	3.1	3.1	3.0	4.1	4.0	4.1	4.0
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.7	6.7	6.7	83.2	82.9	83.1	3.1	3.1	3.1		4.0	4.2	4.1	
F1	2053-2110	12.8	E	0.5	Surface	17.1	17.0	17.1	30.1	30.2	30.2	7.1	7.1	7.1	88.1	88.6	88.4	2.9	2.9	2.9		3.9	3.8	3.9	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	7.0	7.0	7.0	87.0	87.4	87.2	3.0	3.0	3.0	3.0	3.8	3.8	3.8	4.0
					Bottom	17.2	17.3	17.3	30.3	30.2	30.3	6.9	6.8	6.9	85.5	85.0	85.3	3.3	3.3	3.3		4.2	4.3	4.3	
G3	2030-2048	15.8	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	7.1	7.1	7.1	87.9	87.5	87.7	2.7	2.8	2.8		3.8	3.9	3.9	
					Middle	17.1	17.1	17.1	30.2	30.1	30.2	7.0	6.9	7.0	86.6	86.1	86.4	3.1	3.0	3.1	3.0	4.1	4.0	4.1	4.0
					Bottom	17.2	17.2	17.2	30.3	30.3	30.3	6.7	6.7	6.7	83.7	83.2	83.5	3.2	3.2	3.2		4.2	4.1	4.2	
E9	2008-2025	18.8	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	7.1	7.1	7.1	88.2	88.7	88.5	3.0	3.0	3.0		3.8	3.9	3.9	
					Middle	17.1	17.2	17.2	30.3	30.3	30.3	6.9	6.9	6.9	86.2	85.7	86.0	3.0	3.1	3.1	3.1	4.1	4.0	4.1	4.0
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.8	6.8	6.8	84.9	84.5	84.7	3.2	3.3	3.2		3.9	4.1	4.0	
S2	1946-2003	11.4	E	0.5	Surface	17.1	17.2	17.2	30.1	30.2	30.2	7.1	7.0	7.0	87.5	87.0	87.3	3.1	3.1	3.1		4.0	4.0	4.0	
					Middle	17.2	17.2	17.2	30.2	30.3	30.3	6.8	6.8	6.8	83.9	84.2	84.1	3.2	3.2	3.2	3.1	4.2	4.3	4.3	4.1
					Bottom	17.3	17.2	17.3	30.3	30.3	30.3	6.8	6.8	6.8	84.5	84.8	84.7	3.2	3.1	3.1		4.1	4.0	4.1	
G2	1923-1941	13.8	E	0.4	Surface	17.2	17.1	17.2	30.1	30.1	30.1	7.0	7.0	7.0	86.8	86.3	86.6	3.1	3.1	3.1		4.0	4.1	4.1	
					Middle	17.2	17.3	17.3	30.3	30.3	30.3	6.9	6.9	6.9	85.7	86.2	86.0	3.3	3.2	3.3	3.2	4.5	4.3	4.4	4.3
					Bottom	17.3	17.3	17.3	30.3	30.2	30.3	6.7	6.7	6.7	83.7	83.2	83.5	3.2	3.3	3.2		4.4	4.2	4.3	
S3	1900-1918	11.6	E	0.4	Surface	17.2	17.2	17.2	30.1	30.1	30.1	6.9	6.9	6.9	85.6	86.1	85.9	3.1	3.1	3.1		4.1	3.9	4.0	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.8	6.8	6.8	84.7	84.3	84.5	3.3	3.3	3.3	3.2	3.9	4.2	4.1	4.1
					Bottom	17.2	17.3	17.3	30.2	30.3	30.3	6.7	6.7	6.7	82.9	83.2	83.1	3.4	3.3	3.3		4.3	4.2	4.3	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 27-Jan-14
 Weather: Cloudy
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0716	36.0	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.9	6.8	6.8	85.1	84.4	84.8	3.3	3.3	3.3		4.6	4.6	4.6	
					Middle	16.7	16.6	16.7	29.9	29.9	29.9	6.6	6.5	6.6	81.6	81.6	81.6	4.1	4.2	4.1	3.8	5.1	5.2	5.2	5.0
					Bottom	16.5	16.5	16.5	29.8	29.9	29.9	6.2	6.3	6.2	77.0	77.5	77.3	4.1	4.1	4.1		5.2	5.2	5.2	
E8	0724-0740	18.2	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.7	6.7	6.7	83.4	82.9	83.2	3.3	3.4	3.3		4.7	4.6	4.7	
					Middle	16.6	16.6	16.6	29.8	29.9	29.9	6.5	6.4	6.4	79.9	79.4	79.7	4.3	4.2	4.3	3.9	5.2	5.0	5.1	5.0
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.2	6.1	6.2	76.5	75.9	76.2	4.3	4.2	4.2		5.4	5.3	5.4	
S1	0745-0805	9.8	E	0.4	Surface	16.7	16.8	16.8	29.8	29.7	29.8	6.7	6.7	6.7	82.9	83.1	83.0	3.6	3.5	3.6		4.4	4.3	4.4	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.4	6.5	6.4	79.6	79.9	79.8	4.4	4.3	4.3	4.2	5.4	5.3	5.4	5.1
					Bottom	16.6	16.5	16.6	29.9	29.9	29.9	6.1	6.1	6.1	75.2	75.4	75.3	4.6	4.6	4.6		5.5	5.7	5.6	
G1	0807-0823	11.0	E	0.4	Surface	16.7	16.7	16.7	29.7	29.8	29.8	6.7	6.6	6.6	82.3	82.0	82.2	3.3	3.4	3.3		4.1	4.2	4.2	
					Middle	16.6	16.6	16.6	29.9	29.8	29.9	6.4	6.3	6.4	78.9	78.5	78.7	4.3	4.3	4.3	3.9	5.0	5.1	5.1	4.8
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.4	6.4	6.4	78.8	79.1	79.0	4.0	4.0	4.0		5.2	5.2	5.2	
E7	0831-0846	12.8	E	0.4	Surface	16.9	16.8	16.9	29.7	29.7	29.7	6.3	6.3	6.3	77.9	78.1	78.0	3.4	3.5	3.5		4.3	4.4	4.4	
					Middle	16.5	16.6	16.6	29.8	29.8	29.8	6.2	6.1	6.2	76.5	76.0	76.3	3.3	3.3	3.3	3.6	4.2	4.2	4.2	4.6
					Bottom	16.5	16.4	16.5	29.9	29.9	29.9	6.4	6.3	6.3	78.8	78.2	78.5	4.1	4.2	4.2		5.3	5.2	5.3	
F1	0852-0910	11.8	E	0.4	Surface	16.8	16.8	16.8	29.6	29.7	29.7	6.4	6.5	6.4	79.4	80.1	79.8	4.3	4.2	4.3		5.2	5.3	5.3	
					Middle	16.6	16.7	16.7	29.8	29.7	29.8	6.2	6.2	6.2	76.8	77.3	77.1	3.6	3.6	3.6	4.0	4.1	4.2	4.2	4.9
					Bottom	16.4	16.4	16.4	29.9	29.8	29.9	6.5	6.4	6.5	80.4	79.6	80.0	4.2	4.3	4.2		5.3	5.4	5.4	
G3	0915-0935	15.4	E	0.4	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.4	6.4	6.4	78.6	79.1	78.9	4.1	4.1	4.1		5.1	5.1	5.1	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.3	6.3	6.3	77.9	77.6	77.8	3.8	3.9	3.8	4.0	4.9	4.8	4.9	5.1
					Bottom	16.5	16.4	16.5	29.8	29.8	29.8	6.1	6.0	6.1	75.3	74.5	74.9	4.1	4.2	4.1		5.4	5.4	5.4	
E9	0943-1000	17.4	E	0.4	Surface	16.9	16.9	16.9	29.7	29.7	29.7	6.2	6.1	6.2	76.8	75.8	76.3	3.0	3.1	3.1		3.8	3.7	3.8	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.5	6.4	6.4	79.9	79.4	79.7	4.0	4.0	4.0	3.7	4.7	4.8	4.8	4.6
					Bottom	16.4	16.5	16.5	29.9	29.9	29.9	6.2	6.2	6.2	77.0	76.9	77.0	4.2	4.2	4.2		5.3	5.3	5.3	
S2	1005-1022	11.2	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.4	6.5	6.4	79.2	80.2	79.7	3.1	3.1	3.1		4.3	4.2	4.3	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.5	6.5	6.5	80.5	80.9	80.7	3.2	3.3	3.2	3.4	4.4	4.5	4.5	4.5
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.2	6.2	6.2	76.5	77.0	76.8	3.7	3.8	3.7		4.9	4.8	4.9	
G2	1025-1040	13.2	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.5	6.6	6.5	80.7	81.1	80.9	3.2	3.3	3.2		4.1	4.2	4.2	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.3	6.2	6.3	77.8	77.3	77.6	3.5	3.5	3.5	3.5	4.5	4.7	4.6	4.5
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.1	6.1	6.1	75.5	76.0	75.8	3.8	3.7	3.7		4.9	4.8	4.9	
S3	1045-1100	11.2	E	0.4	Surface	16.9	16.8	16.9	29.7	29.7	29.7	6.6	6.6	6.6	82.0	82.2	82.1	3.3	3.4	3.4		4.4	4.5	4.5	
					Middle	16.6	16.7	16.7	29.8	29.7	29.8	6.4	6.4	6.4	78.9	79.5	79.2	3.5	3.4	3.5	3.9	4.7	4.6	4.7	5.1
					Bottom	16.6	16.5	16.6	29.9	29.9	29.9	6.1	6.1	6.1	75.7	75.4	75.6	4.9	4.9	4.9		6.2	6.1	6.2	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 27-Jan-14
 Weather: Cloudy
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1444-1500	36.4	W	0.4	Surface	16.8	16.7	16.8	29.7	29.7	29.7	6.7	6.7	6.7	83.0	83.3	83.2	3.6	3.5	3.6		4.7	4.6	4.7	
					Middle	16.7	16.7	16.7	29.7	29.8	29.8	6.4	6.4	6.4	79.1	78.8	79.0	3.9	3.9	3.9	3.9	4.8	4.9	4.9	4.9
					Bottom	16.6	16.5	16.6	29.9	29.8	29.9	6.3	6.3	6.3	77.4	77.6	77.5	4.2	4.2	4.2		5.3	5.3	5.3	
E8	1426-1440	17.8	W	0.4	Surface	16.7	16.7	16.7	29.6	29.6	29.6	6.7	6.6	6.6	82.8	81.7	82.3	3.7	3.7	3.7		4.9	4.8	4.9	
					Middle	16.5	16.6	16.6	29.7	29.7	29.7	6.5	6.6	6.6	80.9	81.4	81.2	3.9	3.8	3.8	3.9	5.0	4.9	5.0	5.0
					Bottom	16.4	16.4	16.4	29.9	29.8	29.9	6.1	6.1	6.1	75.7	75.5	75.6	4.2	4.2	4.2		5.3	5.1	5.2	
S1	1406-1423	9.0	W	0.4	Surface	16.7	16.7	16.7	29.7	29.7	29.7	6.6	6.7	6.7	82.2	82.7	82.5	3.2	3.2	3.2		4.1	4.2	4.2	
					Middle	16.6	16.6	16.6	29.8	29.8	29.8	6.5	6.4	6.4	79.9	79.5	79.7	3.4	3.5	3.5	3.6	4.6	4.6	4.6	4.6
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.4	6.3	6.4	78.9	78.4	78.7	4.0	4.1	4.0		5.0	5.2	5.1	
G1	1344-1400	11.8	W	0.4	Surface	16.7	16.8	16.8	29.8	29.8	29.8	6.4	6.4	6.4	79.5	79.7	79.6	3.2	3.2	3.2		3.9	4.0	4.0	
					Middle	16.7	16.6	16.7	29.9	29.9	29.9	6.7	6.7	6.7	82.6	82.8	82.7	4.3	4.4	4.3	4.1	5.2	5.4	5.3	5.0
					Bottom	16.6	16.5	16.6	29.9	29.9	29.9	6.4	6.5	6.4	79.6	79.9	79.8	4.8	4.7	4.8		5.8	5.7	5.8	
E7	1316-1335	13.0	W	0.4	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.6	6.6	6.6	81.8	81.7	81.8	3.3	3.4	3.3		4.2	4.3	4.3	
					Middle	16.7	16.7	16.7	29.9	29.9	29.9	6.3	6.4	6.3	78.4	78.6	78.5	4.5	4.5	4.5	4.2	5.4	5.3	5.4	5.2
					Bottom	16.5	16.5	16.5	29.9	30.0	30.0	6.2	6.2	6.2	76.8	76.9	76.9	4.6	4.7	4.6		5.9	5.8	5.9	
F1	1251-1311	12.2	W	0.4	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.6	6.6	6.6	82.1	81.9	82.0	3.4	3.4	3.4		4.4	4.3	4.4	
					Middle	16.7	16.7	16.7	29.9	29.9	29.9	6.2	6.2	6.2	76.8	76.4	76.6	4.7	4.7	4.7	4.3	5.7	5.8	5.8	5.3
					Bottom	16.6	16.6	16.6	29.9	29.9	29.9	6.1	6.1	6.1	75.0	75.3	75.2	4.9	4.9	4.9		6.0	5.8	5.9	
G3	1231-1245	16.0	W	0.3	Surface	16.8	16.7	16.8	29.7	29.8	29.8	6.5	6.5	6.5	80.6	80.9	80.8	3.1	3.2	3.2		4.0	4.1	4.1	
					Middle	16.6	16.6	16.6	29.9	29.9	29.9	6.4	6.4	6.4	78.8	78.9	78.9	3.4	3.4	3.4	3.7	4.6	4.6	4.6	4.7
					Bottom	16.6	16.6	16.6	29.9	29.9	29.9	6.1	6.1	6.1	75.8	76.0	75.9	4.6	4.6	4.6		5.4	5.4	5.4	
E9	1208-1223	13.2	W	0.4	Surface	16.7	16.8	16.8	29.7	29.6	29.7	6.4	6.5	6.4	79.6	79.9	79.8	3.4	3.4	3.4		4.3	4.2	4.3	
					Middle	16.7	16.7	16.7	29.8	29.8	29.8	6.1	6.1	6.1	75.5	76.0	75.8	4.6	4.6	4.6	4.1	5.6	5.7	5.7	5.0
					Bottom	16.4	16.5	16.5	29.9	29.9	29.9	6.3	6.2	6.3	77.5	77.3	77.4	4.3	4.4	4.4		5.2	5.1	5.2	
S2	1144-1205	11.8	W	0.4	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.6	6.7	6.6	81.7	82.5	82.1	3.8	3.8	3.8		4.5	4.6	4.6	
					Middle	16.7	16.6	16.7	29.8	29.8	29.8	6.3	6.2	6.3	77.8	77.0	77.4	4.3	4.3	4.3	4.1	5.1	5.2	5.2	5.1
					Bottom	16.5	16.5	16.5	29.9	29.9	29.9	6.2	6.1	6.2	76.4	75.9	76.2	4.2	4.1	4.2		5.4	5.6	5.5	
G2	1123-1140	13.8	W	0.3	Surface	16.8	16.7	16.8	29.6	29.7	29.7	6.7	6.7	6.7	82.6	82.8	82.7	3.1	3.2	3.1		3.8	3.9	3.9	
					Middle	16.6	16.6	16.6	29.8	29.9	29.9	6.4	6.4	6.4	79.2	78.8	79.0	3.2	3.3	3.2	3.5	4.0	4.1	4.1	4.3
					Bottom	16.5	16.5	16.5	29.8	29.9	29.9	6.1	6.0	6.1	75.4	74.4	74.9	4.3	4.2	4.3		5.0	5.1	5.1	
S3	1100-1115	11.8	W	0.3	Surface	16.7	16.7	16.7	29.7	29.7	29.7	6.7	6.7	6.7	83.2	82.9	83.1	3.4	3.4	3.4		4.2	4.4	4.3	
					Middle	16.5	16.5	16.5	29.8	29.8	29.8	6.5	6.5	6.5	80.2	80.4	80.3	3.9	3.8	3.8	3.8	4.9	5.1	5.0	4.9
					Bottom	16.4	16.4	16.4	29.9	29.8	29.9	6.2	6.3	6.2	77.0	77.6	77.3	4.3	4.2	4.3		5.5	5.4	5.5	

Remark or Observation:

Note: * Average

** Depth Average

Date: 27-Jan-14
 Weather: Cloudy
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1500-1518	36.8	W	0.2	Surface	16.8	16.9	16.9	29.7	29.6	29.7	6.8	6.8	6.8	84.0	84.3	84.2	3.5	3.5	3.5		4.6	4.5	4.6	
					Middle	16.9	16.8	16.9	29.7	29.8	29.8	6.5	6.5	6.5	80.2	79.7	80.0	3.9	3.9	3.9	3.8	5.0	4.9	5.0	5.0
					Bottom	16.8	16.7	16.8	29.9	29.8	29.9	6.3	6.4	6.4	78.4	78.7	78.6	4.1	4.2	4.2		5.4	5.4	5.4	
E8	1523-1541	18.2	W	0.3	Surface	16.7	16.8	16.8	29.6	29.7	29.7	6.8	6.7	6.7	83.9	82.7	83.3	3.6	3.6	3.6		4.3	4.5	4.4	
					Middle	16.8	16.7	16.8	29.7	29.8	29.8	6.6	6.7	6.6	82.0	82.4	82.2	3.8	3.7	3.8	3.8	4.8	4.7	4.8	4.8
					Bottom	16.7	16.6	16.7	29.9	29.9	29.9	6.2	6.2	6.2	76.8	76.6	76.7	4.1	4.1	4.1		5.4	5.2	5.3	
S1	1546-1603	9.4	W	0.3	Surface	16.8	16.7	16.8	29.7	29.6	29.7	6.7	6.8	6.8	83.3	83.7	83.5	3.2	3.2	3.2		3.8	3.9	3.9	
					Middle	16.6	16.7	16.7	29.7	29.7	29.7	6.5	6.5	6.5	80.9	80.6	80.8	3.4	3.4	3.4	3.5	4.4	4.5	4.5	4.5
					Bottom	16.6	16.7	16.7	29.9	29.8	29.9	6.5	6.4	6.4	80.1	79.8	80.0	4.0	4.0	4.0		5.0	5.2	5.1	
G1	1608-1625	12.2	W	0.4	Surface	16.8	16.8	16.8	29.8	29.7	29.8	6.5	6.5	6.5	80.5	80.7	80.6	3.1	3.1	3.1		4.2	4.2	4.2	
					Middle	16.8	16.7	16.8	29.8	29.9	29.9	6.8	6.8	6.8	83.7	83.9	83.8	4.3	4.3	4.3	4.0	5.4	5.3	5.4	4.9
					Bottom	16.7	16.8	16.8	29.9	30.0	30.0	6.5	6.5	6.5	80.7	80.9	80.8	4.7	4.7	4.7		5.2	5.2	5.2	
E7	1630-1648	13.2	W	0.3	Surface	16.9	16.8	16.9	29.7	29.8	29.8	6.7	6.7	6.7	82.9	82.8	82.9	3.3	3.3	3.3		4.2	4.3	4.3	
					Middle	16.8	16.7	16.8	29.9	29.8	29.9	6.4	6.4	6.4	79.5	79.7	79.6	4.4	4.5	4.4	4.1	5.6	5.7	5.7	5.3
					Bottom	16.8	16.9	16.9	29.9	30.0	30.0	6.3	6.3	6.3	77.9	78.0	78.0	4.6	4.6	4.6		5.9	5.8	5.9	
F1	1653-1710	12.4	W	0.4	Surface	16.9	17.0	17.0	29.8	29.7	29.8	6.7	6.7	6.7	83.0	83.0	83.0	3.3	3.4	3.3		4.2	4.1	4.2	
					Middle	16.9	16.8	16.9	29.8	29.8	29.8	6.3	6.3	6.3	77.9	78.0	78.0	4.6	4.6	4.6	4.3	5.7	5.8	5.8	5.4
					Bottom	16.8	16.8	16.8	29.8	29.9	29.9	6.2	6.2	6.2	76.2	76.4	76.3	4.9	4.9	4.9		6.2	6.1	6.2	
G3	1715-1732	16.2	W	0.3	Surface	16.8	16.7	16.8	29.7	29.7	29.7	6.6	6.6	6.6	81.6	82.0	81.8	3.1	3.1	3.1		3.7	3.9	3.8	
					Middle	16.8	16.9	16.9	29.7	29.8	29.8	6.5	6.5	6.5	79.8	80.1	80.0	3.4	3.4	3.4	3.7	4.4	4.6	4.5	4.6
					Bottom	16.9	16.8	16.8	29.9	29.8	29.9	6.2	6.2	6.2	76.9	77.1	77.0	4.5	4.5	4.5		5.6	5.5	5.6	
E9	1737-1755	13.4	W	0.3	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.5	6.6	6.5	80.5	81.0	80.8	3.3	3.3	3.3		4.4	4.5	4.5	
					Middle	16.8	16.7	16.8	29.7	29.8	29.8	6.2	6.2	6.2	76.6	77.1	76.9	4.5	4.5	4.5	4.0	5.9	5.8	5.9	5.3
					Bottom	16.7	16.6	16.7	29.9	29.9	29.9	6.4	6.3	6.3	78.5	78.3	78.4	4.3	4.3	4.3		5.5	5.4	5.5	
S2	1800-1818	12.2	W	0.3	Surface	16.8	16.9	16.9	29.7	29.6	29.7	6.7	6.8	6.7	82.8	83.5	83.2	3.7	3.7	3.7		4.5	4.6	4.6	
					Middle	16.8	16.7	16.8	29.7	29.8	29.8	6.4	6.3	6.3	78.9	78.1	78.5	4.3	4.3	4.3	4.0	5.5	5.7	5.6	5.1
					Bottom	16.7	16.6	16.7	29.8	29.9	29.9	6.3	6.2	6.2	77.5	77.0	77.3	4.1	4.1	4.1		5.1	5.3	5.2	
G2	1823-1840	13.8	W	0.3	Surface	16.9	16.8	16.9	29.8	29.7	29.8	6.8	6.8	6.8	83.7	83.9	83.8	3.1	3.1	3.1		4.0	4.2	4.1	
					Middle	16.8	16.7	16.8	29.8	29.9	29.9	6.5	6.5	6.5	80.3	79.9	80.1	3.1	3.2	3.2	3.5	4.5	4.4	4.5	4.7
					Bottom	16.7	16.7	16.7	29.9	29.8	29.9	6.2	6.1	6.2	76.5	76.0	76.3	4.2	4.2	4.2		5.6	5.4	5.5	
S3	1845-1900	12.0	W	0.4	Surface	16.8	16.7	16.8	29.7	29.6	29.7	6.8	6.8	6.8	84.2	83.9	84.1	3.3	3.3	3.3		4.6	4.6	4.6	
					Middle	16.7	16.6	16.7	29.7	29.8	29.8	6.6	6.6	6.6	81.3	81.4	81.4	3.8	3.8	3.8	3.8	5.0	4.9	5.0	5.0
					Bottom	16.5	16.6	16.6	29.8	29.9	29.9	6.3	6.4	6.3	78.1	78.7	78.4	4.2	4.2	4.2		5.4	5.4	5.4	

Remark or Observation:

Note: * Average

** Depth Average

Date: 27-Jan-14
 Weather: Cloudy
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	2245-2300	36.2	W	0.3	Surface	16.7	16.8	16.8	29.6	29.7	29.7	6.7	6.8	6.8	83.3	83.6	83.5	3.6	3.5	3.5		4.7	4.6	4.7	
					Middle	16.8	16.7	16.8	29.7	29.8	29.8	6.4	6.4	6.4	79.4	79.0	79.2	3.9	3.9	3.9	3.9	5.2	5.2	5.2	5.1
					Bottom	16.7	16.7	16.7	29.8	29.9	29.9	6.3	6.3	6.3	77.7	77.9	77.8	4.2	4.2	4.2		5.5	5.6	5.6	
E8	2223-2240	17.8	W	0.4	Surface	16.6	16.7	16.7	29.6	29.6	29.6	6.7	6.6	6.7	83.1	82.0	82.6	3.6	3.6	3.6		4.7	4.9	4.8	
					Middle	16.7	16.6	16.7	29.8	29.7	29.8	6.6	6.6	6.6	81.3	81.6	81.5	3.9	3.8	3.8	3.9	5.4	5.3	5.4	5.3
					Bottom	16.7	16.8	16.8	29.8	29.9	29.9	6.1	6.1	6.1	76.0	75.8	75.9	4.2	4.1	4.1		5.7	5.6	5.7	
S1	2200-2218	9.2	W	0.3	Surface	16.7	16.6	16.7	29.7	29.6	29.7	6.7	6.7	6.7	82.4	83.0	82.7	3.2	3.2	3.2		4.2	4.4	4.3	
					Middle	16.7	16.8	16.8	29.7	29.8	29.8	6.5	6.5	6.5	80.2	79.8	80.0	3.4	3.4	3.4	3.5	4.6	4.7	4.7	4.7
					Bottom	16.8	16.7	16.8	29.9	29.9	29.9	6.4	6.4	6.4	79.4	78.7	79.1	4.0	4.0	4.0		5.3	5.2	5.3	
G1	2137-2155	11.8	W	0.4	Surface	16.7	16.8	16.8	29.7	29.8	29.8	6.5	6.5	6.5	79.7	79.9	79.8	3.1	3.2	3.2		4.3	4.4	4.4	
					Middle	16.7	16.6	16.7	29.8	29.7	29.8	6.7	6.7	6.7	82.9	83.1	83.0	4.3	4.3	4.3	4.1	5.5	5.5	5.5	5.2
					Bottom	16.7	16.7	16.7	29.8	29.9	29.9	6.5	6.5	6.5	79.9	80.2	80.1	4.7	4.7	4.7		5.9	5.8	5.9	
E7	2115-2132	12.8	W	0.3	Surface	16.8	16.8	16.8	29.7	29.6	29.7	6.6	6.6	6.6	82.1	81.9	82.0	3.3	3.3	3.3		4.2	4.3	4.3	
					Middle	16.7	16.8	16.8	29.7	29.8	29.8	6.4	6.4	6.4	78.7	78.9	78.8	4.5	4.5	4.5	4.1	5.6	5.7	5.7	5.3
					Bottom	16.7	16.6	16.7	29.8	29.9	29.9	6.2	6.2	6.2	77.1	77.2	77.2	4.6	4.6	4.6		5.8	5.9	5.9	
F1	2053-2110	12.0	W	0.3	Surface	16.8	16.7	16.8	29.7	29.7	29.7	6.7	6.7	6.7	82.3	82.2	82.3	3.4	3.4	3.4		4.3	4.5	4.4	
					Middle	16.8	16.8	16.8	29.7	29.8	29.8	6.2	6.2	6.2	77.1	77.2	77.2	4.6	4.7	4.6	4.3	5.8	5.8	5.8	5.5
					Bottom	16.7	16.7	16.7	29.9	29.8	29.9	6.1	6.1	6.1	75.3	75.6	75.5	4.9	4.9	4.9		6.2	6.1	6.2	
G3	2030-2048	15.8	W	0.3	Surface	16.7	16.6	16.7	29.6	29.7	29.7	6.5	6.6	6.6	80.8	81.2	81.0	3.1	3.2	3.1		4.2	4.3	4.3	
					Middle	16.7	16.8	16.8	29.8	29.7	29.8	6.4	6.4	6.4	79.0	79.3	79.2	3.4	3.4	3.4	3.7	4.6	4.6	4.6	4.9
					Bottom	16.8	16.7	16.8	29.8	29.8	29.8	6.2	6.2	6.2	76.1	76.4	76.3	4.5	4.6	4.6		5.7	5.8	5.8	
E9	2008-2025	13.0	W	0.3	Surface	16.7	16.8	16.8	29.7	29.8	29.8	6.5	6.5	6.5	79.7	80.2	80.0	3.4	3.4	3.4		4.5	4.6	4.6	
					Middle	16.8	16.8	16.8	29.8	29.9	29.9	6.1	6.2	6.2	75.8	76.3	76.1	4.5	4.5	4.5	4.1	5.7	5.7	5.7	5.3
					Bottom	16.7	16.6	16.7	29.9	29.8	29.9	6.3	6.3	6.3	77.8	77.6	77.7	4.3	4.3	4.3		5.5	5.6	5.6	
S2	1946-2003	11.8	W	0.2	Surface	16.7	16.8	16.8	29.6	29.6	29.6	6.7	6.8	6.8	83.1	83.8	83.5	3.7	3.8	3.7		4.9	4.9	4.9	
					Middle	16.8	16.7	16.8	29.7	29.6	29.7	6.3	6.3	6.3	78.4	79.1	78.8	4.3	4.3	4.3	4.1	5.5	5.6	5.6	5.3
					Bottom	16.6	16.6	16.6	29.7	29.8	29.8	6.3	6.3	6.3	77.8	77.4	77.6	4.2	4.1	4.1		5.4	5.4	5.4	
G2	1923-1941	13.4	W	0.4	Surface	16.8	16.8	16.8	29.7	29.6	29.7	6.7	6.7	6.7	82.9	83.1	83.0	3.1	3.1	3.1		4.0	4.1	4.1	
					Middle	16.7	16.6	16.7	29.7	29.8	29.8	6.4	6.4	6.4	79.5	79.1	79.3	3.2	3.3	3.2	3.5	4.3	4.5	4.4	4.6
					Bottom	16.6	16.7	16.7	29.8	29.9	29.9	6.1	6.1	6.1	75.8	75.2	75.5	4.2	4.2	4.2		5.4	5.4	5.4	
S3	1900-1918	11.6	W	0.3	Surface	16.7	16.8	16.8	29.6	29.7	29.7	6.8	6.7	6.7	83.4	83.3	83.4	3.3	3.4	3.4		4.6	4.5	4.6	
					Middle	16.7	16.7	16.7	29.8	29.7	29.8	6.5	6.5	6.5	80.6	80.7	80.7	3.8	3.8	3.8	3.8	5.1	5.0	5.1	5.0
					Bottom	16.7	16.6	16.7	29.9	29.8	29.9	6.3	6.3	6.3	77.4	78.0	77.7	4.3	4.2	4.2		5.4	5.6	5.5	

Remark or Observation:

Note: * Average

** Depth Average

Date: 28-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0714-0730	37.1	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	6.9	7.0	7.0	86.1	86.3	86.2	3.6	3.6	3.6		4.8	4.8	4.8	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.9	6.8	6.8	85.2	84.9	85.1	3.7	3.7	3.7	3.6	5.1	5.0	5.1	4.9
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.6	6.7	6.6	82.6	82.8	82.7	3.4	3.4	3.4		4.6	4.8	4.7	
E8	0735-0751	30.1	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.0	7.1	7.0	87.2	87.5	87.4	3.5	3.5	3.5		4.6	4.8	4.7	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.9	6.9	6.9	85.5	85.7	85.6	3.7	3.7	3.7	3.6	4.9	4.9	4.9	4.9
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.1	83.3	83.2	3.5	3.5	3.5		5.0	4.9	5.0	
S1	0756-0813	10.6	W	0.4	Surface	17.0	17.0	17.0	30.1	30.0	30.1	7.1	7.1	7.1	88.2	88.4	88.3	3.4	3.5	3.4		4.8	4.9	4.9	
					Middle	17.1	17.1	17.1	30.2	30.3	30.3	6.9	6.9	6.9	86.1	85.9	86.0	3.6	3.6	3.6	3.5	4.9	4.8	4.9	5.0
					Bottom	17.2	17.3	17.3	30.4	30.4	30.4	6.8	6.8	6.8	84.5	84.7	84.6	3.5	3.5	3.5		5.3	5.2	5.3	
G1	0818-0834	11.7	W	0.3	Surface	17.1	17.1	17.1	30.0	30.0	30.0	6.9	6.9	6.9	85.2	85.4	85.3	3.5	3.5	3.5		4.9	5.0	5.0	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.7	6.8	6.7	83.7	83.9	83.8	3.7	3.8	3.7	3.6	5.4	5.3	5.4	5.1
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.4	6.4	6.4	80.1	80.4	80.3	3.6	3.6	3.6		5.0	5.2	5.1	
E7	0839-0856	13.1	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.1	7.1	7.1	87.9	88.1	88.0	3.5	3.5	3.5		5.2	5.1	5.2	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	6.9	6.9	6.9	85.2	85.4	85.3	3.7	3.7	3.7	3.5	4.7	4.8	4.8	5.0
					Bottom	17.3	17.4	17.4	30.4	30.3	30.4	6.6	6.7	6.7	82.9	83.1	83.0	3.5	3.5	3.5		5.1	5.2	5.2	
F1	0901-0918	12.0	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	6.9	6.9	6.9	86.1	85.9	86.0	3.5	3.5	3.5		5.2	5.3	5.3	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.8	6.8	6.8	84.2	84.0	84.1	3.7	3.7	3.7	3.6	4.6	4.7	4.7	5.0
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.6	6.6	6.6	82.0	82.2	82.1	3.5	3.5	3.5		4.9	5.0	5.0	
G3	0923-0940	15.6	W	0.3	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.1	7.2	7.2	88.5	88.8	88.7	3.4	3.4	3.4		4.8	4.8	4.8	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.9	6.9	6.9	86.2	86.0	86.1	3.7	3.7	3.7	3.5	4.8	4.6	4.7	4.8
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.8	6.7	6.7	84.2	84.0	84.1	3.4	3.4	3.4		5.0	4.8	4.9	
E9	0945-1002	18.9	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	6.9	6.9	6.9	85.4	85.2	85.3	3.5	3.6	3.6		4.9	5.1	5.0	
					Middle	17.2	17.2	17.2	30.1	30.1	30.1	6.7	6.7	6.7	83.0	83.1	83.1	3.6	3.6	3.6	3.5	5.2	5.2	5.2	5.1
					Bottom	17.3	17.4	17.4	30.2	30.3	30.3	6.4	6.4	6.4	80.1	80.4	80.3	3.5	3.5	3.5		5.0	5.1	5.1	
S2	1007-1023	10.8	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.0	7.0	7.0	87.0	87.3	87.2	3.4	3.5	3.5		4.9	4.8	4.9	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	86.0	85.8	85.9	3.7	3.7	3.7	3.6	5.1	5.2	5.2	5.0
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.9	83.6	83.8	3.5	3.5	3.5		5.0	4.9	5.0	
G2	1028-1044	13.7	W	0.4	Surface	17.0	17.0	17.0	30.0	30.1	30.1	6.9	6.9	6.9	85.8	86.0	85.9	3.5	3.5	3.5		4.9	4.8	4.9	
					Middle	17.1	17.1	17.1	30.2	30.3	30.3	6.8	6.9	6.8	85.0	85.3	85.2	3.7	3.7	3.7	3.6	5.3	5.2	5.3	5.0
					Bottom	17.2	17.3	17.3	30.4	30.4	30.4	6.6	6.7	6.7	82.9	83.1	83.0	3.6	3.6	3.6		5.0	5.0	5.0	
S3	1049-1100	11.0	W	0.3	Surface	17.1	17.1	17.1	30.0	30.1	30.1	6.9	6.9	6.9	85.2	85.5	85.4	3.5	3.5	3.5		4.8	4.9	4.9	
					Middle	17.2	17.3	17.3	30.2	30.2	30.2	6.7	6.7	6.7	83.7	83.3	83.5	3.7	3.8	3.7	3.6	5.3	5.4	5.4	5.2
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.5	6.5	6.5	81.4	81.6	81.5	3.6	3.6	3.6		5.4	5.3	5.4	

Remark or Observation:

Note: * Average

** Depth Average

Date: 28-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1443-1500	36.9	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	6.7	6.7	6.7	82.7	82.8	82.8	3.8	3.8	3.8		4.9	4.9	4.9	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.5	6.6	6.6	81.3	81.5	81.4	3.8	3.9	3.9	3.8	5.3	5.2	5.3	5.1
					Bottom	17.2	17.3	17.3	30.3	30.4	30.4	6.4	6.4	6.4	80.2	80.0	80.1	3.7	3.7	3.7		5.2	5.1	5.2	
E8	1423-1438	19.9	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	6.8	6.8	6.8	83.8	84.0	83.9	3.7	3.7	3.7		4.7	4.8	4.8	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.6	6.6	6.6	82.4	82.2	82.3	3.8	3.8	3.8	3.7	5.0	5.1	5.1	4.9
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.5	6.5	6.5	80.7	80.9	80.8	3.7	3.7	3.7		4.8	4.8	4.8	
S1	1401-1418	11.5	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	6.7	6.7	6.7	83.4	83.2	83.3	3.7	3.7	3.7		4.9	5.0	5.0	
					Middle	17.2	17.1	17.2	30.2	30.3	30.3	6.5	6.5	6.5	81.4	81.2	81.3	3.8	3.8	3.8	3.8	5.4	5.2	5.3	5.1
					Bottom	17.3	17.3	17.3	30.4	30.4	30.4	6.4	6.4	6.4	79.9	79.7	79.8	3.7	3.7	3.7		5.0	5.0	5.0	
G1	1338-1350	11.5	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	6.7	6.7	6.7	83.5	83.2	83.4	3.6	3.6	3.6		4.8	4.8	4.8	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.5	6.6	6.6	81.4	81.7	81.6	3.7	3.8	3.7	3.6	4.9	5.0	5.0	4.9
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.4	7.0	6.7	79.9	79.7	79.8	3.5	3.5	3.5		4.8	5.0	4.9	
E7	1315-1333	12.9	W	0.4	Surface	17.1	17.1	17.1	30.0	30.0	30.0	6.7	6.6	6.7	82.6	82.3	82.5	3.6	3.6	3.6		5.3	5.2	5.3	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.5	6.5	6.5	81.1	80.9	81.0	3.7	3.7	3.7	3.6	5.2	5.2	5.2	5.2
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.4	6.4	6.4	80.4	80.1	80.3	3.5	3.5	3.5		5.0	5.1	5.1	
F1	1253-1310	11.8	W	0.4	Surface	17.0	17.0	17.0	30.0	30.1	30.1	6.8	6.8	6.8	83.9	84.1	84.0	3.6	3.6	3.6		4.9	5.0	5.0	
					Middle	17.1	17.1	17.1	30.2	30.3	30.3	6.7	6.7	6.7	83.2	83.4	83.3	3.7	3.7	3.7	3.6	5.1	5.2	5.2	5.1
					Bottom	17.2	17.3	17.3	30.4	30.4	30.4	6.6	6.6	6.6	82.4	82.1	82.3	3.5	3.5	3.5		5.0	5.1	5.1	
G3	1232-1248	15.3	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	6.8	6.8	6.8	84.4	84.6	84.5	3.7	3.7	3.7		5.2	5.2	5.2	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.7	6.7	6.7	83.0	83.4	83.2	3.7	3.8	3.8	3.7	5.4	5.3	5.4	5.3
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.5	6.5	6.5	81.6	81.3	81.5	3.6	3.6	3.6		5.4	5.4	5.4	
E9	1209-1227	18.7	W	0.3	Surface	17.0	17.1	17.1	30.1	30.0	30.1	6.7	6.8	6.7	83.5	83.7	83.6	3.7	3.7	3.7		5.2	5.3	5.3	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.6	6.6	6.6	81.7	81.9	81.8	3.6	3.6	3.6	3.6	5.4	5.5	5.5	5.4
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.3	6.4	6.4	79.1	79.3	79.2	3.5	3.6	3.5		5.4	5.5	5.5	
S2	1146-1204	10.6	W	0.3	Surface	17.1	17.1	17.1	30.0	30.1	30.1	6.9	6.9	6.9	85.8	85.6	85.7	3.7	3.7	3.7		4.9	5.0	5.0	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.7	6.7	6.7	83.5	83.3	83.4	3.7	3.7	3.7	3.6	5.1	5.2	5.2	5.0
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.4	6.4	6.4	79.7	79.9	79.8	3.5	3.5	3.5		5.0	5.0	5.0	
G2	1123-1141	13.5	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	6.8	6.8	6.8	84.8	84.6	84.7	3.7	3.7	3.7		5.0	4.9	5.0	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.7	6.7	6.7	83.0	82.8	82.9	3.7	3.7	3.7	3.6	5.3	5.2	5.3	5.0
					Bottom	17.3	17.4	17.4	30.3	30.3	30.3	6.4	6.4	6.4	80.1	79.8	80.0	3.4	3.5	3.5		4.9	4.8	4.9	
S3	1100-1118	10.8	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	6.9	6.9	6.9	85.2	84.9	85.1	3.6	3.6	3.6		4.6	4.7	4.7	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	6.7	6.7	6.7	83.3	83.1	83.2	3.8	3.8	3.8	3.7	4.9	5.0	5.0	4.8
					Bottom	17.3	17.4	17.4	30.4	30.4	30.4	6.5	6.5	6.5	80.7	81.0	80.9	3.5	3.6	3.6		4.8	4.8	4.8	

Remark or Observation:

Note: * Average

** Depth Average

Date: 28-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1500-1516	36.4	W	0.4	Surface	17.2	17.3	17.3	30.1	30.1	30.1	6.7	6.7	6.7	83.0	82.7	82.9	3.2	3.3	3.3		3.8	3.9	3.9	
					Middle	17.3	17.4	17.4	30.2	30.3	30.3	6.7	6.7	6.7	83.4	83.9	83.7	3.4	3.5	3.4	3.4	4.6	4.5	4.6	4.4
					Bottom	17.4	17.5	17.5	30.4	30.5	30.5	6.5	6.5	6.5	81.5	81.0	81.3	3.5	3.6	3.6		4.7	4.8	4.8	
E8	1522-1539	19.8	W	0.3	Surface	17.1	17.2	17.2	30.1	30.1	30.1	6.7	6.8	6.7	83.5	84.0	83.8	3.2	3.2	3.2		3.9	4.0	4.0	
					Middle	17.3	17.4	17.4	30.3	30.4	30.4	6.6	6.6	6.6	82.3	82.7	82.5	3.6	3.6	3.6	3.5	4.7	4.8	4.8	4.4
					Bottom	17.5	17.6	17.6	30.4	30.4	30.4	6.5	6.5	6.5	81.1	80.7	80.9	3.8	3.8	3.8		4.6	4.6	4.6	
S1	1545-1601	10.2	W	0.4	Surface	17.2	17.3	17.3	30.2	30.1	30.2	6.8	6.8	6.8	84.4	84.0	84.2	3.2	3.2	3.2		3.7	3.8	3.8	
					Middle	17.4	17.3	17.4	30.2	30.3	30.3	6.7	6.7	6.7	83.0	83.3	83.2	3.3	3.4	3.4	3.4	4.1	4.2	4.2	4.2
					Bottom	17.5	17.5	17.5	30.5	30.4	30.5	6.5	6.5	6.5	81.2	80.9	81.1	3.5	3.6	3.5		4.6	4.7	4.7	
G1	1605-1620	11.4	W	0.4	Surface	17.3	17.2	17.3	30.1	30.1	30.1	6.8	6.8	6.8	85.1	84.6	84.9	3.4	3.4	3.4		4.3	4.4	4.4	
					Middle	17.3	17.4	17.4	30.3	30.3	30.3	6.8	6.8	6.8	84.2	84.1	84.2	3.5	3.5	3.5	3.5	4.6	4.7	4.7	4.5
					Bottom	17.4	17.5	17.5	30.4	30.4	30.4	6.5	6.5	6.5	80.7	80.4	80.6	3.6	3.7	3.7		4.5	4.7	4.6	
E7	1628-1644	12.8	W	0.4	Surface	17.2	17.2	17.2	30.1	30.2	30.2	6.6	6.6	6.6	82.5	82.1	82.3	3.3	3.4	3.3		4.0	4.2	4.1	
					Middle	17.3	17.4	17.4	30.2	30.3	30.3	6.7	6.8	6.8	83.9	84.4	84.2	3.5	3.5	3.5	3.5	4.6	4.5	4.6	4.5
					Bottom	17.5	17.4	17.5	30.4	30.4	30.4	6.6	6.6	6.6	82.1	81.6	81.9	3.6	3.6	3.6		4.7	4.8	4.8	
F1	1651-1707	11.4	W	0.4	Surface	17.2	17.2	17.2	30.1	30.2	30.2	6.7	6.7	6.7	83.5	83.4	83.5	3.4	3.5	3.4		4.3	4.4	4.4	
					Middle	17.3	17.3	17.3	30.2	30.3	30.3	6.6	6.6	6.6	82.6	82.1	82.4	3.5	3.6	3.6	3.6	4.6	4.5	4.6	4.6
					Bottom	17.5	17.5	17.5	30.5	30.5	30.5	6.6	6.5	6.5	81.6	81.0	81.3	3.7	3.7	3.7		4.8	4.9	4.9	
G3	1715-1731	13.2	W	0.3	Surface	17.3	17.2	17.3	30.2	30.1	30.2	6.7	6.7	6.7	82.7	83.0	82.9	3.5	3.5	3.5		4.6	4.5	4.6	
					Middle	17.3	17.4	17.4	30.3	30.2	30.3	6.5	6.6	6.6	81.4	81.6	81.5	3.6	3.7	3.6	3.7	4.8	5.0	4.9	4.9
					Bottom	17.4	17.5	17.5	30.4	30.5	30.5	6.5	6.5	6.5	80.4	80.8	80.6	3.9	3.9	3.9		5.2	5.1	5.2	
E9	1738-1755	18.8	W	0.4	Surface	17.2	17.2	17.2	30.1	30.1	30.1	6.6	6.6	6.6	82.0	82.5	82.3	3.5	3.5	3.5		4.8	4.7	4.8	
					Middle	17.3	17.4	17.4	30.2	30.3	30.3	6.5	6.5	6.5	81.2	80.8	81.0	3.6	3.6	3.6	3.6	5.0	5.1	5.1	5.1
					Bottom	17.5	17.5	17.5	30.4	30.5	30.5	6.4	6.5	6.4	79.9	80.5	80.2	3.8	3.8	3.8		5.3	5.4	5.4	
S2	1801-1817	11.0	W	0.4	Surface	17.3	17.2	17.3	30.1	30.1	30.1	6.6	6.6	6.6	82.5	82.0	82.3	3.4	3.3	3.4		3.9	3.8	3.9	
					Middle	17.3	17.3	17.3	30.2	30.3	30.3	6.5	6.6	6.5	81.1	81.6	81.4	3.5	3.6	3.5	3.5	4.3	4.5	4.4	4.3
					Bottom	17.4	17.5	17.5	30.5	30.4	30.5	6.6	6.6	6.6	82.7	82.2	82.5	3.7	3.7	3.7		4.6	4.7	4.7	
G2	1821-1838	13.6	W	0.5	Surface	17.2	17.2	17.2	30.2	30.1	30.2	6.6	6.6	6.6	81.6	82.0	81.8	3.5	3.6	3.5		4.6	4.7	4.7	
					Middle	17.3	17.2	17.3	30.3	30.3	30.3	6.7	6.7	6.7	83.1	83.4	83.3	3.7	3.7	3.7	3.7	4.9	5.0	5.0	5.0
					Bottom	17.5	17.4	17.5	30.4	30.5	30.5	6.5	6.5	6.5	80.7	81.0	80.9	3.9	3.9	3.9		5.2	5.4	5.3	
S3	1843-1900	11.2	W	0.4	Surface	17.2	17.3	17.3	30.2	30.2	30.2	6.6	6.7	6.7	82.5	83.0	82.8	3.5	3.5	3.5		4.4	4.5	4.5	
					Middle	17.3	17.4	17.4	30.3	30.4	30.4	6.6	6.6	6.6	81.7	81.5	81.6	3.8	3.8	3.8	3.8	5.0	5.2	5.1	5.0
					Bottom	17.4	17.5	17.5	30.5	30.5	30.5	6.5	6.5	6.5	80.9	80.6	80.8	4.0	4.0	4.0		5.5	5.4	5.5	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 28-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	2238-2300	35.4	W	0.4	Surface	17.2	17.1	17.2	30.2	30.2	30.2	6.7	6.8	6.7	83.6	84.0	83.8	3.4	3.3	3.3		4.2	4.2	4.2	
					Middle	17.3	17.3	17.3	30.3	30.3	30.3	6.7	6.6	6.6	82.7	82.5	82.6	3.5	3.6	3.6	3.6	4.5	4.6	4.6	4.6
					Bottom	17.5	17.4	17.5	30.5	30.5	30.5	6.5	6.5	6.5	80.9	81.3	81.1	3.8	3.8	3.8		5.0	5.1	5.1	
E8	2215-2231	19.1	W	0.5	Surface	17.1	17.2	17.2	30.1	30.1	30.1	6.7	6.7	6.7	83.4	83.7	83.6	3.5	3.5	3.5		4.7	4.8	4.8	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.7	6.7	6.7	83.1	83.4	83.3	3.6	3.6	3.6	3.6	4.6	4.7	4.7	4.8
					Bottom	17.4	17.5	17.5	30.5	30.4	30.5	6.5	6.6	6.6	81.5	81.9	81.7	3.7	3.7	3.7		4.9	5.0	5.0	
S1	2154-2210	10.8	W	0.4	Surface	17.1	17.2	17.2	30.1	30.2	30.2	6.6	6.5	6.6	81.5	81.4	81.5	3.4	3.5	3.4		4.2	4.3	4.3	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.6	6.6	6.6	82.4	82.5	82.5	3.6	3.7	3.6	3.5	4.8	4.9	4.9	4.6
					Bottom	17.4	17.5	17.5	30.4	30.5	30.5	6.5	6.5	6.5	80.5	81.1	80.8	3.5	3.6	3.6		4.7	4.8	4.8	
G1	2133-2149	11.3	W	0.4	Surface	17.1	17.2	17.2	30.1	30.1	30.1	6.8	6.8	6.8	84.8	84.6	84.7	3.5	3.6	3.5		4.2	4.3	4.3	
					Middle	17.3	17.2	17.3	30.2	30.3	30.3	6.7	6.7	6.7	83.8	83.9	83.9	3.6	3.6	3.6	3.7	4.9	4.8	4.9	4.7
					Bottom	17.5	17.4	17.5	30.4	30.5	30.5	6.5	6.5	6.5	81.2	81.4	81.3	3.8	3.9	3.9		5.0	5.0	5.0	
E7	2110-2126	12.2	W	0.5	Surface	17.2	17.2	17.2	30.2	30.1	30.2	6.7	6.7	6.7	83.4	83.8	83.6	3.5	3.5	3.5		4.3	4.2	4.3	
					Middle	17.2	17.3	17.3	30.3	30.4	30.4	6.5	6.6	6.6	81.4	82.2	81.8	3.6	3.7	3.7	3.6	4.6	4.8	4.7	4.6
					Bottom	17.4	17.4	17.4	30.5	30.4	30.5	6.4	6.4	6.4	79.9	80.5	80.2	3.5	3.5	3.5		4.9	5.0	5.0	
F1	2048-2104	11.6	W	0.4	Surface	17.1	17.1	17.1	30.1	30.1	30.1	6.8	6.9	6.9	85.0	85.5	85.3	3.5	3.5	3.5		4.4	4.3	4.4	
					Middle	17.3	17.2	17.3	30.3	30.3	30.3	6.7	6.7	6.7	83.0	82.7	82.9	3.7	3.7	3.7	3.6	4.9	4.8	4.9	4.7
					Bottom	17.4	17.5	17.5	30.4	30.4	30.4	6.4	6.5	6.4	79.9	80.5	80.2	3.5	3.5	3.5		5.0	4.9	5.0	
G3	2023-2039	13.1	W	0.5	Surface	17.1	17.2	17.2	30.1	30.2	30.2	6.7	6.7	6.7	83.6	83.3	83.5	3.7	3.7	3.7		4.7	4.8	4.8	
					Middle	17.2	17.2	17.2	30.2	30.3	30.3	6.8	6.8	6.8	84.4	84.6	84.5	3.7	3.7	3.7	3.7	4.9	4.8	4.9	4.9
					Bottom	17.3	17.4	17.4	30.4	30.5	30.5	6.5	6.5	6.5	81.4	80.9	81.2	3.8	3.8	3.8		5.2	5.1	5.2	
E9	2003-2018	18.5	W	0.4	Surface	17.1	17.2	17.2	30.1	30.2	30.2	6.8	6.8	6.8	84.9	85.1	85.0	3.5	3.5	3.5		4.6	4.7	4.7	
					Middle	17.3	17.2	17.3	30.2	30.3	30.3	6.5	6.5	6.5	81.0	80.9	81.0	3.6	3.6	3.6	3.7	5.0	4.9	5.0	5.0
					Bottom	17.4	17.5	17.5	30.5	30.5	30.5	6.5	6.4	6.5	80.6	80.1	80.4	3.9	3.9	3.9		5.3	5.4	5.4	
S2	1943-1958	11.4	W	0.5	Surface	17.2	17.1	17.2	30.1	30.1	30.1	6.7	6.8	6.7	83.6	83.9	83.8	3.5	3.5	3.5		4.7	4.6	4.7	
					Middle	17.2	17.3	17.3	30.3	30.3	30.3	6.5	6.6	6.6	81.4	82.1	81.8	3.8	3.8	3.8	3.7	4.9	5.0	5.0	5.0
					Bottom	17.4	17.4	17.4	30.5	30.4	30.5	6.3	6.4	6.3	78.9	79.1	79.0	3.9	3.9	3.9		5.3	5.4	5.4	
G2	1923-1938	13.2	W	0.4	Surface	17.1	17.2	17.2	30.1	30.2	30.2	6.6	6.7	6.6	82.5	82.7	82.6	3.5	3.5	3.5		4.6	4.7	4.7	
					Middle	17.2	17.3	17.3	30.3	30.4	30.4	6.7	6.7	6.7	83.4	83.7	83.6	3.7	3.8	3.8	3.7	4.3	4.4	4.4	4.7
					Bottom	17.5	17.4	17.5	30.4	30.5	30.5	6.4	6.4	6.4	79.6	79.4	79.5	3.8	3.8	3.8		5.0	5.1	5.1	
S3	1900-1917	11.0	W	0.4	Surface	17.3	17.2	17.3	30.1	30.1	30.1	6.7	6.7	6.7	83.8	83.4	83.6	3.4	3.5	3.4		4.6	4.7	4.7	
					Middle	17.4	17.3	17.4	30.2	30.3	30.3	6.6	6.6	6.6	81.9	82.2	82.1	3.6	3.7	3.7	3.6	4.9	4.9	4.9	4.9
					Bottom	17.5	17.5	17.5	30.4	30.5	30.5	6.4	6.5	6.4	79.9	80.4	80.2	3.8	3.8	3.8		5.3	5.2	5.3	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 29-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0700-0716	35.2	E	0.4	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.8	6.9	6.8	84.2	85.1	84.7	3.8	3.9	3.9		5.2	5.2	5.2	
					Middle	16.9	16.8	16.9	29.8	29.8	29.8	6.5	6.5	6.5	80.8	80.9	80.9	3.3	3.3	3.3	3.6	4.5	4.6	4.6	4.8
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.5	6.4	6.4	79.9	79.5	79.7	3.6	3.6	3.6		4.7	4.8	4.8	
E8	0724-0741	17.8	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.7	6.6	6.6	82.2	81.9	82.1	4.0	3.9	4.0		5.4	5.2	5.3	
					Middle	16.9	16.9	16.9	29.8	29.9	29.9	6.4	6.3	6.4	78.8	78.4	78.6	4.1	4.1	4.1	4.1	4.9	4.9	4.9	5.1
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.4	6.5	6.4	79.3	80.0	79.7	4.2	4.2	4.2		5.2	5.1	5.2	
S1	0744-0806	8.6	E	0.3	Surface	16.8	16.8	16.8	29.7	29.7	29.7	6.8	6.7	6.7	83.5	82.9	83.2	3.4	3.4	3.4		4.3	4.4	4.4	
					Middle	16.8	16.9	16.9	29.8	29.8	29.8	6.7	6.6	6.6	82.5	81.6	82.1	3.2	3.2	3.2	3.3	4.6	4.5	4.6	4.5
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.3	6.4	6.4	78.4	78.9	78.7	3.3	3.4	3.3		4.4	4.5	4.5	
G1	0811-0825	10.6	E	0.3	Surface	16.8	16.8	16.8	29.7	29.8	29.8	6.9	7.0	6.9	85.6	86.2	85.9	2.9	2.8	2.8		3.7	3.6	3.7	
					Middle	16.8	16.9	16.9	29.9	29.9	29.9	6.5	6.5	6.5	80.6	80.5	80.6	3.1	3.2	3.1	3.2	3.8	3.8	3.8	4.1
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.5	6.5	6.5	79.2	79.9	79.6	3.6	3.7	3.6		4.7	4.8	4.8	
E7	0830-0835	12.6	E	0.3	Surface	16.8	16.9	16.9	29.8	29.9	29.9	6.6	6.5	6.5	81.1	80.4	80.8	3.2	3.3	3.2		3.8	3.9	3.9	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.8	6.7	6.8	83.9	83.4	83.7	3.8	3.8	3.8	3.5	4.6	4.7	4.7	4.4
					Bottom	16.8	16.9	16.9	29.9	29.9	29.9	6.1	6.1	6.1	75.7	75.8	75.8	3.4	3.3	3.4		4.6	4.5	4.6	
F1	0852-0911	11.4	E	0.3	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.7	6.7	6.7	83.4	80.7	82.1	3.8	3.8	3.8		5.2	5.3	5.3	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.4	6.3	6.3	78.5	78.0	78.3	4.0	4.0	4.0	3.9	4.9	5.1	5.0	5.0
					Bottom	16.9	16.8	16.9	29.9	29.9	29.9	6.3	6.4	6.4	78.2	79.0	78.6	4.1	4.0	4.0		4.8	4.7	4.8	
G3	0915-0936	14.8	E	0.4	Surface	16.8	16.7	16.8	29.8	29.8	29.8	6.6	6.6	6.6	81.6	82.1	81.9	3.5	3.4	3.4		4.3	4.2	4.3	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.7	6.7	6.7	83.1	83.2	83.2	3.5	3.5	3.5	3.6	4.6	4.8	4.7	4.6
					Bottom	16.8	16.9	16.9	29.9	29.9	29.9	6.3	6.4	6.3	78.3	78.7	78.5	3.7	3.7	3.7		5.0	4.8	4.9	
E9	0944-1000	17.0	E	0.3	Surface	16.9	16.9	16.9	29.8	29.9	29.9	6.7	6.7	6.7	82.4	82.7	82.6	3.3	3.3	3.3		4.2	4.1	4.2	
					Middle	16.9	16.9	16.9	29.8	29.9	29.9	6.5	6.4	6.4	80.0	79.3	79.7	3.7	3.7	3.7	3.7	4.7	4.7	4.7	4.6
					Bottom	16.8	16.8	16.8	29.9	29.9	29.9	6.1	6.0	6.0	75.0	71.8	73.4	4.2	4.1	4.2		4.9	4.7	4.8	
S2	1005-1021	11.0	E	0.4	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.9	6.8	6.8	84.8	84.1	84.5	2.5	2.5	2.5		3.2	3.2	3.2	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.6	6.6	6.6	81.1	81.5	81.3	3.2	3.2	3.2	3.0	3.7	3.7	3.7	3.7
					Bottom	16.8	16.8	16.8	29.9	29.9	29.9	6.2	6.3	6.3	77.2	77.7	77.5	3.4	3.4	3.4		4.0	4.1	4.1	
G2	1025-1041	13.0	E	0.4	Surface	16.9	16.9	16.9	29.8	29.8	29.8	6.7	6.7	6.7	83.4	83.1	83.3	3.2	3.2	3.2		3.7	3.8	3.8	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.6	6.5	6.6	81.5	80.9	81.2	3.3	3.3	3.3	3.4	4.1	4.1	4.1	4.1
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.6	6.7	6.7	82.0	82.7	82.4	3.6	3.5	3.6		4.6	4.4	4.5	
S3	1045-1100	11.0	E	0.4	Surface	16.9	16.9	16.9	29.9	29.9	29.9	6.8	6.8	6.8	84.4	84.6	84.5	3.2	3.2	3.2		3.8	3.7	3.8	
					Middle	16.9	16.8	16.9	29.8	29.9	29.9	6.5	6.4	6.4	80.1	79.3	79.7	3.5	3.4	3.4	3.4	4.3	4.1	4.2	4.2
					Bottom	16.8	16.8	16.8	29.9	29.9	29.9	6.9	6.4	6.7	78.4	79.0	78.7	3.6	3.8	3.7		4.5	4.7	4.6	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 29-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)						
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**			
C1	1443-1500	36.4	W	0.3	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.8	6.9	6.8	84.5	84.9	84.7	2.5	2.5	2.5					3.2	3.1	3.2	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.6	6.7	6.7	82.1	82.4	82.3	3.2	3.3	3.2	3.2	3.6	3.7	3.7	3.7			
					Bottom	16.8	16.9	16.9	29.9	29.9	29.9	6.5	6.5	6.5	79.8	80.0	79.9	3.9	3.8	3.9					4.4	4.3	4.4	
E8	1428-1441	17.8	W	0.4	Surface	16.8	16.9	16.9	29.8	29.8	29.8	6.7	6.7	6.7	82.6	82.8	82.7	2.4	2.4	2.4					2.9	2.9	2.9	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.5	6.4	6.5	80.3	79.4	79.9	3.9	4.0	3.9	3.3	4.8	5.0	4.9	4.2			
					Bottom	16.9	16.8	16.9	29.9	29.9	29.9	6.4	6.4	6.4	79.2	79.5	79.4	3.6	3.6	3.6					4.6	4.7	4.7	
S1	1407-1423	9.4	W	0.4	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.7	6.7	6.7	83.0	83.4	83.2	2.5	2.4	2.4					3.2	3.2	3.2	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.4	6.4	6.4	78.5	78.8	78.7	3.7	3.8	3.8	3.6	4.6	4.7	4.7	4.4			
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.9	6.8	6.8	85.1	84.4	84.8	4.5	4.5	4.5					5.4	5.4	5.4	
G1	1345-1400	12.0	W	0.3	Surface	16.8	16.8	16.8	29.8	29.8	29.8	6.6	6.7	6.6	81.8	82.6	82.2	2.5	2.4	2.4					3.2	3.1	3.2	
					Middle	16.8	16.9	16.9	29.9	29.9	29.9	6.4	6.5	6.5	79.4	80.3	79.9	3.0	3.1	3.0	2.9	3.6	3.7	3.7	3.6			
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.2	6.1	6.1	76.2	75.6	75.9	3.2	3.2	3.2					3.9	3.9	3.9	
E7	1316-1336	13.2	W	0.3	Surface	16.9	16.9	16.9	29.7	29.8	29.8	6.8	6.7	6.7	83.6	82.9	83.3	2.7	2.7	2.7					3.3	3.4	3.4	
					Middle	16.8	16.8	16.8	29.9	29.9	29.9	6.7	6.6	6.7	82.5	82.0	82.3	3.1	3.0	3.0	3.0	3.8	3.8	3.8	3.8			
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.2	6.3	6.2	76.7	77.8	77.3	3.4	3.3	3.4					4.2	4.1	4.2	
F1	1252-1311	12.4	W	0.3	Surface	16.9	16.9	16.9	29.8	29.8	29.8	6.8	6.8	6.8	84.7	84.6	84.7	2.4	2.3	2.4					2.9	2.8	2.9	
					Middle	16.9	16.8	16.9	29.8	29.9	29.9	6.4	6.5	6.4	79.7	79.8	79.8	3.8	3.8	3.8	3.6	4.2	4.4	4.3	4.2			
					Bottom	16.9	16.9	16.9	29.9	29.9	29.9	6.2	6.2	6.2	76.9	77.2	77.1	4.6	4.6	4.6					5.6	5.5	5.6	
G3	1231-1246	16.2	W	0.3	Surface	16.9	16.9	16.9	29.7	29.7	29.7	7.0	6.9	7.0	86.1	85.8	86.0	2.4	2.5	2.5					3.0	3.1	3.1	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.5	6.5	6.5	80.8	80.6	80.7	3.4	3.3	3.4	3.0	4.3	4.2	4.3	3.8			
					Bottom	16.9	16.9	16.9	30.0	29.9	30.0	6.3	6.3	6.3	78.0	77.9	78.0	3.1	3.1	3.1					4.0	4.1	4.1	
E9	1209-1223	13.4	W	0.4	Surface	16.9	16.9	16.9	29.7	29.7	29.7	6.8	6.9	6.8	84.7	84.9	84.8	2.6	2.6	2.6					3.2	3.2	3.2	
					Middle	16.9	16.9	16.9	29.9	29.9	29.9	6.7	6.8	6.7	82.9	84.0	83.5	3.5	3.4	3.5	3.3	4.3	4.4	4.4	4.2			
					Bottom	16.8	16.8	16.8	29.9	30.0	30.0	6.3	6.4	6.4	78.3	79.1	78.7	3.9	3.8	3.9					5.0	4.9	5.0	
S2	1143-1206	12.0	W	0.4	Surface	17.0	17.0	17.0	29.8	29.8	29.8	7.0	6.9	6.9	86.1	85.7	85.9	3.1	3.2	3.2					3.6	3.7	3.7	
					Middle	16.9	16.9	16.9	29.8	29.8	29.8	6.5	6.6	6.5	80.7	81.1	80.9	3.8	3.7	3.7	3.7	4.7	4.5	4.6	4.4			
					Bottom	16.9	16.8	16.9	29.9	29.9	29.9	6.3	6.4	6.4	78.4	78.9	78.7	4.1	4.2	4.2					4.9	5.2	5.1	
G2	1123-1140	14.0	W	0.3	Surface	17.0	16.9	17.0	29.8	29.7	29.8	6.9	6.9	6.9	85.8	85.9	85.9	3.3	3.2	3.3					4.2	3.9	4.1	
					Middle	16.9	16.9	16.9	29.8	29.9	29.9	6.6	6.6	6.6	81.9	82.1	82.0	3.5	3.4	3.4	3.5	4.3	4.3	4.3	4.4			
					Bottom	16.8	16.8	16.8	29.9	29.9	29.9	6.6	6.6	6.6	81.8	81.7	81.8	3.7	3.7	3.7					4.7	4.7	4.7	
S3	1100-1116	12.0	W	0.3	Surface	16.9	16.9	16.9	29.7	29.7	29.7	6.9	7.0	6.9	85.6	86.1	85.9	3.2	3.2	3.2					3.9	4.0	4.0	
					Middle	16.9	16.9	16.9	29.8	29.9	29.9	6.7	6.7	6.7	83.4	82.9	83.2	3.5	3.5	3.5	3.5	4.3	4.4	4.4	4.3			
					Bottom	16.9	16.8	16.9	30.0	30.0	30.0	6.4	6.5	6.5	79.7	80.1	79.9	3.8	3.8	3.8					4.6	4.8	4.7	

Remark or Observation:

Note: * Average

** Depth Average

Date: 29-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1500-1517	36.6	W	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.8	6.8	83.4	83.9	83.7	3.8	3.7	3.7		5.0	4.8	4.9	
					Middle	17.1	17.0	17.1	30.3	30.3	30.3	6.6	6.6	6.6	82.2	81.7	82.0	3.8	3.9	3.9	3.9	4.6	4.8	4.7	4.9
					Bottom	17.0	17.0	17.0	30.4	30.4	30.4	6.5	6.5	6.5	80.1	80.7	80.4	4.0	4.1	4.0		4.9	5.0	5.0	
E8	1524-1540	19.8	W	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.6	6.7	82.7	81.9	82.3	3.8	3.8	3.8		4.7	4.6	4.7	
					Middle	17.1	17.0	17.1	30.3	30.3	30.3	6.5	6.6	6.6	80.9	81.5	81.2	4.0	4.0	4.0	4.0	5.0	5.2	5.1	5.1
					Bottom	17.0	17.0	17.0	30.3	30.4	30.4	6.4	6.5	6.4	79.4	79.9	79.7	4.1	4.1	4.1		5.3	5.5	5.4	
S1	1543-1603	10.2	W	0.3	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.7	6.7	82.4	83.3	82.9	3.8	3.7	3.7		4.9	4.8	4.9	
					Middle	17.1	17.1	17.1	30.3	30.3	30.3	6.6	6.6	6.6	81.8	81.4	81.6	3.8	3.9	3.8	3.8	5.0	5.0	5.0	5.0
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.6	6.5	6.5	81.0	80.4	80.7	3.9	4.0	4.0		5.3	5.2	5.3	
G1	1606-1622	11.4	W	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.8	6.8	6.8	83.5	84.4	84.0	3.8	3.9	3.9		4.6	4.6	4.6	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.9	6.8	6.9	85.1	84.6	84.9	4.0	4.1	4.1	4.1	5.0	5.1	5.1	5.0
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.9	6.9	6.9	85.6	84.9	85.3	4.2	4.3	4.2		5.3	5.4	5.4	
E7	1630-1646	12.6	W	0.4	Surface	17.1	7.1	12.1	30.2	30.2	30.2	6.7	6.7	6.7	82.7	83.3	83.0	3.7	3.6	3.7		4.5	4.4	4.5	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.8	6.8	6.8	84.1	84.6	84.4	3.8	3.7	3.8	3.7	4.9	4.7	4.8	4.7
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.9	6.8	6.9	85.1	84.4	84.8	3.9	3.8	3.8		4.9	4.8	4.9	
F1	1653-1710	12.0	W	0.3	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.8	6.8	83.3	83.8	83.6	3.5	3.6	3.6		4.2	4.3	4.3	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.8	6.8	6.8	84.5	84.1	84.3	3.6	3.7	3.7	3.7	4.5	4.5	4.5	4.6
					Bottom	17.1	17.1	17.1	30.3	30.3	30.3	6.9	6.9	6.9	84.9	85.5	85.2	3.7	3.8	3.7		4.9	5.0	5.0	
G3	1720-1736	15.2	W	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.2	81.9	81.6	3.5	3.5	3.5		4.6	4.6	4.6	
					Middle	17.1	17.1	17.1	30.2	30.3	30.3	6.7	6.7	6.7	82.7	83.4	83.1	3.6	3.7	3.6	3.6	4.8	4.8	4.8	4.8
					Bottom	17.1	17.0	17.1	30.3	30.4	30.4	6.8	6.8	6.8	84.1	84.6	84.4	3.7	3.8	3.8		5.0	4.8	4.9	
E9	1743-1800	18.4	W	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	82.0	81.5	81.8	3.6	3.6	3.6		4.5	4.4	4.5	
					Middle	17.1	17.0	17.1	30.2	30.3	30.3	6.7	6.8	6.8	83.2	83.9	83.6	3.7	3.7	3.7	3.7	4.6	4.8	4.7	4.8
					Bottom	17.0	17.0	17.0	30.4	30.4	30.4	6.9	6.9	6.9	84.8	85.4	85.1	3.8	3.9	3.8		5.0	5.2	5.1	
S2	1806-1822	11.0	W	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.7	6.7	83.3	82.9	83.1	3.7	3.8	3.8		4.5	4.6	4.6	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.9	6.9	6.9	84.8	85.9	85.4	4.0	4.0	4.0	4.0	5.1	5.2	5.2	5.0
					Bottom	17.0	17.0	17.0	30.2	30.3	30.3	6.9	7.0	6.9	85.6	86.0	85.8	4.2	4.3	4.3		5.3	5.4	5.4	
G2	1825-1839	13.6	W	0.6	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.6	6.7	82.8	81.9	82.4	3.6	3.7	3.7		4.6	4.6	4.6	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.8	6.7	83.2	83.5	83.4	3.6	3.5	3.6	3.7	4.5	4.6	4.6	4.7
					Bottom	17.0	17.1	17.1	30.3	30.3	30.3	6.8	6.9	6.9	84.5	85.1	84.8	3.7	3.8	3.8		4.9	5.0	5.0	
S3	1844-1900	10.8	W	0.6	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.4	82.0	81.7	3.6	3.6	3.6		4.8	4.5	4.7	
					Middle	17.1	17.1	17.1	30.1	30.2	30.2	6.7	6.7	6.7	82.8	83.4	83.1	3.5	3.5	3.5	3.5	4.6	4.5	4.6	4.6
					Bottom	17.0	17.0	17.0	30.1	30.1	30.1	6.8	6.9	6.8	84.0	84.8	84.4	3.4	3.5	3.5		4.5	4.6	4.6	

Remark or Observation:

Note: * Average

** Depth Average

Date: 29-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	2245-2300	36.2	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.5	6.5	6.5	80.1	80.9	80.5	3.6	3.7	3.7		4.4	4.5	4.5	
					Middle	17.1	17.0	17.1	30.3	30.3	30.3	6.6	6.7	6.6	81.8	82.7	82.3	3.7	3.8	3.8	3.8	4.6	4.7	4.7	4.6
					Bottom	17.0	17.0	17.0	30.3	30.4	30.4	6.5	6.6	6.6	80.9	82.0	81.5	3.9	3.9	3.9		4.5	4.6	4.6	
E8	2225-2239	19.6	E	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.2	81.4	81.3	3.8	3.8	3.8		4.5	4.4	4.5	
					Middle	17.1	17.0	17.1	30.2	30.3	30.3	6.6	6.7	6.7	82.0	82.7	82.4	3.9	3.9	3.9	4.0	4.9	5.0	5.0	4.9
					Bottom	17.1	17.0	17.1	30.3	30.3	30.3	6.8	6.8	6.8	83.9	84.1	84.0	4.1	4.2	4.1		5.3	5.5	5.4	
S1	2203-2220	10.0	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.5	6.5	6.5	80.4	80.9	80.7	3.6	3.7	3.7		4.5	4.6	4.6	
					Middle	17.1	17.0	17.1	30.3	30.3	30.3	6.7	6.7	6.7	82.7	83.3	83.0	3.7	3.8	3.8	3.7	4.8	4.9	4.9	4.8
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.8	6.8	6.8	84.0	84.6	84.3	3.9	3.8	3.8		5.2	5.0	5.1	
G1	2140-2158	11.2	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.7	6.7	82.7	83.3	83.0	3.7	3.8	3.7		4.6	4.6	4.6	
					Middle	17.1	17.1	17.1	30.2	30.3	30.3	6.9	6.9	6.9	84.8	85.3	85.1	3.9	3.9	3.9	3.9	4.9	5.0	5.0	5.0
					Bottom	17.1	17.0	17.1	30.3	30.3	30.3	6.9	6.8	6.9	85.4	84.4	84.9	4.0	4.1	4.1		5.3	5.4	5.4	
E7	2117-2135	12.4	E	0.3	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.5	82.0	81.8	3.5	3.5	3.5		4.1	4.2	4.2	
					Middle	17.1	17.0	17.1	30.2	30.2	30.2	6.7	6.8	6.7	82.7	83.5	83.1	3.6	3.7	3.6	3.6	4.6	4.7	4.7	4.6
					Bottom	17.0	17.0	17.0	30.2	30.3	30.3	6.8	6.8	6.8	84.6	84.1	84.4	3.7	3.8	3.7		4.9	5.1	5.0	
F1	2052-2109	11.8	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.5	82.0	81.8	3.6	3.7	3.6		4.2	4.4	4.3	
					Middle	17.0	17.0	17.0	30.2	30.2	30.2	6.7	6.8	6.8	83.4	83.9	83.7	3.7	3.8	3.8	3.8	4.7	4.8	4.8	4.8
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.8	6.9	6.8	84.4	84.8	84.6	3.8	3.9	3.9		5.2	5.2	5.2	
G3	2030-2046	15.0	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.5	6.6	6.6	80.7	81.4	81.1	3.4	3.5	3.4		4.3	4.4	4.4	
					Middle	17.1	17.0	17.1	30.2	30.2	30.2	6.6	6.7	6.7	82.0	82.9	82.5	3.5	3.6	3.6	3.6	4.6	4.7	4.7	4.6
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.7	6.7	6.7	82.8	83.3	83.1	3.6	3.7	3.7		4.8	4.9	4.9	
E9	2006-2022	18.0	E	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.2	81.8	81.5	3.4	3.5	3.5		4.6	4.7	4.7	
					Middle	17.0	17.0	17.0	30.2	30.3	30.3	6.7	6.7	6.7	83.0	82.7	82.9	3.6	3.6	3.6	3.6	4.7	4.6	4.7	4.8
					Bottom	17.0	17.0	17.0	30.3	30.4	30.4	6.8	6.8	6.8	83.5	84.1	83.8	3.7	3.8	3.7		4.9	5.1	5.0	
S2	1942-2002	10.6	E	0.4	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.6	6.6	82.3	81.8	82.1	3.7	3.7	3.7		4.8	4.8	4.8	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.8	6.8	83.3	83.9	83.6	3.8	3.9	3.9	3.9	5.0	5.2	5.1	5.1
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.8	6.8	6.8	84.6	84.1	84.4	4.1	4.2	4.1		5.3	5.4	5.4	
G2	1923-1938	13.2	E	0.5	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.6	6.6	6.6	81.2	81.5	81.4	3.6	3.6	3.6		4.4	4.5	4.5	
					Middle	17.0	17.1	17.1	30.2	30.2	30.2	6.7	6.7	6.7	82.7	83.0	82.9	3.5	3.5	3.5	3.6	4.4	4.4	4.4	4.5
					Bottom	17.0	17.0	17.0	30.3	30.3	30.3	6.8	6.9	6.8	83.9	84.8	84.4	3.7	3.7	3.7		4.7	4.8	4.8	
S3	1900-1915	10.6	E	0.6	Surface	17.1	17.1	17.1	30.2	30.2	30.2	6.7	6.6	6.6	82.3	81.8	82.1	3.6	3.6	3.6		4.4	4.6	4.5	
					Middle	17.1	17.0	17.1	30.1	30.1	30.1	6.7	6.7	6.7	82.4	83.3	82.9	3.6	3.7	3.7	3.6	4.5	4.7	4.6	4.7
					Bottom	17.0	17.0	17.0	30.1	30.1	30.1	6.8	6.8	6.8	84.3	83.6	84.0	3.5	3.6	3.6		4.8	5.0	4.9	

Remark or Observation:

Note: * Average

** Depth Average

Date: 30-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	0710-0725	36.7	W	0.4	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.0	7.0	7.0	87.0	86.8	86.9	3.4	3.4	3.4		4.2	4.3	4.3	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.8	6.8	6.8	85.1	84.9	85.0	3.6	3.6	3.6	3.5	4.5	4.4	4.5	4.4
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.8	6.7	6.7	84.2	84.0	84.1	3.4	3.4	3.4		4.4	4.5	4.5	
E8	0730-0746	19.7	W	0.3	Surface	17.0	17.0	17.0	30.0	30.0	30.0	7.0	7.1	7.1	87.3	87.5	87.4	3.2	3.2	3.2		3.9	4.0	4.0	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.9	7.0	7.0	86.3	86.5	86.4	3.6	3.6	3.6	3.4	4.3	4.4	4.4	4.3
					Bottom	17.3	17.4	17.4	30.3	30.3	30.3	6.7	6.7	6.7	83.9	83.6	83.8	3.4	3.5	3.4		4.4	4.5	4.5	
S1	0751-0807	10.4	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.1	7.1	7.1	88.2	88.0	88.1	3.1	3.1	3.1		3.7	3.7	3.7	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.6	6.6	6.6	85.5	85.4	85.5	3.5	3.5	3.5	3.4	4.2	4.3	4.3	4.1
					Bottom	17.3	17.4	17.4	30.3	30.3	30.3	6.7	6.8	6.8	84.1	84.4	84.3	3.4	3.5	3.4		4.3	4.3	4.3	
G1	0812-0828	11.4	W	0.4	Surface	17.1	17.1	17.1	30.0	30.1	30.1	6.9	6.9	6.9	85.8	86.0	85.9	3.0	3.0	3.0		3.4	3.6	3.5	
					Middle	17.2	17.3	17.3	30.2	30.2	30.2	6.7	6.8	6.7	83.7	83.9	83.8	2.9	2.9	2.9	3.0	3.6	3.7	3.7	3.6
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.6	6.6	6.6	82.6	82.4	82.5	3.0	3.1	3.1		3.7	3.8	3.8	
E7	0833-0850	13.0	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.1	7.2	7.2	88.5	88.8	88.7	2.7	2.7	2.7		3.5	3.4	3.5	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.9	6.9	6.9	86.1	86.3	86.2	2.9	2.9	2.9	2.9	3.7	3.7	3.7	3.7
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.9	84.1	84.0	3.0	3.0	3.0		3.8	4.0	3.9	
F1	0855-0911	12.0	W	0.3	Surface	17.1	17.0	17.1	30.0	30.1	30.1	7.1	7.1	7.1	87.7	87.9	87.8	2.6	2.7	2.7		3.4	3.5	3.5	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.9	7.0	7.0	86.3	86.5	86.4	2.8	2.9	2.9	2.9	3.7	3.7	3.7	3.7
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.8	6.8	6.8	84.7	84.9	84.8	3.1	3.1	3.1		3.8	3.8	3.8	
G3	0916-0933	15.6	W	0.4	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.2	7.2	7.2	89.5	89.7	89.6	2.7	2.7	2.7		3.4	3.6	3.5	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	6.8	6.8	6.8	84.5	84.7	84.6	2.9	3.0	3.0	2.8	3.7	3.8	3.8	3.7
					Bottom	17.3	17.4	17.4	30.4	30.4	30.4	6.8	6.8	6.8	85.4	85.1	85.3	2.9	2.9	2.9		4.0	3.9	4.0	
E9	0938-0954	18.9	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.1	7.1	7.1	88.2	88.0	88.1	2.7	2.8	2.8		3.4	3.5	3.5	
					Middle	17.1	17.1	17.1	30.1	30.2	30.2	6.8	6.9	6.9	85.1	85.3	85.2	2.9	2.9	2.9	2.7	3.8	3.8	3.8	3.6
					Bottom	17.2	17.3	17.3	30.3	30.3	30.3	6.7	6.8	6.7	84.0	84.3	84.2	2.5	2.5	2.5		3.4	3.5	3.5	
S2	1000-1017	10.6	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	6.9	6.9	6.9	85.6	85.4	85.5	3.1	3.1	3.1		3.5	3.6	3.6	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.5	6.5	6.5	81.4	81.1	81.3	3.5	3.5	3.5	3.4	3.8	3.9	3.9	3.7
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.4	6.4	6.4	80.1	80.0	80.1	3.5	3.4	3.5		3.8	3.7	3.8	
G2	1022-1039	13.3	W	0.4	Surface	17.1	17.2	17.2	30.0	30.0	30.0	6.9	6.9	6.9	86.1	85.8	86.0	3.1	3.1	3.1		3.6	3.6	3.6	
					Middle	17.3	17.4	17.4	30.1	30.2	30.2	6.8	6.8	6.8	84.6	84.2	84.4	3.3	3.3	3.3	3.2	3.7	3.8	3.8	3.7
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.7	6.7	6.7	83.7	83.5	83.6	3.3	3.4	3.4		3.6	3.8	3.7	
S3	1045-1100	12.7	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.0	7.0	7.0	86.4	86.6	86.5	3.3	3.4	3.4		3.8	3.8	3.8	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.8	6.9	6.8	85.1	85.2	85.2	3.3	3.4	3.4	3.4	3.7	3.8	3.8	3.8
					Bottom	17.3	17.4	17.4	30.4	30.4	30.4	6.7	6.8	6.7	84.0	84.2	84.1	3.5	3.5	3.5		3.9	3.9	3.9	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 30-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1445-1500	36.0	W	0.4	Surface	17.1	17.1	17.1	30.1	30.1	30.1	7.1	7.1	7.1	88.0	87.9	88.0	3.2	3.3	3.2		3.5	3.5	3.5	
					Middle	17.3	17.2	17.3	30.1	30.2	30.2	6.9	6.8	6.8	85.2	84.5	84.9	3.3	3.3	3.3	3.0	3.6	3.6	3.6	3.4
					Bottom	17.3	17.3	17.3	30.4	30.3	30.4	6.7	6.7	6.7	83.7	84.1	83.9	2.3	2.3	2.3		2.9	3.0	3.0	
E8	1423-1439	19.3	W	0.5	Surface	17.1	17.1	17.1	30.0	30.0	30.0	7.0	7.0	7.0	87.1	86.9	87.0	3.2	3.2	3.2		3.8	3.7	3.8	
					Middle	17.3	17.2	17.3	30.1	30.2	30.2	7.0	6.9	7.0	86.8	86.3	86.6	3.1	3.2	3.2	3.2	3.7	3.8	3.8	3.8
					Bottom	17.4	17.3	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.2	82.9	83.1	3.2	3.3	3.3		3.9	3.9	3.9	
S1	1402-1418	10.2	W	0.5	Surface	17.0	17.1	17.1	30.1	30.0	30.1	7.1	7.0	7.0	87.4	87.3	87.4	3.1	3.1	3.1		3.5	3.6	3.6	
					Middle	17.2	17.3	17.3	30.1	30.1	30.1	6.9	6.8	6.9	85.4	85.1	85.3	3.1	3.1	3.1	3.1	3.6	3.7	3.7	3.7
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.7	6.7	6.7	84.1	83.6	83.9	3.2	3.2	3.2		3.8	3.8	3.8	
G1	1337-1354	11.4	W	0.4	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.0	7.0	87.1	86.9	87.0	3.1	3.2	3.1		3.5	3.6	3.6	
					Middle	17.2	17.3	17.3	30.2	30.2	30.2	6.9	6.9	6.9	85.9	86.3	86.1	3.1	3.0	3.1	3.1	3.4	3.4	3.4	3.5
					Bottom	17.3	17.3	17.3	30.3	30.3	30.3	6.8	6.8	6.8	84.6	84.9	84.8	3.1	3.2	3.1		3.5	3.6	3.6	
E7	1315-1332	13.2	W	0.4	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.1	7.1	7.1	87.8	87.4	87.6	3.1	3.1	3.1		3.6	3.5	3.6	
					Middle	17.3	17.2	17.3	30.2	30.1	30.2	6.9	6.9	6.9	85.8	85.5	85.7	3.1	3.1	3.1	3.1	3.6	3.4	3.5	3.6
					Bottom	17.4	17.3	17.4	30.4	30.4	30.4	6.8	6.8	6.8	84.2	84.6	84.4	3.1	3.1	3.1		3.6	3.7	3.7	
F1	1251-1307	12.6	W	0.5	Surface	17.1	17.0	17.1	30.0	30.0	30.0	7.1	7.1	7.1	88.2	88.0	88.1	3.0	3.1	3.1		3.6	3.5	3.6	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	85.3	85.7	85.5	3.1	3.1	3.1	3.1	3.4	3.4	3.4	3.5
					Bottom	17.4	17.3	17.4	30.3	30.3	30.3	6.9	6.8	6.9	85.7	85.4	85.6	3.2	3.2	3.2		3.4	3.5	3.5	
G3	1228-1244	15.4	W	0.4	Surface	17.0	17.1	17.1	30.1	30.0	30.1	7.0	7.1	7.0	87.3	87.4	87.4	3.2	3.2	3.2		3.6	3.6	3.6	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	7.0	7.0	7.0	86.5	86.8	86.7	3.3	3.3	3.3	3.3	3.7	3.8	3.8	3.7
					Bottom	17.3	17.4	17.4	30.4	30.3	30.4	6.9	6.9	6.9	86.2	85.8	86.0	3.3	3.4	3.4		3.7	3.9	3.8	
E9	1205-1220	18.2	W	0.4	Surface	17.1	17.0	17.1	30.0	30.0	30.0	7.1	7.1	7.1	87.7	88.0	87.9	3.2	3.3	3.2		3.4	3.5	3.5	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	7.2	7.2	7.2	89.6	89.9	89.8	3.3	3.3	3.3	3.3	3.6	3.7	3.7	3.6
					Bottom	17.2	17.4	17.3	30.4	30.4	30.4	7.2	7.2	7.2	89.8	89.4	89.6	3.2	3.3	3.2		3.6	3.8	3.7	
S2	1144-1200	11.6	W	0.5	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.2	7.3	7.2	89.6	89.9	89.8	3.1	3.1	3.1		3.6	3.7	3.7	
					Middle	17.3	17.2	17.3	30.1	30.2	30.2	7.2	7.2	7.2	89.2	89.6	89.4	3.1	3.1	3.1	3.2	3.8	3.8	3.8	3.9
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	7.1	7.1	7.1	87.9	88.3	88.1	3.3	3.3	3.3		4.3	4.2	4.3	
G2	1124-1139	13.4	W	0.4	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.1	7.1	7.1	87.5	87.9	87.7	3.2	3.2	3.2		3.4	3.5	3.5	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.9	6.9	6.9	86.3	85.8	86.1	3.2	3.2	3.2	3.3	3.5	3.6	3.6	3.8
					Bottom	17.4	17.3	17.4	30.3	30.4	30.4	6.8	6.8	6.8	84.8	84.6	84.7	3.5	3.5	3.5		4.3	4.4	4.4	
S3	1100-1116	10.6	W	0.4	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.1	7.1	7.1	88.0	87.5	87.8	3.1	3.1	3.1		3.6	3.6	3.6	
					Middle	17.2	17.3	17.3	30.2	30.3	30.3	6.8	6.9	6.9	85.1	85.3	85.2	3.3	3.2	3.2	3.3	3.7	3.8	3.8	3.8
					Bottom	17.4	17.3	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.2	83.6	83.4	3.4	3.4	3.4		3.8	4.0	3.9	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 30-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	1500-1517	37.0	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.1	7.1	87.3	87.5	87.4	3.3	3.3	3.3		3.6	3.6	3.6	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.9	6.9	6.9	85.5	85.8	85.7	3.6	3.6	3.6	3.4	4.4	4.5	4.5	4.2
					Bottom	17.3	17.4	17.4	30.3	30.3	30.3	6.8	6.8	6.8	84.5	84.7	84.6	3.3	3.3	3.3		4.4	4.4	4.4	
E8	1522-1539	20.0	W	0.3	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.1	7.1	7.1	87.9	88.1	88.0	3.2	3.2	3.2		4.3	4.2	4.3	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	7.0	7.0	7.0	87.0	86.8	86.9	3.5	3.5	3.5	3.4	4.5	4.4	4.5	4.3
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.8	6.8	6.8	84.2	84.4	84.3	3.4	3.4	3.4		4.3	4.2	4.3	
S1	1544-1600	10.6	W	0.4	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.1	7.2	7.2	88.5	88.8	88.7	3.0	3.0	3.0		3.5	3.5	3.5	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	86.0	86.3	86.2	3.5	3.5	3.5	3.3	4.0	4.0	4.0	3.8
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.8	6.8	6.8	84.9	85.1	85.0	3.4	3.4	3.4		4.0	4.0	4.0	
G1	1605-1622	11.6	W	0.3	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.0	7.0	86.7	86.9	86.8	2.9	3.0	3.0		3.4	3.6	3.5	
					Middle	17.1	17.1	17.1	30.2	30.2	30.2	6.8	6.8	6.8	84.6	84.7	84.7	2.8	2.8	2.8	2.9	3.4	3.5	3.5	3.5
					Bottom	17.2	17.3	17.3	30.3	30.4	30.4	6.7	6.6	6.7	83.1	82.9	83.0	3.0	3.0	3.0		3.6	3.5	3.6	
E7	1627-1643	12.8	W	0.3	Surface	17.1	17.2	17.2	30.0	30.1	30.1	7.1	7.0	7.1	88.3	88.1	88.2	2.7	2.8	2.7		3.3	3.2	3.3	
					Middle	17.3	17.3	17.3	30.2	30.3	30.3	6.9	6.9	6.9	85.8	85.6	85.7	3.0	3.0	3.0	2.9	3.5	3.7	3.6	3.5
					Bottom	17.4	17.3	17.4	30.4	30.4	30.4	6.7	6.7	6.7	83.2	83.5	83.4	3.0	3.0	3.0		3.6	3.6	3.6	
F1	1648-1705	11.7	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.0	7.0	7.0	87.0	87.3	87.2	2.7	2.7	2.7		3.4	3.5	3.5	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.9	6.9	6.9	86.1	85.9	86.0	2.9	2.9	2.9	2.9	3.7	3.7	3.7	3.7
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.7	6.8	6.7	84.0	84.2	84.1	3.1	3.1	3.1		3.9	3.9	3.9	
G3	1710-1728	15.4	W	0.4	Surface	17.1	17.0	17.1	30.0	30.1	30.1	7.1	7.2	7.2	88.5	88.9	88.7	2.7	2.7	2.7		3.3	3.3	3.3	
					Middle	17.1	17.2	17.2	30.2	30.3	30.3	6.7	6.7	6.7	83.7	83.5	83.6	3.0	3.0	3.0	2.9	3.6	3.8	3.7	3.5
					Bottom	17.3	17.4	17.4	30.4	30.5	30.5	6.8	6.8	6.8	85.1	84.9	85.0	2.9	3.0	3.0		3.6	3.5	3.6	
E9	1733-1750	18.6	W	0.3	Surface	17.0	17.1	17.1	30.1	30.0	30.1	7.0	7.1	7.1	87.3	87.5	87.4	2.8	2.8	2.8		3.6	3.6	3.6	
					Middle	17.2	17.1	17.2	30.2	30.2	30.2	6.8	6.8	6.8	84.8	84.6	84.7	3.0	3.0	3.0	2.8	3.5	3.5	3.5	3.5
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.7	6.7	6.7	83.2	83.4	83.3	2.5	2.6	2.6		3.2	3.3	3.3	
S2	1755-1813	10.8	W	0.3	Surface	17.0	17.1	17.1	30.0	30.1	30.1	7.0	6.9	7.0	85.8	86.0	85.9	3.1	3.1	3.1		3.4	3.5	3.5	
					Middle	17.1	17.2	17.2	30.2	30.2	30.2	6.6	6.6	6.6	81.7	81.9	81.8	3.4	3.4	3.4	3.3	3.8	3.7	3.8	3.6
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.4	6.5	6.5	80.4	80.7	80.6	3.4	3.4	3.4		3.5	3.6	3.6	
G2	1818-1835	13.6	W	0.3	Surface	17.0	17.1	17.1	30.1	30.0	30.1	7.0	7.0	7.0	86.4	86.6	86.5	3.0	3.0	3.0		3.5	3.5	3.5	
					Middle	17.2	17.2	17.2	30.2	30.3	30.3	6.8	6.8	6.8	84.8	84.6	84.7	3.2	3.2	3.2	3.2	3.7	3.7	3.7	3.7
					Bottom	17.3	17.4	17.4	30.4	30.5	30.5	6.7	6.8	6.8	84.1	84.4	84.3	3.3	3.3	3.3		3.8	4.0	3.9	
S3	1843-1900	11.0	W	0.4	Surface	17.1	17.1	17.1	30.0	30.8	30.4	7.0	7.0	7.0	86.9	87.1	87.0	3.3	3.3	3.3		4.0	3.8	3.9	
					Middle	17.2	17.3	17.3	30.1	30.2	30.2	6.9	6.9	6.9	85.8	85.7	85.8	3.3	3.3	3.3	3.3	3.9	3.9	3.9	4.0
					Bottom	17.4	17.4	17.4	30.3	30.3	30.3	6.8	6.8	6.8	84.6	84.9	84.8	3.4	3.4	3.4		4.0	4.1	4.1	

Remark or Observation:

Note: * Average
 ** Depth Average

Date: 30-Jan-14
 Weather: Fine
 Sea Conditions: Small Wave
 Zone A

Location	Sampling Time	Water Depth (m)	Current direction	Current speed (ms ⁻¹)	Monitoring Depth	Temperature (°C)			Salinity (ppt)			DO (mg/l)			DO Saturation (%)			Turbidity (NTU)				Suspended Solids (mg/l)			
						1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	1	2	Ave.*	D.A.**	1	2	Ave.*	D.A.**
C1	2242-2300	35.4	W	0.5	Surface	17.0	17.0	17.0	30.0	30.0	30.0	7.1	7.1	7.1	88.2	88.6	88.4	3.3	3.3	3.3		3.8	3.9	3.9	
					Middle	17.1	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	86.3	85.8	86.1	3.3	3.3	3.3	3.3	3.8	3.7	3.8	3.8
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.7	6.7	6.7	83.3	82.9	83.1	3.3	3.3	3.3		3.8	3.9	3.9	
E8	2221-2237	19.6	W	0.4	Surface	17.0	17.1	17.1	30.0	30.0	30.0	7.1	7.1	7.1	87.7	88.0	87.9	3.2	3.2	3.2		3.7	3.7	3.7	
					Middle	17.2	17.0	17.1	30.2	30.2	30.2	6.8	6.8	6.8	84.6	84.9	84.8	3.3	3.3	3.3	3.2	3.9	3.8	3.9	3.8
					Bottom	17.3	17.4	17.4	30.4	30.3	30.4	6.7	6.7	6.7	83.7	83.6	83.7	3.2	3.3	3.2		3.7	3.7	3.7	
S1	2158-2214	10.4	W	0.5	Surface	17.0	17.0	17.0	30.0	30.1	30.1	7.0	7.0	7.0	86.9	87.2	87.1	3.1	3.2	3.2		3.5	3.6	3.6	
					Middle	17.1	17.2	17.2	30.1	30.1	30.1	6.9	6.9	6.9	85.3	85.2	85.3	3.2	3.2	3.2	3.2	3.8	4.0	3.9	3.8
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.7	6.7	6.7	83.9	83.6	83.8	3.3	3.3	3.3		4.0	4.0	4.0	
G1	2136-2152	11.7	W	0.4	Surface	17.0	17.0	17.0	30.1	30.0	30.1	7.1	7.1	7.1	87.4	87.7	87.6	3.1	3.1	3.1		3.6	3.7	3.7	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.9	6.9	6.9	85.8	85.6	85.7	3.4	3.4	3.4	3.2	3.9	4.0	4.0	3.8
					Bottom	17.3	17.3	17.3	30.3	30.4	30.4	6.7	6.8	6.7	84.1	84.2	84.2	3.2	3.2	3.2		3.8	3.8	3.8	
E7	2112-2128	12.2	W	0.4	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.1	7.0	7.0	87.4	86.9	87.2	3.1	3.1	3.1		3.7	3.8	3.8	
					Middle	17.3	17.2	17.3	30.2	30.2	30.2	6.9	6.9	6.9	85.9	86.1	86.0	3.3	3.4	3.4	3.3	3.9	4.1	4.0	3.9
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.8	6.7	6.8	84.6	84.1	84.4	3.3	3.3	3.3		3.9	3.8	3.9	
F1	2048-2104	11.5	W	0.4	Surface	17.0	17.0	17.0	30.1	30.1	30.1	7.1	7.2	7.2	88.5	88.8	88.7	3.3	3.3	3.3		3.8	3.7	3.8	
					Middle	17.2	17.2	17.2	30.2	30.2	30.2	6.9	7.0	7.0	86.3	86.6	86.5	3.4	3.5	3.4	3.3	3.9	4.2	4.1	4.0
					Bottom	17.3	17.3	17.3	30.4	30.4	30.4	6.6	6.7	6.7	82.8	83.1	83.0	3.3	3.3	3.3		4.0	4.2	4.1	
G3	2025-2041	13.0	W	0.5	Surface	17.0	17.1	17.1	30.1	30.1	30.1	7.1	7.0	7.1	88.2	88.0	88.1	3.2	3.2	3.2		3.9	3.9	3.9	
					Middle	17.2	17.3	17.3	30.2	30.2	30.2	6.8	6.9	6.8	85.1	85.3	85.2	3.2	3.2	3.2	3.3	3.9	3.9	3.9	3.9
					Bottom	17.4	17.4	17.4	30.4	30.4	30.4	6.7	6.8	6.8	84.1	84.4	84.3	3.3	3.3	3.3		3.8	3.9	3.9	
E9	2003-2018	18.5	W	0.5	Surface	17.0	17.1	17.1	30.1	30.1	30.1	7.1	7.1	7.1	87.7	88.1	87.9	3.2	3.3	3.2		3.7	3.8	3.8	
					Middle	17.3	17.3	17.3	30.2	30.2	30.2	6.7	6.8	6.8	83.8	84.1	84.0	3.1	3.2	3.2	3.2	3.5	3.5	3.5	3.7
					Bottom	17.3	17.4	17.4	30.4	30.3	30.4	6.7	6.6	6.6	82.9	82.7	82.8	3.3	3.3	3.3		3.8	3.9	3.9	
S2	1942-1958	11.0	W	0.4	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.0	7.0	7.0	86.9	86.5	86.7	3.2	3.2	3.2		3.8	3.9	3.9	
					Middle	17.3	17.2	17.3	30.2	30.3	30.3	6.9	6.8	6.8	85.2	84.9	85.1	3.3	3.3	3.3	3.3	3.7	3.8	3.8	3.8
					Bottom	17.4	17.4	17.4	30.3	30.4	30.4	6.7	6.6	6.6	82.9	82.3	82.6	3.2	3.2	3.2		3.6	3.8	3.7	
G2	1922-1937	13.2	W	0.4	Surface	17.1	17.2	17.2	30.0	30.1	30.1	7.0	7.0	7.0	87.0	87.3	87.2	3.1	3.1	3.1		3.8	3.8	3.8	
					Middle	17.3	17.3	17.3	30.2	30.2	30.2	6.8	6.8	6.8	85.1	84.5	84.8	3.2	3.3	3.2	3.2	3.6	3.7	3.7	3.7
					Bottom	17.4	17.4	17.4	30.4	30.3	30.4	6.7	6.7	6.7	83.6	83.3	83.5	3.1	3.1	3.1		3.6	3.6	3.6	
S3	1900-1916	11.4	W	0.3	Surface	17.1	17.1	17.1	30.0	30.1	30.1	7.1	7.1	7.1	88.2	88.0	88.1	3.2	3.2	3.2		3.7	3.6	3.7	
					Middle	17.2	17.2	17.2	30.1	30.2	30.2	6.9	7.0	7.0	86.3	86.8	86.6	3.1	3.1	3.1	3.2	3.6	3.5	3.6	3.6
					Bottom	17.3	17.4	17.4	30.3	30.4	30.4	6.8	6.8	6.8	84.6	84.8	84.7	3.2	3.1	3.1		3.7	3.6	3.7	

Remark or Observation:

Note: * Average

** Depth Average

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