








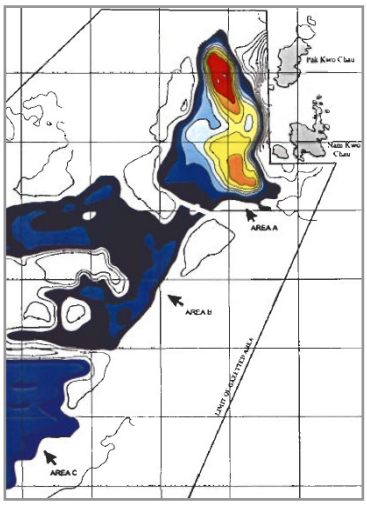

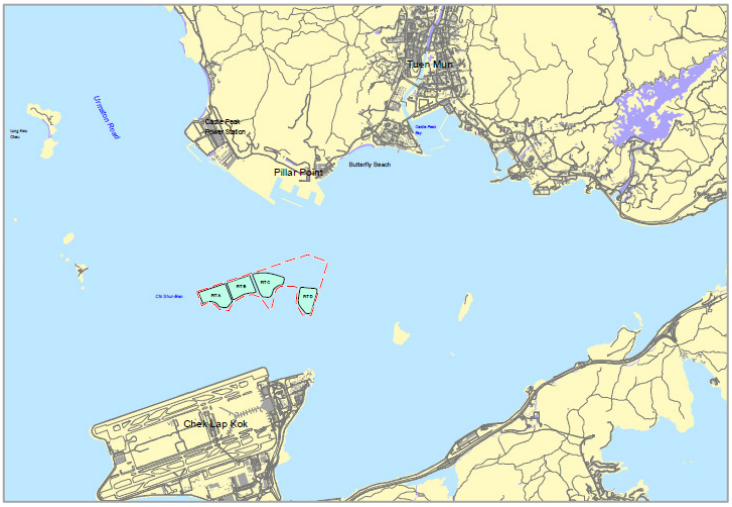

土木工程拓展署
Civil Engineering and Development Department

Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation

Agreement No. CE 4/2009(EP)

Baseline Monitoring Report

2 September 2009

Environmental Resources Management
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Taikoo Place, 979 King's Road
Island East, Hong Kong
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www.erm.com

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Delivering sustainable solutions in a more competitive world

Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation

Baseline Monitoring Report

Document Code: 0103262 CMP5 Baseline Monitoring Report.doc

Environmental Resources Management

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Client:	Proposal No:
Civil Engineering and Development Department (CEDD)	0103262
Summary:	Date: 2 September 2009
This document presents the methodology and findings of the baseline monitoring for dredging activities for construction of CMP V at Sha Chau.	Approved by:  *Dr Robin Kennish* *Environmental Team Leader*

0	Baseline Monitoring Report	JT	CAR	RK	02/09/09
Revision	Description	By	Checked	Approved	Date

Distribution

☒ Internal

☒ Public

☐ Confidential

CONTENTS

LIST OF ANNEXES

EXECUTIVE SUMMARY

The Hong Kong Civil Engineering and Development Department (CEDD) have commissioned ERM-Hong Kong, Ltd (ERM) to undertake baseline water quality monitoring for dredging activities prior to the commencement of construction works for Contaminated Mud Pit V (CMP V) at East of Sha Chau.

This Baseline Monitoring Report has been prepared in compliance with the Environmental Permit (EP-312/2008A) and the Environmental Monitoring and Audit Manual for the Disposal of Contaminated Sediment – Dredging, Management and Capping of Sediment Disposal Facility at Sha Chau.

Baseline water quality monitoring was conducted between 28 July and 23 August 2009 at eighteen designated monitoring stations established for the Project. The monitoring was carried out 3 days per week, at mid-flood and mid-ebb tides, at three depths (surface, middle and bottom), for 4 weeks prior to the commencement of dredging works. No major activities were noted during baseline monitoring. Water quality monitoring results are, therefore, representative of the baseline conditions for the Project.

Results have been used to determine Action and Limit Levels for the dissolved oxygen, suspended solids and turbidity for impact monitoring to be conducted during dredging activities for the Project.

1 INTORDUCTION

The Hong Kong **Civil Engineering and Development Department** (CEDD) have commissioned **ERM-Hong Kong, Ltd** (ERM) supported by Mr Peter Whiteside (Independent Consultant), Halcrow China Ltd (HCL) and Professor Wen-Xiong Wang (Independent Auditor) of the Hong Kong University of Science and Technology (HKUST), to undertake the **Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) – Investigation** (hereafter referred as "the Study"). This Study, awarded under Agreement No. CE 4/2009 (EP), commenced on 8th July 2009.

1.1 BACKGROUND

Since December 1992, the East of Sha Chau area has been the site of a series of dredged contaminated mud pits (CMPs) designed to provide confined marine disposal capacity for contaminated mud arising from the HKSAR's dredging and reclamation projects. The latest group of pits, CMP IVa, b & c began receiving contaminated mud from construction projects on 1 December 1997. CMP IVa was full by March 2000 (7.0 Mm^3 of contaminated mud), CMP IVb was full by May 2002 (12.5 Mm^3 of contaminated mud). CMP IVc is presently in operation for backfilling by contaminated sediments.

As required by the Environment Protection Department (EPD), an environmental monitoring and audit programme was carried out to monitor the operation of the CMP IV under the Project "Management and Capping of Contaminated Mud Pit IV at East of Sha Chau". In this connection, an environmental monitoring and audit programme which encompassed water and sediment chemistry, fisheries assessment, tissue and whole body analysis, sediment toxicity and benthic recolonisation studies have been continuously carried out since the operation of CMP IV. A review of the collection and analysis of such environmental data from the monitoring programme demonstrated that there had not been any adverse environmental impacts resulting from disposal activities (1).

Capacity to dispose of contaminated mud is currently predicted to be exhausted by 2010 with the completion of backfilling of CMP IVc at East of Sha Chau. When CMP IVc is full, a new environmentally acceptable disposal capacity for essential arisings will be required. A capacity of 8 Mm^3 has been estimated as being needed to provide disposal capacity up to 2015. The assignment *Strategic Assessment and Site Selection Study for Contaminated Mud Disposal (Agreement CE 105/98)* recommended a Contained Aquatic Disposal facility (CAD - capped seabed pit such as those already used at East of Sha

(1) ERM – Hong Kong, Ltd (2002) Environmental Monitoring and Audit for Contaminated Mud Pit IV at East of Sha Chau. Final Report. For the Civil Engineering Department, Hong Kong SAR Government..

Chau) at Airport East [1]. The results and recommendations of CE 105/98 were presented to the Advisory Council on the Environment (ACE) on 23 July 2001 (ACE Paper 4/2001). The study recommended that an EIA be carried out.

The results of the EIA indicated that a series of four seabed pits be constructed at East of Sha Chau to meet continuing contaminated sediment demands [2] (*Figure 1.1*). This recommendation and the EIA supporting it were endorsed by ACE on 11 July 2005 and the EIA was subsequently approved by the Director of Environmental Protection (DEP) without conditions on 1 September 2005 (AEIAR-089/2005).

An Environmental Permit (EP-312/2008) for the Disposal of Contaminated Sediment – Dredging, Management and Capping of Sediment Disposal Facility at Sha Chau (hereafter referred as "the Project") was issued by the Environmental Protection Department (EPD) to the CEDD, the Permit Holder, on 9 September 2008 and varied on 28 November 2008 (EP-312/2008/A).

Under the requirements of *Condition 3* of the EP (EP-312/2008), an EM&A programme as set out in the *Environmental Monitoring and Audit Manual (EM&A Manual)* is required to be implemented during construction and operational phases of the Project. In accordance with the *EM&A Manual*, baseline monitoring of water quality for dredging activities to form the new contaminated mud disposal facility (CMP V) is required for the Project.

1.2 PURPOSE OF THE REPORT

The purpose of this *Baseline Monitoring Report* is to present baseline marine water quality at the designated monitoring locations in the Project and reference areas prior to the commencement of marine dredging works. These levels will be used as the basis for compliance monitoring during dredging of four seabed pits for the new facility at Sha Chau. This report presents the monitoring requirements, methodologies and results of the baseline marine water quality measurements in accordance with the *EM&A Manual*.

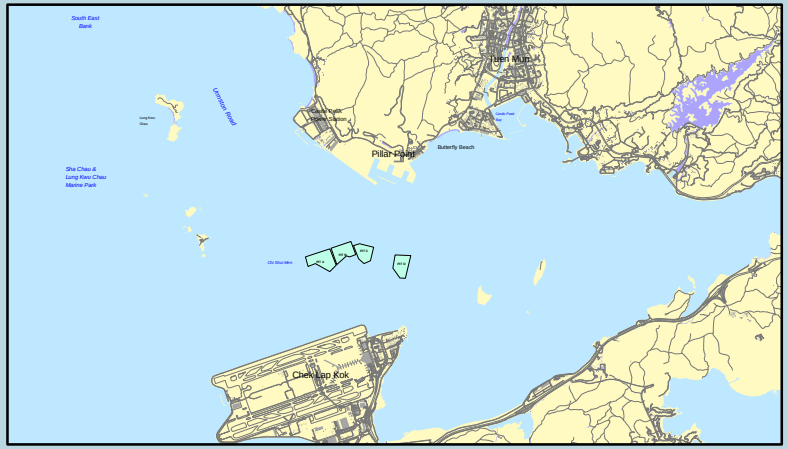
1.3 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : ***Introduction***
Details the background, purpose and structure of the report.

(1) ERM - Hong Kong, Ltd (1999) Strategic Assessment and Site Selection Study for Contaminated Mud Disposal. Final Report. For the Civil Engineering Department, Hong Kong SAR Government.

(2) ERM (2005) New Contaminated Mud Marine Disposal Facility at Airport East / East Sha Chau Area: EIA Report.(AEIAR-089/2005). Approved without conditions on 1 Sep 2005



KEY

CAD PIT

Pit A
(31.2 ha)

Pit B
(23.5 ha)

Pit C
(20.5 ha)

PitD
(23.3 ha)

N

Metres

0 250 500

Figure 1.1

Layout for a Multi-Pit Contained Aquatic Disposal (CAD) Facility in the East of Sha Chau Area

File: 0103262_layout.mxd
Date: 26/08/09

Environmental Resources Management

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Section 2 : ***Baseline Water Quality Monitoring for Dredging Activities***
Summarises the water quality monitoring parameters, monitoring programme, monitoring methodology, monitoring frequency and monitoring locations.

Section 3 : ***Baseline Water Quality Monitoring Results***
Presents the monitoring results and establishes the Action and Limit Levels in accordance with the *EM&A Manual*.

Section 4 : ***Conclusions***
Concludes the representativeness of the baseline monitoring results and observations for the Project.

2 BASELINE WATER QUALITY MONITORING FOR DREDGING ACTIVITIES

The following Section provides details of methodology used in the baseline monitoring of water quality prior to the commencement of marine dredging works for the Project.

2.1 MONITORING LOCATIONS

In accordance with the *EM&A Manual*, water quality sampling was undertaken at monitoring stations in the vicinity of the new facility at Sha Chau and in reference areas (EPD Water Quality Monitoring Stations NM1, 2, 3, 5 and 6) prior to the commencement of marine dredging works. Locations of the baseline monitoring stations are shown in *Figure 2.1*. Co-ordinates of these monitoring stations are listed in *Table 2.1*.

Table 2.1 Coordinates of Water Quality Monitoring Stations for Baseline Water Quality Monitoring for Dredging Activities

Monitoring Stations	Eastings	Northings
Far Field Stations		
ESC-WFA	805787	827951
ESC-WFB	806066	816537
MW1	823604	823654
Near Field Stations		
ESC-WNAA	811830	822706
ESC-WNAB	810833	822965
ESC-WNAC	810235	822756
ESC-WNAD	809557	822527
ESC-WNBA	812767	821889
ESC-WNBB	811651	822278
ESC-WNBC	811043	822178
ESC-WNBD	810514	821919
Mid Field Stations		
ESC-WMB	814033	821082
ESC-WMA	809577	823922
Reference Stations		
NM1	820256	823214
NM2	816015	823686
NM3	812527	824049
NM5	807707	827244
NM6	807584	820286

2.2 MONITORING PARAMETERS AND FREQUENCY

Baseline water quality monitoring was conducted in accordance with the requirements stated in the *EM&A Manual*, which are presented below.

2.2.1 Monitoring Parameters

Parameters measured *in situ* were:

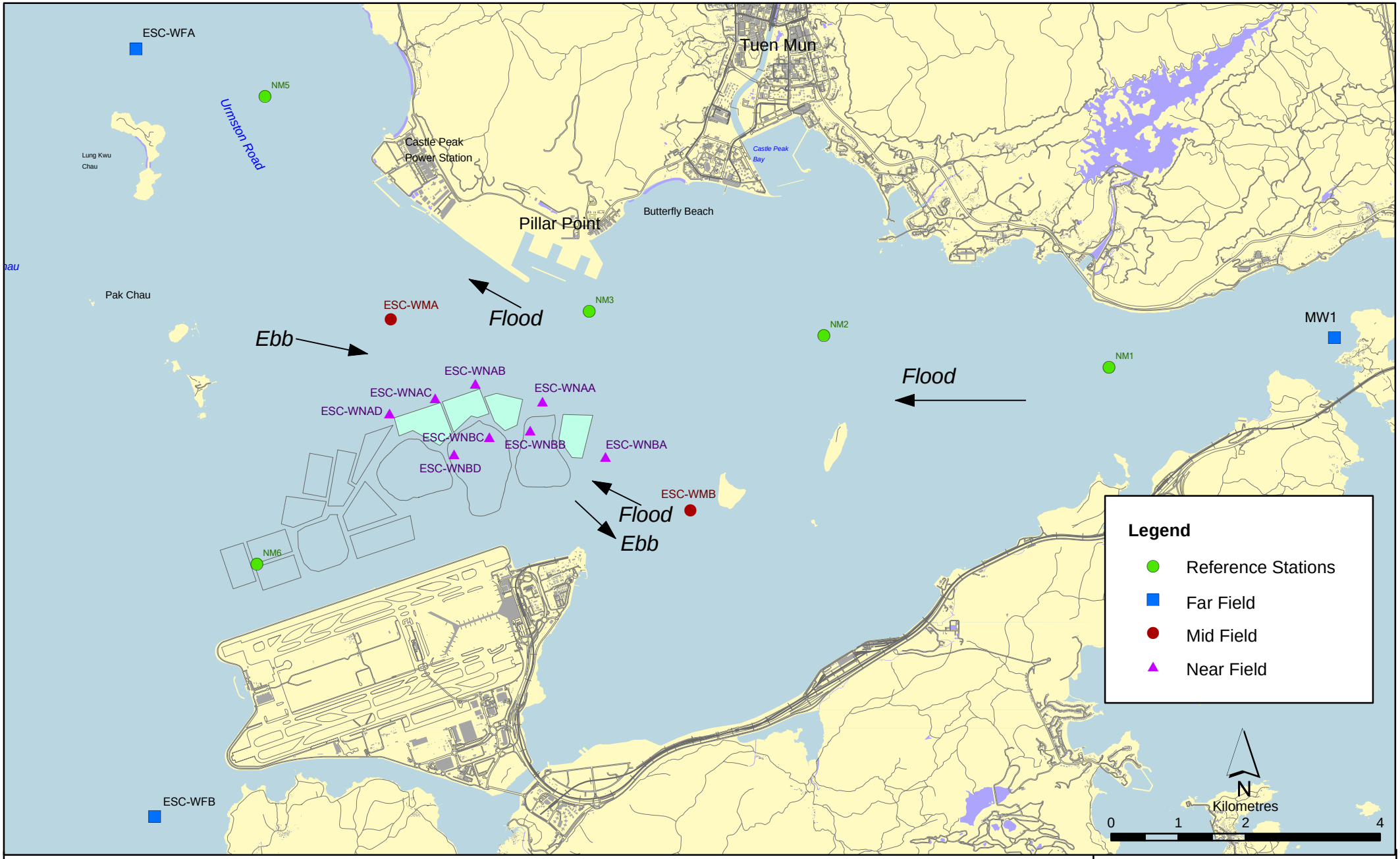

Figure 2.1

Baseline Water Quality Monitoring Stations for Dredging Activities

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Date: 14/07/2009

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- Dissolved Oxygen (mg L^{-1});
- Salinity (‰);
- pH;
- Turbidity (NTU);
- Temperature (°C); and
- Current Velocity and Direction (ms^{-1}).

Parameters measured in the laboratory were:

- Suspended Solids (SS) (mg L^{-1});
- Ammonia (mg L^{-1});
- Nutrients (TIN mg L^{-1});
- 5-Day Biochemical Oxygen Demand (BOD_5);
- Cadmium (mg L^{-1});
- Chromium (mg L^{-1});
- Copper (mg L^{-1});
- Lead (mg L^{-1});
- Mercury (mg L^{-1});
- Nickel (mg L^{-1});
- Silver (mg L^{-1});
- Zinc (mg L^{-1}); and
- Arsenic (mg L^{-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, tidal state, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

2.2.2 *Monitoring Frequency*

Baseline water quality monitoring was carried out for four weeks, with the frequency of three days per week. The interval between two sets of monitoring was not less than 36 hours. *In situ* measurements and water samples were taken during mid-flood and mid-ebb tidal state on each sampling occasion.

2.3 MONITORING EQUIPMENT AND METHODOLOGY

2.3.1 Monitoring Equipment

Positioning Device

A Global Positioning System (GPS) was used (C-Nav globally corrected DGPS, GPS 84 datum) during monitoring to ensure the accurate recording of the position of the monitoring vessel before taking measurements. The instrument calibration was checked by recording a measured position at a previously coordinated location on shore.

Electronic data logging device

A data logging device capable of storing *in situ* measurement data was used. The device was able to read and store the output from all electronic meters used for this project and recorded time and location as measured by the GPS.

In situ Measurement Equipment

The instrument was a portable, weatherproof multi-parameter measuring instrument (YSI 6820) complete with cables, multi-probe sensor, comprehensive operation manuals, and was operable from a DC power source. It was capable of measuring:

- turbidity levels between 0-1000 NTU (response of the sensor was checked with certified standard turbidity solutions before the start of measurement);
- pH of 0 to 14 units with a resolution of 0.01 unit;
- dissolved oxygen levels in the range of 0 – 50 mg L^{-1}; and 0-500% saturation;
- temperature of -5 to 45 °C; and,
- salinity in the range of 0-40 ppt (checked with 30 ppt Salinity solutions before the start of the measurement).

Water Depth Gauge

An echo sounder mounted to the hull of the survey vessel was used to measure water depth.

Current Velocity

Sea water current velocity was measured using a Workhorse Acoustic Doppler Current Profiler (ADCP) manufactured by Teledyne RD Instruments. This instrument measured current speed and direction in 1 m vertical increments below the survey vessel, from just below the sea surface to just above the seabed.

Water Sampling Equipment

Water samples for suspended solids measurement were collected by the use of a multi-bottle water sampling system (General Oceanics Inc., Rosette Sampler ROS02), consisting of PVC bottles of more than two litres, which could be effectively sealed with cups at both ends. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.

2.3.2 *Monitoring Methodology*

Timing & Frequency

Water quality sampling was undertaken within a 3 hour window of 1.5 hours before and 1.5 hours after mid-flood and mid-ebb tides. Tidal range for flood and ebb tides was not be less than 0.5 m for capturing representative tides.

Reference were made to the predicted tides at Lok On Pai, which is the tidal station nearest to the Project site, published on the website of Hong Kong Observatory [1]. Based on the predicted water levels at Lok On Pai, the baseline water quality monitoring was conducted between 28 July and 23 August 2009, following the schedule presented in *Annex A*. It should be noted that on 4 August 2009, monitoring was completed for the mid-flood but not for the mid-ebb tidal window as the survey was suspended due to adverse weather conditions caused by the severe tropical storm Goni which led to issue of Strong Wind Signal No. 3 by the Hong Kong Observatory in the morning of the survey.

Duplicate samples were collected from each of the monitoring events for *in situ* measurements and laboratory analysis.

Depths

Each station was sampled and measurements were taken at three depths, 1 m below the sea surface, mid depth and 1 m above the sea bed. For stations that were less than 3 m in depth, only the mid depth sample was taken.

[1] Hong Kong Observatory (2009) http://www.hko.gov.hk/tide/eWAGtide.htm

Protocols

The multi-parameter measuring instruments (YSI 6820) were checked and calibrated by an HOKLAS accredited laboratory before use (see calibration reports in *Annex B*). Onsite calibration was also carried out to check the responses of sensors and electrodes using certified standard solutions before each use. Sufficient stocks of spare parts were maintained for replacements when necessary, and backup monitoring equipment was made available.

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

Laboratory Analysis

All laboratory work was carried out by HOKLAS accredited laboratory. Water samples were collected at the monitoring and reference stations for carrying out the laboratory determinations. The determination work started within the next working day after collection of the water samples.

For SS analysis, the Quality Assurance / Quality Control (QA/QC) details were in accordance with requirements of HOKLAS or another internationally accredited scheme (details refer to *Annex C*).

3 BASELINE WATER QUALITY MONITORING RESULTS

3.1 INTRODUCTION

This Section presents the results of the baseline monitoring of water quality for dredging activities for the Project.

3.2 WATER QUALITY MONITORING RESULTS

Monitoring data and graphical presentations are summarised in *Annex D*. It should be noted that the laboratory analysis results for ammonia, nutrients (TIN), BOD_5, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc and arsenic will be provided once the data are available.

No major activities influencing the water quality were identified during the monitoring period.

The Action and Limit Levels for DO, turbidity and SS were set in the *EM&A Manual* and the proposed Action and Limit Levels were determined as shown in *Table 3.1*.

The Action and Limit Levels of DO, turbidity and suspended solids are derived from the baseline monitoring data for all stations, and the results are presented in *Table 3.2*.

Table 3.1 ***Determination of Action and Limit Level of Water Quality for Dredging Activities***

Parameter	Action Level	Limit Level
Dissolved Oxygen		
Surface and Middle Depth Averaged	The depth average of the impact station readings are <5%ile of baseline data and Significantly less than the reference stations mean DO (at the same tide of the same day)	The average of the impact station readings are <4mg/L and Significantly less than the reference stations mean DO (at the same tide of the same day)
Bottom	The average of the impact station readings are <5%ile of baseline data and Significantly less than the reference stations mean DO (at the same tide of the same day)	The average of the impact station readings are <2mg/L and Significantly less than the reference stations mean DO (at the same tide of the same day)
Suspended Solids		
Depth Averaged	The depth average of the impact station readings are >95%ile of baseline data and 120% or more of the reference stations SS (at the same tide of the same day)	The depth average of the impact station readings are >99%ile of baseline data and 130% or more of the reference stations SS (at the same tide of the same day)
Turbidity		
Depth Averaged	The depth average of the impact station readings are >95%ile of baseline data and 120% or more of the reference stations turbidity (at the same tide of the same day)	The depth average of the impact station readings are >99% of baseline data and 130% or more of the reference stations turbidity (at the same tide of the same day)

Table 3.2 Proposed Action and Limit Levels of Water Quality for Dredging Activities

Parameter	Action Level	Limit Level
Dissolved Oxygen (DO) (1)	Surface and Mid-depth (2) 5%-ile of baseline data for surface and middle layer = 3.76 mg L^{-1} and Significantly less than the reference stations mean DO (at the same tide of the same day)	Surface and Mid-depth (2) 1%-ile of baseline data for surface and middle layer = 3.11 mg L^{-1} (3) and Significantly less than the reference stations mean DO (at the same tide of the same day)
	Bottom 5%-ile of baseline data for bottom layers = 2.96 mg L^{-1} and Significantly less than the reference stations mean DO (at the same tide of the same day)	Bottom The average of the impact station readings are <2 mg/L and Significantly less than the reference stations mean DO (at the same tide of the same day)
Depth-averaged Suspended Solids (SS) (4) (5)	95%-ile of baseline data for depth average = 37.88 mg L^{-1} and 120% of control station's SS at the same tide of the same day	99%-ile of baseline data for depth average = 61.92 mg L^{-1} and 130% of control station's SS at the same tide of the same day
Depth-averaged Turbidity (Tby) (4) (5)	95%-ile of baseline data = 28.14 NTU and 120% of control station's Tby at the same tide of the same day	99%-ile of baseline data = 38.32 NTU and 130% of control station's Tby at the same tide of the same day

Notes:

(1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

(2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

(3) Given the Action Level for DO for Surface & Middle layers has already been lower than 4 mg L^{-1}, it is proposed to set the Limit Level at 3.11 mg L^{-1} which is the first percentile of the baseline data.

(4) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

(5) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

4 CONCLUSION

Baseline water quality monitoring was conducted between 28 July and 23 August 2009 at eighteen designated monitoring stations established for the Project. The monitoring was carried out 3 days per week, at mid-flood and mid-ebb tides, at three depths (surface, middle and bottom), for 4 weeks prior to the commencement of dredging works. No major activities were noted during baseline monitoring. Water quality monitoring results are, therefore, representative of the baseline conditions for the Project.

Results have been used to determine Action and Limit Levels for the dissolved oxygen, suspended solids and turbidity for impact monitoring to be conducted during dredging of four seabed pits for the new facility at Sha Chau.

Annex A

Baseline Monitoring Schedule

Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) - Investigation
Water Quality Baseline Monitoring Schedule - July 2009

Reference Tidal Station: Lok On Pai (source: HK Observatory Department)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	.
			01-Jul	02-Jul	03-Jul	04-Jul
05-Jul	06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul
12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul
26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	
		Mid-Flood 11:34 Mid-Ebb 17:30 *Baseline Monitoring*		Mid-Flood 15:06 Mid-Ebb 19:43 *Baseline Monitoring*		

Environmental Monitoring and Audit for Contaminated Mud Pit at Sha Chau (2009-2013) - Investigation
Water Quality Baseline Monitoring Schedule - August 2009

Reference Tidal Station: Lok On Pai (source: HK Observatory Department)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Aug
						Mid-Ebb 10:10 Mid-Flood 22:37 *Baseline Monitoring*
02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug
		Mid-Flood 05:00 Mid-Ebb 12:17 (cancelled due to Strong Wind Signal No. 3) *Baseline Monitoring*		Mid-Flood 06:28 Mid-Ebb 13:26 *Baseline Monitoring*		Mid-Flood 07:46 Mid-Ebb 14:25 *Baseline Monitoring*
09-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug
			Mid-Flood 10:41 Mid-Ebb 16:28 *Baseline Monitoring*		Mid-Flood 13:28 Mid-Ebb 18:21 *Baseline Monitoring*	
16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug
Mid-Ebb 09:10 Mid-Flood 21:48 Baseline Monitoring		Mid-Ebb 11:14 Mid-Flood 18:36 *Baseline Monitoring*			Mid-Flood 06:55 Mid-Ebb 13:41 *Baseline Monitoring*	
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
Mid-Flood 08:35 Mid-Ebb 15:00 Baseline Monitoring						
30-Aug	31-Aug					

Annex B

Calibration Reports of Multi-parameter Sensor

EARTH SCIENCES & SURVEYING

Form Name :	Procedure Type	Calibration
Temperature/Salinity Calibration Record	Form No/Rev	En10R / 2
	Date	19th September 2006
	Approved by	REH

CALIBRATION RECORD FOR TEMPERATURE/SALINTY SENSOR

Instrument model: **YSI** Calibration date **08 Jun 2009**

Serial Number **02J0058-AC** EGS Instrument No **MPP17** Calibration Engineer **Ricky Wong**

Cal Thermometers	0-15 ℃	15-30 ℃	30-45 ℃	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	916265	919402	991335	ORTASAL 69470	0	0	0	0

TEMPERATURE CALIBRATION

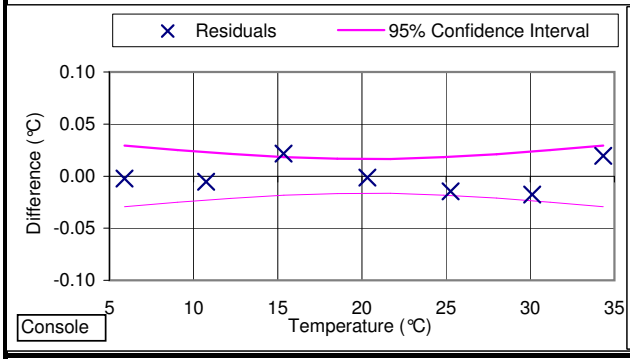
Console temperature calibration record (℃)

5.89	10.74	15.34	20.32	25.27	30.11	34.33	**Reference**
5.79	10.64	15.21	20.21	25.17	30.01	34.19	**Console**
5.892	10.745	15.318	20.321	25.285	30.128	34.310	**Calculated**
-0.002	-0.005	0.022	-0.001	-0.015	-0.018	0.020	**Residual**

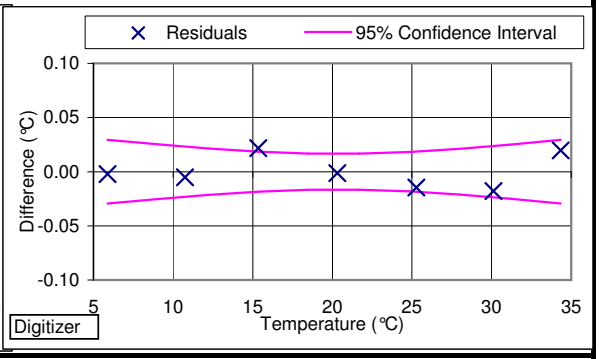
Digitizer temperature calibration record (℃)

5.79	10.64	15.21	20.21	25.17	30.01	34.19	**Digitizer**
5.892	10.745	15.318	20.321	25.285	30.128	34.310	**Calculated**
-0.002	-0.005	0.022	-0.001	-0.015	-0.018	0.020	**Residual**

CONSOLE TEMPERATURE CALIBRATION



DIGITIZER TEMPERATURE CALIBRATION



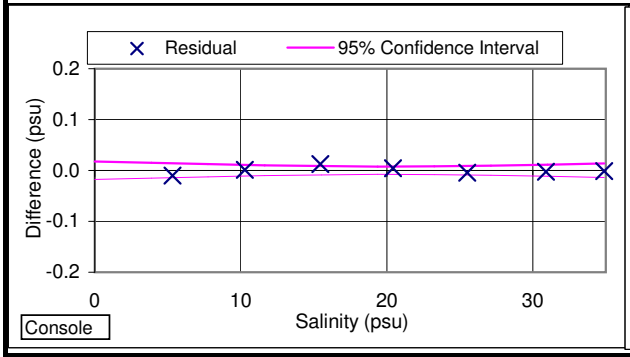
SALINITY CALIBRATION

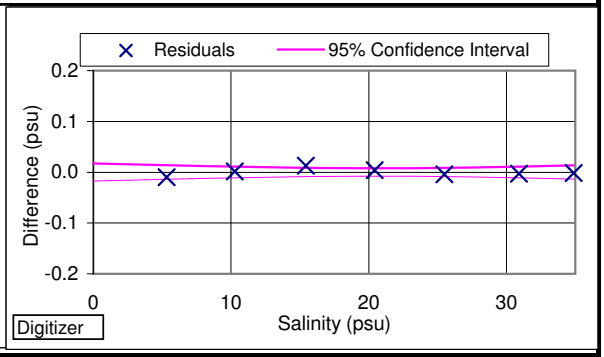
Console salinity calibration record (psu)

34.89	30.9	25.5	20.42	15.44	10.27	5.33	**Reference**
34.87	30.88	25.48	20.39	15.4	10.24	5.31	**Console**
34.892	30.903	25.504	20.416	15.427	10.269	5.340	**Calculated**
-0.002	-0.003	-0.004	0.004	0.013	0.001	-0.010	**Residual**

Digitizer salinity calibration record (psu)

34.87	30.88	25.48	20.39	15.4	10.24	5.31	**Digitizer**
34.892	30.903	25.504	20.416	15.427	10.269	5.340	**Calculated**
-0.002	-0.003	-0.004	0.004	0.013	0.001	-0.010	**Residual**





CALIBRATION SUMMARY

Value = m * {reading} + c

	Temperature console	digitizer	Salinity console	Salinity digitizer
Calibration gradient, m	**1.0006** ±0.0003	**1.0006** ±0.0003	**0.9997** ±0.0001	**0.9997** ±0.0001
Calibration intercept, c	**0.10** ±0.00	**0.10** ±0.00	**0.03** ±0.00	**0.03** ±0.00
95% Confidence interval	0.029 ℃	0.029 ℃	0.017 psu	0.017 psu
PASS/FAIL CRITERION	*0.1* **PASS**	*0.1* **PASS**	*0.2* **PASS**	*0.2* **PASS**

Calibration Engineer	Ricky Wong	Geoscientist	Margie Chen	Senior Engineer	Anderson Leung

EGS (ASIA) LIMITED

CALIBRATION RECORD FOR YSI SILTMETER

Job No :	L13909	Pre-cal.	X	Post-cal.	12Mth cal.
EGS No :	MPP17	Model :	YSI 6820-C-M	S/N :	02J0058-AC

SILTMETER CALIBRATION

Formazin Concentration (NTU)	Console Voltage (Volts)	Console Formazin Conc. (NTU)	Ratio=NTU/ Console Reading
100		99.90	Not Used
90		89.50	1.006
80		79.00	1.013
70		69.10	1.013
60		59.30	1.012
50		48.70	1.027
40		38.80	Not Used
30		28.70	Not Used
20		19.00	Not Used
10		9.30	Not Used
0		0.00	Not Used

Mean Ratio, M : 1.014
Standard Deviation of Ratio : 0.008

Acceptance Criteria :
i) 0.75 < Mean Ratio < 1.25
ii) Standard Deviation of Ratio < 0.05
iii) -2.5 NTU < Console Reading in Distilled Water < 2.5 NTU

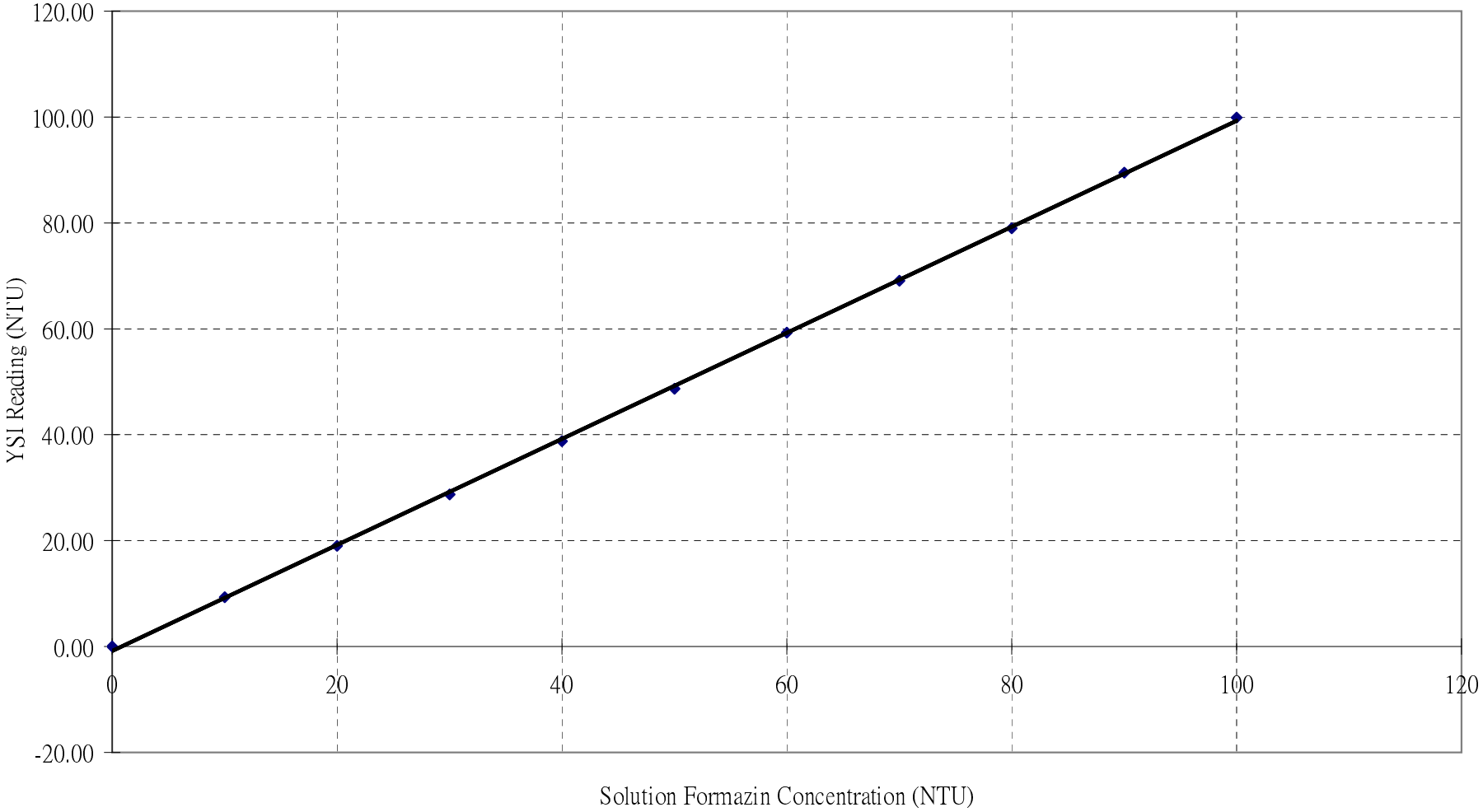
Calibration Equation : M x Console Reading + C

M = 1.014 C = 0.000

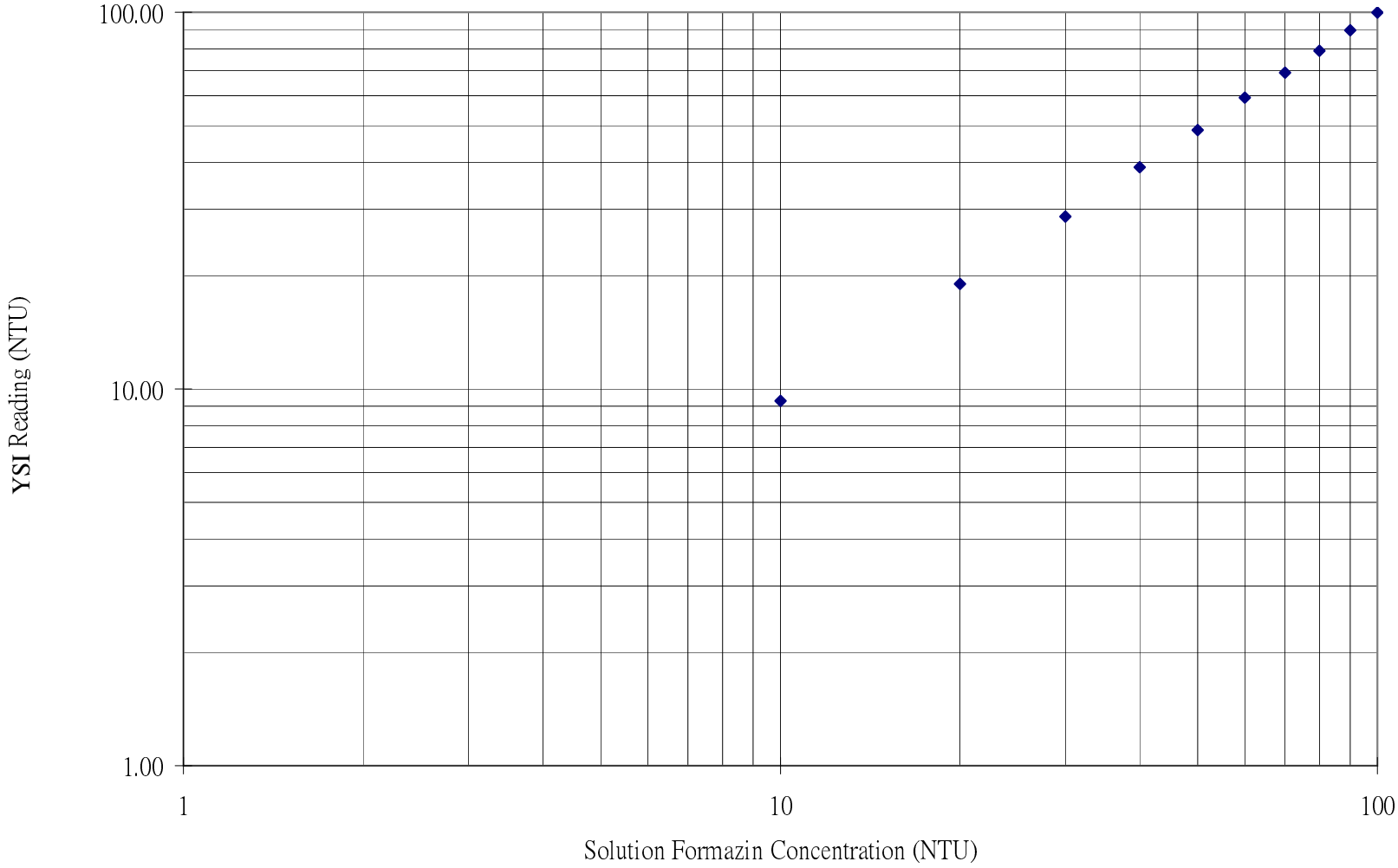
CALIBRATING ENGINEER :	Ricky Wong	Date :	8-Jun-09
PLOT ACCEPTED BY GEOSCIENTIST :	Margie Chen	Date :	10-Jun-09
ACCEPTED BY SENIOR ENGINEER :	Anderson Leung	Date :	10-Jun-09

CALIBRATION SCHEDULE UPDATED

Calibration Plot for YSI Siltmeter, EGS No:MPP17, 8-Jun-09



Calibration Plot for YSI Siltmeter, EGS No:MPP17, 8-Jun-09



YSI Siltmeter Regression Statistics

EGS No: **MPP17**
Date: **8-Jun-09**

Regression Statistics	
Multiple R	0.99983197
R Square	0.99966397
Adjusted R Square	0.99962663
Standard Error	0.62244224
Observations	11

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	10373.19309	10373.193	26774.067	6.04727E-17
Residual	9	3.486909091	0.3874343		
Total	10	10376.68			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*
Intercept	1.14545455	0.351104776	3.2624294	0.0098006	0.351199756	1.939709335
X Variable 1	0.97109091	0.005934754	163.62783	6.047E-17	0.957665553	0.984516265

EARTH SCIENCES & SURVEYING

Form Name : **Temperature/Salinity Calibration Record**

Procedure Type	**Calibration**
Form No/Rev	**En10R / 2**
Date	**19th September 2006**
Approved by	**REH**

CALIBRATION RECORD FOR TEMPERATURE/SALINTY SENSOR

Instrument model: **YSI** — Calibration date **08 Jun 2009**

Serial Number **02J0998** — EGS Instrument No **MPP19** — Calibration Engineer **Ricky Wong**

Cal Thermometers	0-15 ℃	15-30 ℃	30-45 ℃	Cal Salinometer	Ref A	Ref B	Cal A	Cal B
Thermoschneider	916265	909402	991335	ORTASAL 69470	0	0	0	0

TEMPERATURE CALIBRATION

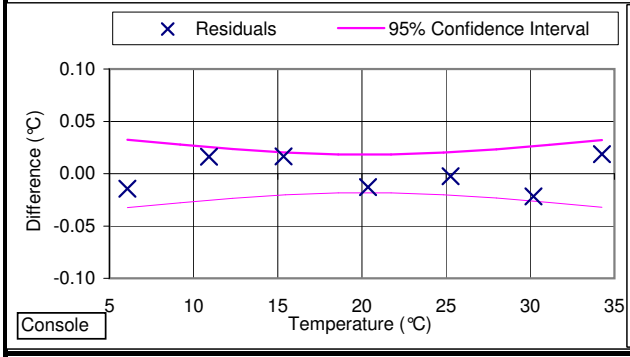
Console temperature calibration record (℃)

6.06	10.91	15.35	20.37	25.27	30.19	34.25	**Reference**
5.97	10.79	15.23	20.28	25.17	30.11	34.13	**Console**
6.074	10.894	15.333	20.383	25.272	30.212	34.231	**Calculated**
-0.014	0.016	0.017	-0.013	-0.002	-0.022	0.019	**Residual**

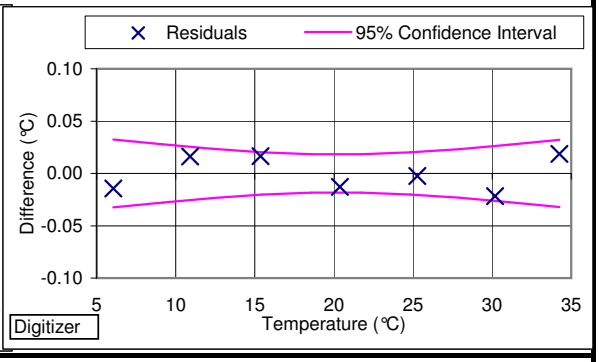
Digitizer temperature calibration record (℃)

5.97	10.79	15.23	20.28	25.17	30.11	34.13	**Digitizer**
6.074	10.894	15.333	20.383	25.272	30.212	34.231	**Calculated**
-0.014	0.016	0.017	-0.013	-0.002	-0.022	0.019	**Residual**

CONSOLE TEMPERATURE CALIBRATION



DIGITIZER TEMPERATURE CALIBRATION



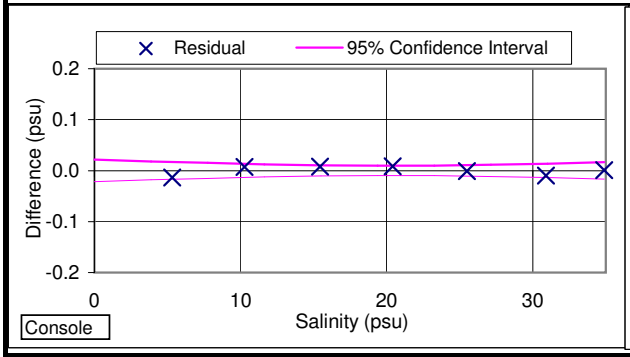
SALINITY CALIBRATION

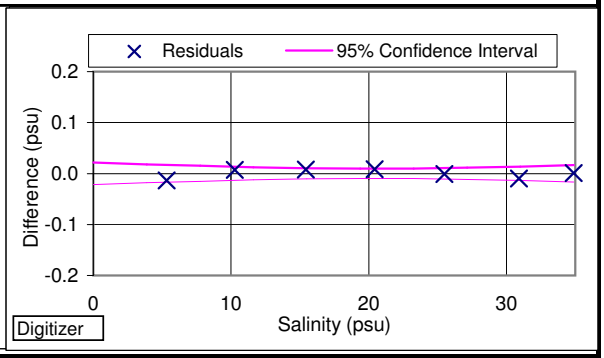
Console salinity calibration record (psu)

5.33	10.28	15.44	20.42	25.5	30.9	34.89	**Reference**
5.33	10.26	15.42	20.4	25.49	30.9	34.88	**Console**
5.344	10.273	15.432	20.411	25.501	30.910	34.889	**Calculated**
-0.014	0.007	0.008	0.009	-0.001	-0.010	0.001	**Residual**

Digitizer salinity calibration record (psu)

5.33	10.26	15.42	20.4	25.49	30.9	34.88	**Digitizer**
5.344	10.273	15.432	20.411	25.501	30.910	34.889	**Calculated**
-0.014	0.007	0.008	0.009	-0.001	-0.010	0.001	**Residual**





CALIBRATION SUMMARY

Value = m * {reading} + c

	Temperature console	digitizer	Salinity console	Salinity digitizer
Calibration gradient, m	**0.9999** ±0.0003	**0.9999** ±0.0003	**0.9998** ±0.0002	**0.9998** ±0.0002
Calibration intercept, c	**0.10** ±0.00	**0.10** ±0.00	**0.01** ±0.00	**0.01** ±0.00
95% Confidence interval	0.033 ℃	0.033 ℃	0.021 psu	0.021 psu
PASS/FAIL CRITERION	*0.1* **PASS**	*0.1* **PASS**	*0.2* **PASS**	*0.2* **PASS**

Calibration Engineer	Ricky Wong	Geoscientist	R E Hale	Senior Engineer	Anderson Leung

EGS (ASIA) LIMITED

CALIBRATION RECORD FOR YSI SILTMETER

Job No :	L13909	Pre-cal.	X	Post-cal.	12Mth cal.
EGS No :	MPP19	Model :	YSI 6820-C-M	S/N :	02J0998

SILTMETER CALIBRATION

Formazin Concentration (NTU)	Console Voltage (Volts)	Console Formazin Conc. (NTU)	Ratio=NTU/ Console Reading
100		100.00	Not Used
90		89.00	1.011
80		79.20	1.010
70		69.20	1.012
60		59.10	1.015
50		49.00	1.020
40		39.00	Not Used
30		28.60	Not Used
20		18.90	Not Used
10		9.50	Not Used
0		0.10	Not Used

Mean Ratio, M : 1.014
Standard Deviation of Ratio : 0.004

Acceptance Criteria :
i) 0.75 < Mean Ratio < 1.25
ii) Standard Deviation of Ratio < 0.05
iii) -2.5 NTU < Console Reading in Distilled Water < 2.5 NTU

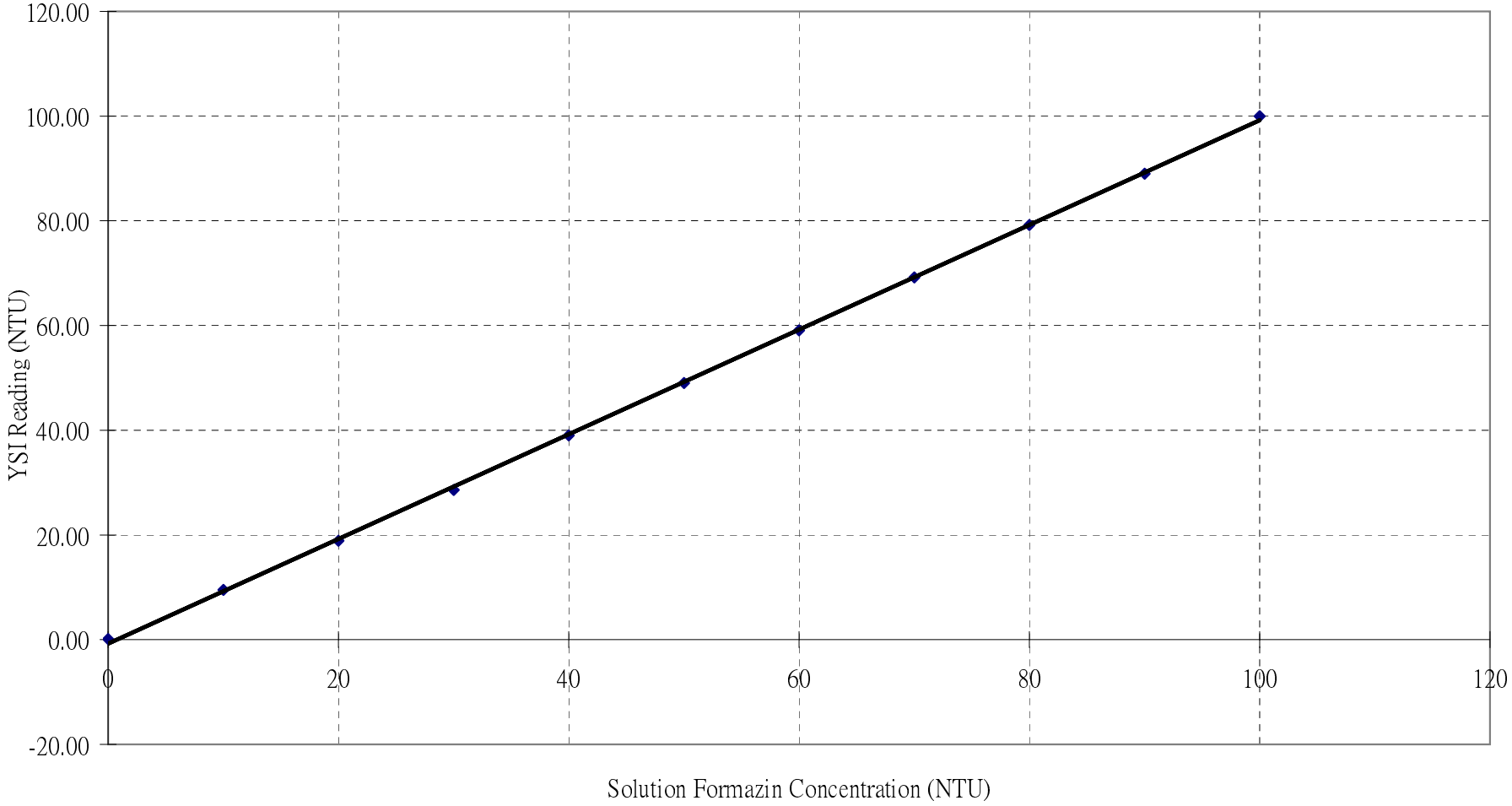
Calibration Equation : M x Console Reading + C

M = 1.014 C = -0.100

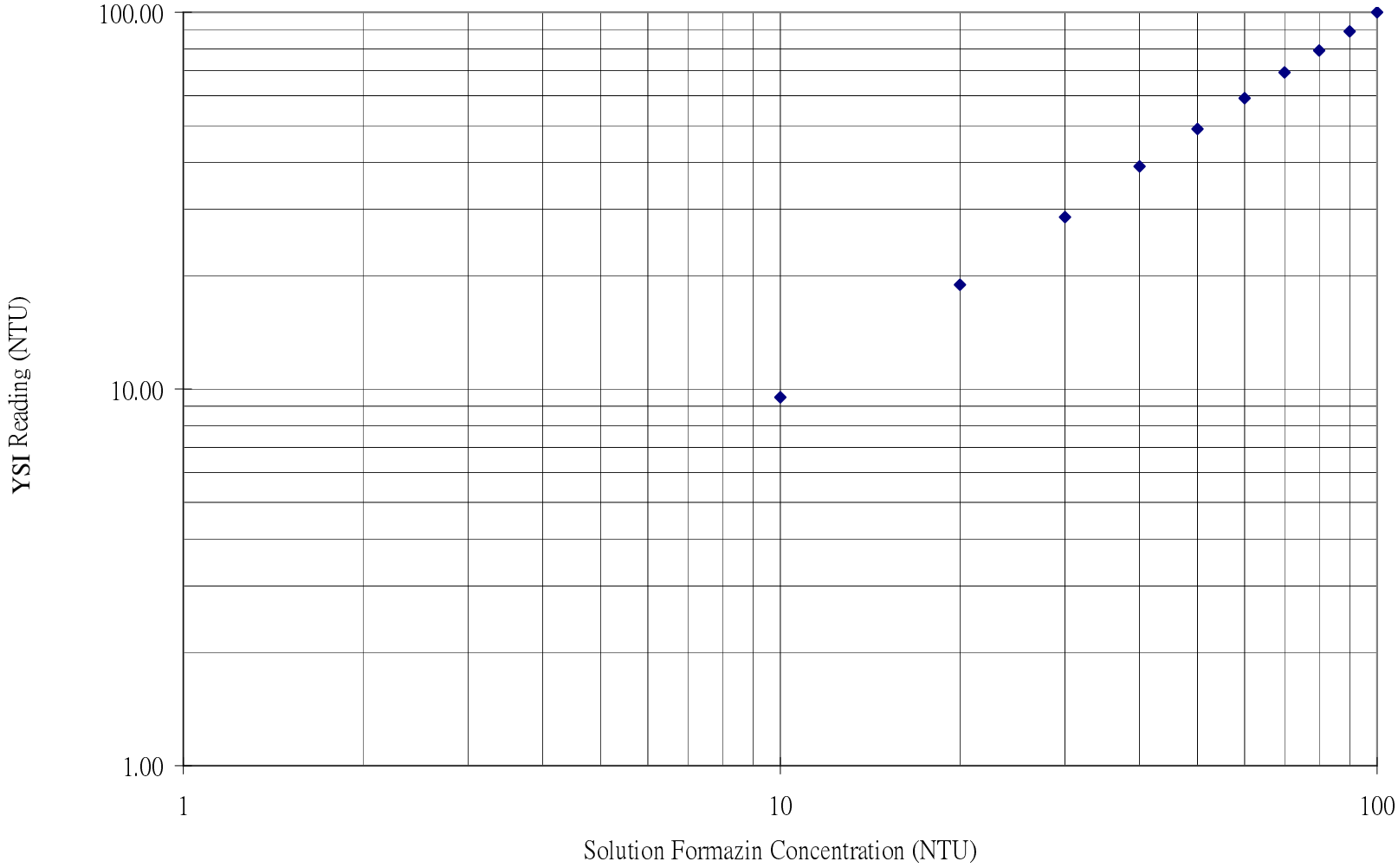
CALIBRATING ENGINEER :	Ricky Wong	Date :	9 June, 2009
PLOT ACCEPTED BY GEOSCIENTIST :	R E Hale	Date :	17 June, 2009
ACCEPTED BY SENIOR ENGINEER :	Anderson Leung	Date :	17 June, 2009

CALIBRATION SCHEDULE UPDATED

Calibration Plot for YSI Siltmeter, EGS No:MPP19, 9-Jun-09



Calibration Plot for YSI Siltmeter, EGS No:MPP19, 9-Jun-09



YSI Siltmeter Regression Statistics

EGS No: **MPP19**
Date: **9-Jun-09**

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.99983197
R Square	0.99966397
Adjusted R Square	0.99962663
Standard Error	0.62244224
Observations	11

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	1	10373.19309	10373.193	26774.067	6.04727E-17
Residual	9	3.486909091	0.3874343		
Total	10	10376.68			

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*
Intercept	1.14545455	0.351104776	3.2624294	0.0098006	0.351199756	1.939709335
X Variable 1	0.97109091	0.005934754	163.62783	6.047E-17	0.957665553	0.984516265

Annex C

QA/QC Results

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1059804)								
HK0915274-001	MW1/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	5	5	0.0
HK0915274-014	NM1/ ME /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	7	7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059805)								
HK0915274-030	ESC-WMB/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	7	0.0
HK0915274-046	ESC-WNAA/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	10	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059807)								
HK0915274-059	ESC-WNBB/ ME /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
HK0915274-075	ESC-WNBD/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059808)								
HK0915274-091	ESC-WNBC/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	9	9	0.0
HK0915274-104	ESC-WNBB/ MF /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059809)								
HK0915274-120	ESC-WNBA/ MF / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	8	0.0
HK0915274-136	NM2/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	20	19	5.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1059810)								
HK0915274-149	NM1/ MF /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	4	4	0.0
HK0915274-165	NM3/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	3	3	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059811)								
HK0915274-181	ESC-WNAC/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	4	5	0.0
HK0915274-194	ESC-WNAD/ ME /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	3	3	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059812)								
HK0915274-210	NM5/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
HK0915274-226	NM6/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	14	14	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059813)								
HK0915274-239	ESC-WFB/ ME /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	7	14.7
HK0915274-255	NM6/ MF / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	4	4	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059815)								
HK0915274-271	NM5/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	9	10	0.0
HK0915274-284	ESC-WMA/ MF /R2 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	7	7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1059816)								
HK0915274-300	ESC-WNAC/ MF / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	3	3	0.0
HK0915274-316	NM3/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	18	18	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062437)								
HK0915274-014	NM1/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-029	ESC-WMB/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062438)								
HK0915274-059	ESC-WNBB/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.06	0.06	0.0
HK0915274-060	ESC-WNBB/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062439)								
HK0915274-075	ESC-WNBD/ ME / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-040	ESC-WNBA/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062440)								
HK0915274-101	ESC-WNBB/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.13	0.13	0.0
HK0915274-120	ESC-WNBA/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062441)								
HK0915274-137	NM2/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
HK0915274-150	NM1/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062442)								
HK0915274-303	ESC-WNAC/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-166	NM3/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062443)								
HK0915274-182	ESC-WNAC/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-195	ESC-WNAD/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062444)								
HK0915274-211	NM5/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.06	0.06	0.0
HK0915274-227	NM6/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062445)								
HK0915274-240	ESC-WFB/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-253	NM6/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062446)								
HK0915274-267	ESC-WFA/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.01	0.01	0.0
HK0915274-280	ESC-WMA/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.05	0.05	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062447)								
HK0915274-309	ESC-WNAB/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915274-310	ESC-WNAB/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
EG: Metals and Major Cations (QC Lot: 1065072)								
HK0915274-002	MW1/ ME / R1 / M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	5	6	17.1
		EG020: Lead	7439-92-1	1	µg/L	1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	4	4	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	8	9	0.0
EG: Metals and Major Cations (QC Lot: 1065077)								
HK0915274-022	NM2/ ME / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	<1	<1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1065077) - Continued								
HK0915274-022	NM2/ ME / R2 / B	**EG020: Nickel**	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1065082)								
HK0915274-042	ESC-WNBA/ ME / R2 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	6	6	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	5	<4	0.0
EG: Metals and Major Cations (QC Lot: 1065083)								
HK0915274-062	ESC-WNBB/ ME /R3 /M	**EG020: Zinc**	7440-66-6	4	µg/L	9	9	0.0
EG: Metals and Major Cations (QC Lot: 1065093)								
HK0915274-082	ESC-WNBD/ MF / R1 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	1.0	1.0	0.0
		EG020: Copper	7440-50-8	1	µg/L	<1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	1	1	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	4	4	0.0
EG: Metals and Major Cations (QC Lot: 1065094)								
HK0915274-102	ESC-WNBB/ MF / R1 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	33	35	5.9
		EG020: Lead	7439-92-1	1	µg/L	2	2	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	3	0.0
		EG020: Zinc	7440-66-6	4	µg/L	14	15	9.2
EG: Metals and Major Cations (QC Lot: 1065098)								
HK0915274-122	ESC-WNBA/ MF /R2 /M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	4	5	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1065098) - Continued								
HK0915274-122	ESC-WNBA/ MF /R2 /M	**EG020: Arsenic**	7440-38-2	2	µg/L	<2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	4	5	0.0
EG: Metals and Major Cations (QC Lot: 1065099)								
HK0915274-142	NM2/ MF / R3 / B	**EG020: Zinc**	7440-66-6	4	µg/L	6	7	15.4
EG: Metals and Major Cations (QC Lot: 1065105)								
HK0915274-162	MW1/ MF / R3 / S	**EG020: Zinc**	7440-66-6	4	µg/L	10	12	18.2
EG: Metals and Major Cations (QC Lot: 1065106)								
HK0915274-182	ESC-WNAC/ ME / R1 / M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1065107)								
HK0915274-202	ESC-WMA/ ME / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	1	1	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	4	4	0.0
EG: Metals and Major Cations (QC Lot: 1065108)								
HK0915274-222	ESC-WFA/ ME / R2 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	4	4	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1065115)								
HK0915274-242	ESC-WFB/ ME /R3 /M	**EG020: Zinc**	7440-66-6	4	µg/L	7	7	0.0
EG: Metals and Major Cations (QC Lot: 1065116)								
HK0915274-262	ESC-WFA/ MF / R1 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	4	4	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1065116) - Continued								
HK0915274-262	ESC-WFA/ MF / R1 / B	**EG020: Nickel**	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	7	7	0.0
EG: Metals and Major Cations (QC Lot: 1065118)								
HK0915274-282	ESC-WMA/ MF / R1 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1065119)								
HK0915274-302	ESC-WNAC/ MF /R2 /M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	14	15	0.0
		EG020: Lead	7439-92-1	1	µg/L	3	3	0.0
		EG020: Nickel	7440-02-0	1	µg/L	4	4	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	12	14	10.7
EG: Metals and Major Cations (QC Lot: 1065126)								
HK0915274-322	NM3/ MF / R3 / B	**EG020: Zinc**	7440-66-6	4	µg/L	16	16	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1059804)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059805)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059807)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	105	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059808)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059809)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.0	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1059810)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059811)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059812)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059813)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059815)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1059816)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	103	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062437)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.6	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062438)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.5	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062439)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.9	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062440)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062441)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.6	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062442)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.6	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062443)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.7	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062444)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.9	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062445)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062446)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062447)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065072)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	96.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	91.6	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	92.0	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065072) - Continued											
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	94.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	87.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	85.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065077)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	88.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.6	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065082)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	88.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	95.6	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065083)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	100	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	85.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	95.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	94.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	105	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065093)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	98.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	88.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	95.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065093) - Continued											
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	94.6	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065094)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	113	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	88.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	86.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	87.8	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065098)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	105	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.1	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	104	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	94.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	97.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	88.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	104	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065099)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	104	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	97.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	86.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	90.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065105)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	104	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	99.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	97.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	89.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	100	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065106)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065106) - Continued											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	90.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	95.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	87.3	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065107)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	85.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	90.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	89.9	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	90.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065108)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	90.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	99.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	94.3	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	90.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065115)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	99.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	106	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	106	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	95.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.2	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065116)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	105	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	103	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	106	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065116) - Continued											
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	106	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	114	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	86.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065118)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	103	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	106	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	85.6	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065119)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	99.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	90.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.6	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1065126)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	105	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	110	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	90.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	93.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060734)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060735)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	85.8	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060736)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 1060736) - Continued											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060737)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	87.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060738)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	86.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060739)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060740)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	87.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060741)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060742)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060743)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060744)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060745)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060746)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	95.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060747)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	86.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060748)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.4	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 1060749)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060750)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.9	----	85	115	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062437)										
HK0915274-031	ESC-WMB/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	122	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062438)										
HK0915274-060	ESC-WNBB/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	94.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062439)										
HK0915274-075	ESC-WNBD/ ME / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	114	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062440)										
HK0915274-109	ESC-WNAA/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	118	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062441)										
HK0915274-122	ESC-WNBA/ MF /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	114	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062442)										
HK0915274-138	NM2/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	124	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062443)										
HK0915274-244	ESC-WFB/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	120	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062444)										
HK0915274-167	NM3/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	118	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062445)										
HK0915274-183	ESC-WNAC/ ME / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	104	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062446)										
HK0915274-254	NM6/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	104	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062447)										
HK0915274-281	ESC-WMA/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	118	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065072)										
HK0915274-001	MW1/ ME / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	78.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	87.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	76.7	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065072) - Continued										
HK0915274-001	MW1/ ME / R1 / B	**EG020: Lead**	7439-92-1	10 µg/L	77.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	97.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	87.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	89.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	87.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065077)										
HK0915274-021	NM2/ ME / R1 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	82.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	80.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	100	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	81.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	98.2	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	79.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	92.4	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	79.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065082)										
HK0915274-041	ESC-WNBA/ ME /R2 /M	**EG020: Arsenic**	7440-38-2	10 µg/L	83.8	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	80.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	92.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	89.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.4	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	77.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	94.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	81.1	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065083)										
HK0915274-061	ESC-WNBB/ ME / R3 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	80.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	80.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	105	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	80.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	98.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	98.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	93.8	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	115	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065093)										
HK0915274-081	ESC-WNBD/ ME / R3 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	80.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	80.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	99.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	80.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065093) - Continued										
HK0915274-081	ESC-WNBD/ ME / R3 / S	**EG020: Nickel**	7440-02-0	10 µg/L	98.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	87.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	100	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065094)										
HK0915274-101	ESC-WNBB/ MF / R1 / M	**EG020: Arsenic**	7440-38-2	10 µg/L	106	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	87.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	99.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	99.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	88.6	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	83.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	101	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065098)										
HK0915274-121	ESC-WNBA/ MF / R2 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	99.2	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	91.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	102	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	104	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	83.8	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	82.4	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	104	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065099)										
HK0915274-141	NM2/ MF / R2 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	96.5	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	99.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	89.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	110	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	89.8	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	87.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	111	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065105)										
HK0915274-161	MW1/ MF /R3 /M	**EG020: Arsenic**	7440-38-2	10 µg/L	80.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	106	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	102	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	106	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	94.4	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.8	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065105) - Continued										
HK0915274-161	MW1/ MF /R3 /M	**EG020: Zinc**	7440-66-6	10 µg/L	114	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065106)										
HK0915274-181	ESC-WNAC/ ME / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	84.5	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	99.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	108	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	110	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	100	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	81.4	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	100	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065107)										
HK0915274-201	ESC-WMA/ ME / R1 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	92.5	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	108	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	101	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	120	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	99.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	91.5	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	109	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065108)										
HK0915274-221	ESC-WFA/ ME /R2 /M	**EG020: Arsenic**	7440-38-2	10 µg/L	85.3	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	120	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	103	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	120	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	95.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	83.1	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	91.8	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	101	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065115)										
HK0915274-241	ESC-WFB/ ME / R3 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	100	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	103	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	83.4	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	99.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	98.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	90.5	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	109	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065116)										

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1065116) - Continued										
HK0915274-261	NM6/ MF / R3 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	90.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	106	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	85.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	100	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	113	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	86.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065118)										
HK0915274-281	ESC-WMA/ MF / R1 / M	**EG020: Arsenic**	7440-38-2	10 µg/L	102	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	111	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	94.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	116	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	90.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	98.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.7	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	124	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065119)										
HK0915274-301	ESC-WNAC/ MF / R2 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	103	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	105	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	103	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	110	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	85.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	95.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	92.7	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	110	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1065126)										
HK0915274-321	NM3/ MF / R2 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	93.4	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	111	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	100	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	113	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	100	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	89.7	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	120	----	75	125	----	----

Laboratory Duplicate (DUP) Report

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1058562)								
HK0915111-001	MW1/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	7	0.0
HK0915111-016	NM2/ ME / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058563)								
HK0915111-031	ESC-WNBA/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	7	7	0.0
HK0915111-046	ESC-WMB/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	4	4	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058564)								
HK0915111-061	ESC-WNBD/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	7	7	0.0
HK0915111-076	ESC-WNBC/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	3	4	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058565)								
HK0915111-091	ESC-WNBD/ MF / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	9	0.0
HK0915111-106	ESC-WNBB/ MF / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058566)								
HK0915111-121	ESC-WNBA/ MF / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	5	5	0.0
HK0915111-136	NM2/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	32	31	4.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1058567)								
HK0915111-151	MW1/ MF / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	5	5	0.0
HK0915111-166	ESC-WNAB/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058568)								
HK0915111-181	NM3/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	5	6	0.0
HK0915111-196	NM5/ ME / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	23	25	9.1
EA/ED: Physical and Aggregate Properties (QC Lot: 1058570)								
HK0915111-211	ESC-WMA/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
HK0915111-226	ESC-WFA/ ME/ R1 /M	**EA025: Suspended Solids (SS)**	----	2	mg/L	10	9	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058571)								
HK0915111-241	ESC-WFB/ ME / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	7	7	0.0
HK0915111-256	NM6/ MF / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	10	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058574)								
HK0915111-271	NM5/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	14	13	0.0
HK0915111-286	ESC-WNAD/ MF / R1 / M	**EA025: Suspended Solids (SS)**	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1058575)								
HK0915111-301	ESC-WNAB/ MF / R1 / B	**EA025: Suspended Solids (SS)**	----	2	mg/L	18	18	0.0
HK0915111-316	ESC-WNAC/ MF / R1 / S	**EA025: Suspended Solids (SS)**	----	2	mg/L	6	6	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058843)								
HK0915111-010	MW1/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
HK0915111-040	ESC-WNBA/ ME /R1 /M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.01	0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058844)								
HK0915111-020	MW1/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915111-050	ESC-WNBA/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058845)								
HK0915111-070	ESC-WNBD/ ME /R1 /M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
HK0915111-080	ESC-WNBD/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058846)								
HK0915111-100	ESC-WNBD/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915111-110	ESC-WNAA/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.05	0.05	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058847)								
HK0915111-230	NM6/ ME / R2 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915111-140	NM1/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058848)								
HK0915111-160	MW1/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
HK0915111-170	ESC-WNAC/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.05	0.05	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058849)								
HK0915111-190	ESC-WNAD/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
HK0915111-200	ESC-WNAD/ ME / R2 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058850)								
HK0915111-220	NM6/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915111-250	ESC-WFA/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.07	0.07	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058851)								
HK0915111-260	ESC-WFA/ MF/ R2 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
HK0915111-130	ESC-WNBA/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058852)								
HK0915111-280	NM5/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
HK0915111-290	NM5/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058853)								
HK0915111-310	ESC-WNAB/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
HK0915111-320	ESC-WNAB/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
EG: Metals and Major Cations (QC Lot: 1062449)								
HK0915111-002	MW1/ ME / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	<1	<1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	38	38	0.0
EG: Metals and Major Cations (QC Lot: 1062450)								
HK0915111-022	NM1/ ME / R1 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	32	30	6.4
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1062450) - Continued								
HK0915111-022	NM1/ ME / R1 / S	**EG020: Nickel**	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	36	36	0.0
EG: Metals and Major Cations (QC Lot: 1062451)								
HK0915111-042	ESC-WNBA/ ME/ R3 /M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	12	9	24.8
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	13	14	8.5
EG: Metals and Major Cations (QC Lot: 1062452)								
HK0915111-062	ESC-WNBD/ ME / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	<1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	30	33	9.5
EG: Metals and Major Cations (QC Lot: 1062455)								
HK0915111-082	ESC-WNBD/ MF / R1 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	23	19	19.0
EG: Metals and Major Cations (QC Lot: 1062456)								
HK0915111-102	ESC-WNBD/ MF / R3 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	22	26	16.7

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1062457)								
HK0915111-122	ESC-WNBA/ MF /R2 /M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	30	28	7.2
EG: Metals and Major Cations (QC Lot: 1062458)								
HK0915111-142	MW1/ MF / R1 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	<1	<1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	24	26	8.0
EG: Metals and Major Cations (QC Lot: 1062460)								
HK0915111-162	MW1/ MF / R3 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	18	18	0.0
EG: Metals and Major Cations (QC Lot: 1062461)								
HK0915111-182	NM3/ ME / R2 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	36	37	2.7
EG: Metals and Major Cations (QC Lot: 1062465)								
HK0915111-202	ESC-WMA/ ME/ R1 /M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	3	3	0.0

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1062465) - Continued								
HK0915111-202	ESC-WMA/ ME/ R1 /M	**EG020: Nickel**	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	42	42	0.0
EG: Metals and Major Cations (QC Lot: 1062466)								
HK0915111-222	NM6/ ME / R3 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	30	31	3.3
EG: Metals and Major Cations (QC Lot: 1062467)								
HK0915111-242	ESC-WFB/ ME / R2 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	29	27	7.1
EG: Metals and Major Cations (QC Lot: 1062468)								
HK0915111-262	ESC-WFB/ MF / R1 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	24	20	18.2
EG: Metals and Major Cations (QC Lot: 1062469)								
HK0915111-282	NM5/ MF / R3 / M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	8	9	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	4	4	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	48	48	0.0

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1062471)								
HK0915111-302	ESC-WNAB/ MF / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	33	29	12.9
EG: Metals and Major Cations (QC Lot: 1062473)								
HK0915111-322	NM3/ MF / R1 / S	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	4	4	0.0
		EG020: Lead	7439-92-1	1	µg/L	1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	20	18	10.5

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1058562)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058563)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058564)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	90.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058565)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	91.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058566)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058567)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058568)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058570)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058571)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1058571) - Continued											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058574)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1058575)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058843)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	94.2	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058844)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.6	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058845)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.4	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058846)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	93.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058847)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	95.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058848)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058849)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	102	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058850)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	106	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058851)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	102	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058852)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	102	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058853)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062449)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	87.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	99.9	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	99.8	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	105	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	98.8	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	95.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	99.7	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062450)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062450) - Continued											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	97.4	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	92.3	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	97.4	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	86.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	94.4	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	93.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	100	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062451)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	89.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	102	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	103	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	91.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	103	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	90.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	100	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062452)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	87.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	103	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	91.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	97.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	87.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	108	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062455)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	87.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	90.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	95.4	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	91.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.3	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	87.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062456)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	87.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062456) - Continued											
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	91.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	86.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	90.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062457)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	97.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	105	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	108	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	88.5	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	94.3	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062458)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	96.3	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	111	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	95.4	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	88.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	100	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062460)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	98.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	93.1	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	95.4	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	98.1	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	90.3	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.8	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	97.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062461)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	98.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	94.5	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	98.1	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	100	----	85	115	----	----

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062461) - Continued											
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	91.2	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062465)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	94.5	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	87.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	90.2	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	93.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	88.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062466)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	98.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	106	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	114	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	87.9	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	108	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	90.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	92.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062467)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	106	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	114	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	111	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	108	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	87.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	95.1	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062468)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	88.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	99.0	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	99.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	97.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	88.9	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062469)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062469) - Continued											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.6	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	94.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	93.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	99.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	89.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	100	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062471)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	114	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	88.9	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	114	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	87.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	109	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	89.7	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	110	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1062473)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	114	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	111	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	104	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	85.0	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	105	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	88.9	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	90.0	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060717)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	102	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060718)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	95.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060719)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	86.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060720)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060721)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 1060721) - Continued											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	94.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060722)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060723)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060724)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	86.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060725)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060726)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	91.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060727)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060728)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060729)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	100	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060730)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	87.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060731)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	91.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060732)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	96.5	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1060733)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	92.4	----	85	115	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058843)										
HK0915111-001	MW1/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	88.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058844)										
HK0915111-011	MW1/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	102	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058845)										
HK0915111-031	ESC-WNBA/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	92.4	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058846)										
HK0915111-041	ESC-WNBA/ ME / R2 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	86.7	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058847)										
HK0915111-091	ESC-WNBD/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	78.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058848)										
HK0915111-131	ESC-WNBA/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	88.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058849)										
HK0915111-151	MW1/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	86.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058850)										
HK0915111-181	NM3/ ME / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	98.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058851)										
HK0915111-191	ESC-WNAD/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	108	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058852)										
HK0915111-251	ESC-WFA/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	108	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1058853)										
HK0915111-281	NM5/ MF /R2 / M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	92.9	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062449)										
HK0915111-001	MW1/ ME / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	80.4	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	98.7	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	100	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	87.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	99.4	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	91.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	99.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062450)										
HK0915111-021	MW1/ ME / R3 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	81.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	96.2	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	118	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	90.7	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062450) - Continued										
HK0915111-021	MW1/ ME / R3 / S	**EG020: Mercury**	7439-97-6	2 µg/L	88.3	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	118	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	94.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	92.4	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062451)										
HK0915111-041	ESC-WNBA/ ME / R2 / M	**EG020: Arsenic**	7440-38-2	10 µg/L	76.5	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	94.4	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	111	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	99.8	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	92.7	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	95.3	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	87.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	106	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062452)										
HK0915111-061	ESC-WNBD/ ME / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	88.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	88.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	96.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	101	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	91.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	84.4	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	90.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062455)										
HK0915111-081	ESC-WNBD/ ME / R3 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	81.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	82.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	90.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	101	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	92.4	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	88.5	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	88.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	80.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062456)										
HK0915111-101	ESC-WNBD/ MF / R2 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	75.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	85.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	81.1	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	88.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	86.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	86.6	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062456) - Continued										
HK0915111-101	ESC-WNBD/ MF / R2 / S	**EG020: Silver**	7440-22-4	100 µg/L	83.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	102	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062457)										
HK0915111-121	ESC-WNBA/ MF / R1 / M	**EG020: Arsenic**	7440-38-2	10 µg/L	77.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	94.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	85.1	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	103	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	86.6	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	79.8	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	89.5	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	106	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062458)										
HK0915111-141	NM1/ MF / R3 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	100	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	88.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	102	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	102	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	88.4	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	83.9	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	110	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062460)										
HK0915111-161	MW1/ MF / R2 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	86.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	84.3	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	86.9	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	92.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	92.8	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	75.1	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	90.5	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	# Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062461)										
HK0915111-181	NM3/ ME / R1 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	79.8	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	98.0	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	82.7	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	98.8	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	85.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	79.8	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	90.7	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062461) - Continued										
HK0915111-181	NM3/ ME / R1 / S	**EG020: Zinc**	7440-66-6	10 µg/L	80.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062465)										
HK0915111-201	ESC-WNAD/ ME/ R3 /M	**EG020: Zinc**	7440-66-6	10 µg/L	90.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062466)										
HK0915111-221	NM6/ ME / R2 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	95.3	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	103	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	108	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	114	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	84.8	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	88.4	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	90.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	# Not Determined	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062467)										
HK0915111-241	ESC-WFB/ ME / R1 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	76.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	100	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	105	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	85.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	89.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	100	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062468)										
HK0915111-261	ESC-WFA/ MF / R3 / M	**EG020: Zinc**	7440-66-6	10 µg/L	110	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062469)										
HK0915111-281	NM5/ MF /R2 / M	**EG020: Arsenic**	7440-38-2	10 µg/L	98.5	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	84.1	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	84.2	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	111	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	86.2	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	98.9	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	87.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	110	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062471)										
HK0915111-301	ESC-WNAB/ MF / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	103	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	101	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	88.1	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	109	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1062471) - Continued										
HK0915111-301	ESC-WNAB/ MF / R1 / B	**EG020: Mercury**	7439-97-6	2 µg/L	86.7	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	83.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	91.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	80.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1062473)										
HK0915111-321	ESC-WNAB/ MF / R3 / S	**EG020: Zinc**	7440-66-6	10 µg/L	80.0	----	75	125	----	----

Laboratory Duplicate (DUP) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 1063267)								
HK0915410-001	MW1/ ME / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	7	7	0.0
HK0915410-014	NM1/ ME /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	5	5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063268)								
HK0915410-030	ESC-WMB/ ME / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	4	4	0.0
HK0915410-046	ESC-WNAA/ ME / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	11	10	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063269)								
HK0915410-059	ESC-WNBB/ ME /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	11	12	0.0
HK0915410-075	ESC-WNBD/ ME / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	4	5	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063270)								
HK0915410-091	ESC-WNBC/ MF / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	14	15	11.5
HK0915410-104	ESC-WNBB/ MF /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	14	14	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063271)								
HK0915410-120	ESC-WNBA/ MF / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	6	5	0.0
HK0915410-136	NM2/ MF / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	7	7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063272)								
HK0915410-149	NM1/ MF /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	4	4	0.0
HK0915410-165	NM3/ ME / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	2	2	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063273)								
HK0915410-181	ESC-WNAC/ ME / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	14	15	0.0
HK0915410-194	ESC-WNAD/ ME /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063274)								
HK0915410-210	NM5/ ME / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	5	6	0.0
HK0915410-226	NM6/ ME / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	3	2	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063275)								
HK0915410-239	ESC-WFB/ ME /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	5	4	0.0
HK0915410-255	NM6/ MF / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	7	7	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063276)								
HK0915410-271	NM5/ MF / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	0.0
HK0915410-284	ESC-WMA/ MF /R2 /M	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1063277)								
HK0915410-300	ESC-WNAC/ MF / R1 / S	EA025: Suspended Solids (SS)	----	2	mg/L	3	4	0.0
HK0915410-316	NM3/ MF / R1 / B	EA025: Suspended Solids (SS)	----	2	mg/L	14	12	10.4
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062386)								
HK0915410-013	NM1/ ME / R2 / B	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915410-029	ESC-WMB/ ME / R1 / M	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.04	0.04	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062387)								
HK0915410-042	ESC-WNBA/ ME / R2 / S	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915410-058	ESC-WNBB/ ME / R2 / B	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.09	0.09	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062388)								
HK0915410-074	ESC-WNBD/ ME / R1 / M	EK055A: Ammonia as N	7664-41-7	0.01	mg/L	0.01	0.01	0.0

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062388) - Continued								
HK0915410-103	ESC-WNBB/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.13	0.13	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062389)								
HK0915410-087	ESC-WNBD/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.04	0.04	0.0
HK0915410-119	ESC-WNBA/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062390)								
HK0915410-132	ESC-WMB/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915410-148	NM1/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062391)								
HK0915410-164	NM3/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
HK0915410-193	ESC-WNAD/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062392)								
HK0915410-209	NM5/ ME / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
HK0915410-222	ESC-WFA/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062393)								
HK0915410-177	ESC-WNAB/ ME / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
HK0915410-238	ESC-WFB/ ME / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062394)								
HK0915410-267	ESC-WFA/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
HK0915410-254	NM6/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062395)								
HK0915410-299	ESC-WNAC/ MF / R1 / M	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.01	0.01	0.0
HK0915410-283	ESC-WMA/ MF / R2 / B	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.03	0.03	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062396)								
HK0915410-328	ESC-WFA/ MF / R2 / S FIELD DUPLICATE	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	0.01	0.01	0.0
HK0915410-312	ESC-WNAB/ MF / R2 / S	**EK055A: Ammonia as N**	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0
EG: Metals and Major Cations (QC Lot: 1069753)								
HK0915410-002	MW1/ ME / R1 / M	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	9	11	20.0
		EG020: Lead	7439-92-1	1	µg/L	1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	12	12	0.0
EG: Metals and Major Cations (QC Lot: 1069754)								
HK0915410-022	NM2/ ME / R2 / B	**EG020: Mercury**	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	1	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*
EG: Metals and Major Cations (QC Lot: 1069754) - Continued								
HK0915410-022	NM2/ ME / R2 / B	EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	5	24.0
EG: Metals and Major Cations (QC Lot: 1069755)								
HK0915410-042	ESC-WNBA/ ME / R2 / S	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	7	6	0.0
		EG020: Lead	7439-92-1	1	µg/L	1	1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	3	0.0
		EG020: Zinc	7440-66-6	4	µg/L	5	5	0.0
EG: Metals and Major Cations (QC Lot: 1069756)								
HK0915410-062	ESC-WNBB/ ME /R3 /M	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Lead	7439-92-1	1	µg/L	1	1	0.0
		EG020: Zinc	7440-66-6	4	µg/L	8	8	0.0
EG: Metals and Major Cations (QC Lot: 1069757)								
HK0915410-082	ESC-WNBD/ MF / R1 / B	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	1	1	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	21	21	0.0
EG: Metals and Major Cations (QC Lot: 1069758)								
HK0915410-102	ESC-WNBB/ MF / R1 / S	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	6	6	0.0
		EG020: Lead	7439-92-1	1	µg/L	2	2	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	7	6	15.4
EG: Metals and Major Cations (QC Lot: 1069759)								
HK0915410-122	ESC-WNBA/ MF /R2 /M	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	6	7	0.0
EG: Metals and Major Cations (QC Lot: 1069760)								

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1069760) - Continued								
HK0915410-142	NM2/ MF / R3 / B	EG020: Zinc	7440-66-6	4	µg/L	<4	4	0.0
EG: Metals and Major Cations (QC Lot: 1069761)								
HK0915410-162	MW1/ MF / R3 / S	EG020: Zinc	7440-66-6	4	µg/L	10	10	0.0
EG: Metals and Major Cations (QC Lot: 1069762)								
HK0915410-182	ESC-WNAC/ ME / R1 / M	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	6	6	0.0
		EG020: Lead	7439-92-1	1	µg/L	1	2	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	6	7	0.0
EG: Metals and Major Cations (QC Lot: 1069763)								
HK0915410-202	ESC-WMA/ ME / R2 / B	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	1	1	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1069764)								
HK0915410-222	ESC-WFA/ ME / R2 / S	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1069765)								
HK0915410-242	ESC-WFB/ ME /R3 /M	EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1069766)								
HK0915410-262	ESC-WFA/ MF / R1 / B	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	5	4	0.0
		EG020: Lead	7439-92-1	1	µg/L	3	3	0.0
		EG020: Nickel	7440-02-0	1	µg/L	5	4	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	8	8	0.0
EG: Metals and Major Cations (QC Lot: 1069767)								
HK0915410-282	ESC-WMA/ MF / R1 / S	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations (QC Lot: 1069767) - Continued								
HK0915410-282	ESC-WMA/ MF / R1 / S	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	3	3	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	2	3	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1069768)								
HK0915410-302	ESC-WNAC/ MF /R2 /M	EG020: Mercury	7439-97-6	0.1	µg/L	<0.1	<0.1	0.0
		EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Silver	7440-22-4	1	µg/L	<1	<1	0.0
		EG020: Arsenic	7440-38-2	2	µg/L	<2	<2	0.0
		EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0
EG: Metals and Major Cations (QC Lot: 1069769)								
HK0915410-322	NM3/ MF / R3 / B	EG020: Zinc	7440-66-6	4	µg/L	<4	<4	0.0

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1063267)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	85.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063268)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	87.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063269)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063270)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063271)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063272)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063273)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	96.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063274)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063275)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.0	----	85	115	----	----

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 1063276)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 1063277)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062386)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062387)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	89.0	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062388)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062389)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062390)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.8	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062391)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	91.4	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062392)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	89.4	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062393)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.7	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062394)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.2	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062395)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.5	----	85	115	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062396)											
EK055A: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069753)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	100	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	111	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	105	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	98.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	109	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069754)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	100	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	111	----	85	115	----	----

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069754) - Continued											
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	102	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	95.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	109	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069755)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	100	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	111	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	100 µg/L	89.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	109	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069756)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	112	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	106	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	108	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	110	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	104	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069757)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	112	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	100	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	98.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	104	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069758)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	85.5	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	112	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	88.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	90.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	106	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069759)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069759) - Continued											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	100	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	105	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	88.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	112	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	100	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	112	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069760)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	105	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	104	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	107	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	89.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	109	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	98.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	112	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069761)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.7	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	92.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	89.5	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069762)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.7	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	88.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	87.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	89.4	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069763)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	102	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.7	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	105	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	89.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	93.2	----	85	115	----	----

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069763) - Continued											
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	89.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069764)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.6	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	98.2	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	96.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	92.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	92.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	94.1	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	101	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069765)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	95.0	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.7	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	89.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	88.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	88.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	102	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	94.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	101	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069766)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	91.1	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	89.7	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	92.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	86.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	89.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	92.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	92.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	98.0	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069767)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	105	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	90.8	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	94.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	92.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	98.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	107	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069768)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	105	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	94.6	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	94.0	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	95.0	----	85	115	----	----

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069768) - Continued											
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	90.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	98.0	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	94.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	112	----	85	115	----	----
EG: Metals and Major Cations (QC Lot: 1069769)											
EG020: Arsenic	7440-38-2	10	µg/L	<2	10 µg/L	100	----	85	115	----	----
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	10 µg/L	101	----	85	115	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	10 µg/L	98.0	----	85	115	----	----
EG020: Mercury	7439-97-6	0.5	µg/L	<0.1	2 µg/L	90.5	----	85	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	10 µg/L	101	----	85	115	----	----
EG020: Silver	7440-22-4	1	µg/L	<1	10 µg/L	91.0	----	85	115	----	----
EG020: Zinc	7440-66-6	10	µg/L	<4	10 µg/L	109	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063367)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	97.0	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063368)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	96.0	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063369)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	97.0	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063370)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	86.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063371)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	91.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063372)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	88.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063373)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	91.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063374)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	89.4	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063375)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	104	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063376)											

Matrix: WATER

Method: Compound	CAS Number	Method Blank (MB) Report LOR	Unit	Result	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report Spike Concentration	Spike Recovery (%) LCS	DCS	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
EP: Aggregate Organics (QC Lot: 1063376) - Continued											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	94.2	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063377)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	97.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063378)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.9	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063379)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	108	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063380)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	100	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063381)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	108	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063382)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	90.3	----	85	115	----	----
EP: Aggregate Organics (QC Lot: 1063383)											
EP030: Biochemical Oxygen Demand	----	2	mg/L	----	198 mg/L	107	----	85	115	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report Spike Concentration	Spike Recovery (%) MS	MSD	Recovery Limits (%) Low	High	RPD (%) Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062386)										
HK0915410-030	ESC-WMB/ ME / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	102	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062387)										
HK0915410-046	ESC-WNAA/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	106	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062388)										
HK0915410-059	ESC-WNBB/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	94.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062389)										
HK0915410-091	ESC-WNBC/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	120	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062390)										
HK0915410-120	ESC-WNBA/ MF / R1 / S	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	84.0	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062391)										
HK0915410-136	NM2/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	116	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062392)										
HK0915410-181	ESC-WNAC/ ME / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	78.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062393)										
HK0915410-194	ESC-WNAD/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	88.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062394)										
HK0915410-239	ESC-WFB/ ME /R2 /M	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	92.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062395)										
HK0915410-271	NM5/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	96.0	----	75	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 1062396)										
HK0915410-316	NM3/ MF / R1 / B	**EK055A: Ammonia as N**	7664-41-7	0.5 mg/L	120	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069753)										
HK0915410-001	MW1/ ME / R1 / B	**EG020: Arsenic**	7440-38-2	10 µg/L	86.3	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	102	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	111	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	109	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	110	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	83.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	103	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069754)										
HK0915410-021	NM2/ ME / R1 / S	**EG020: Arsenic**	7440-38-2	10 µg/L	99.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	106	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	109	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	110	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	103	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	83.0	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	84.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	84.5	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069755)										
HK0915410-041	ESC-WNBA/ ME /R2 /M	**EG020: Arsenic**	7440-38-2	10 µg/L	82.4	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	114	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	103	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	110	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	97.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	87.8	----	75	125	----	----
		EG020: Silver	7440-22-4	100 µg/L	85.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	104	----	75	125	----	----

Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069756)										
HK0915410-061	ESC-WNBB/ ME / R3 / B	EG020: Arsenic	7440-38-2	10 µg/L	105	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	88.4	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	97.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	99.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	95.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	114	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069757)										
HK0915410-081	ESC-WNBD/ ME / R3 / S	EG020: Arsenic	7440-38-2	10 µg/L	100	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	84.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	89.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	92.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069758)										
HK0915410-101	ESC-WNBB/ MF / R1 / M	EG020: Arsenic	7440-38-2	10 µg/L	92.7	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	113	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	98.7	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	108	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	86.2	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	85.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	106	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069759)										
HK0915410-121	ESC-WNBA/ MF / R2 / B	EG020: Arsenic	7440-38-2	10 µg/L	82.1	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	100	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	115	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	108	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	91.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	103	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	110	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	113	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069760)										
HK0915410-141	NM2/ MF / R2 / S	EG020: Arsenic	7440-38-2	10 µg/L	84.9	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	84.3	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	83.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	99.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	94.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	91.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	106	----	75	125	----	----

Matrix: **WATER**

				Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report							
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number		MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069760) - Continued										
HK0915410-141	NM2/ MF / R2 / S	EG020: Zinc	7440-66-6	10 µg/L	104	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069761)										
HK0915410-161	MW1/ MF /R3 /M	EG020: Arsenic	7440-38-2	10 µg/L	98.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	83.7	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	77.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	109	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	100	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	93.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	81.4	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	100	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069762)										
HK0915410-181	ESC-WNAC/ ME / R1 / B	EG020: Arsenic	7440-38-2	10 µg/L	84.4	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	93.2	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	115	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	88.4	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	92.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	93.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	91.2	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	108	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069763)										
HK0915410-201	ESC-WMA/ ME / R1 / S	EG020: Arsenic	7440-38-2	10 µg/L	88.8	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	91.4	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	111	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	95.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	93.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	96.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	88.1	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	104	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069764)										
HK0915410-221	ESC-WFA/ ME /R2 /M	EG020: Arsenic	7440-38-2	10 µg/L	90.3	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	83.8	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	116	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	83.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	93.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	100	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	90.6	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	101	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069765)										
HK0915410-241	ESC-WFB/ ME / R3 / B	EG020: Arsenic	7440-38-2	10 µg/L	110	----	75	125	----	----

Matrix: WATER

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations (QC Lot: 1069765) - Continued										
HK0915410-241	ESC-WFB/ ME / R3 / B	EG020: Cadmium	7440-43-9	10 µg/L	83.8	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	77.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	97.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	105	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	90.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	89.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	94.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069766)										
HK0915410-261	NM6/ MF / R3 / S	EG020: Zinc	7440-66-6	10 µg/L	88.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069767)										
HK0915410-281	ESC-WMA/ MF / R1 / M	EG020: Arsenic	7440-38-2	10 µg/L	100	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	84.3	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	85.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	97.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	90.0	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	79.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	88.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	86.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069768)										
HK0915410-301	ESC-WNAC/ MF / R2 / B	EG020: Arsenic	7440-38-2	10 µg/L	93.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	85.5	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	84.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	92.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	88.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	82.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	89.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	87.0	----	75	125	----	----
EG: Metals and Major Cations (QC Lot: 1069769)										
HK0915410-321	NM3/ MF / R2 / S	EG020: Arsenic	7440-38-2	10 µg/L	98.0	----	75	125	----	----
		EG020: Cadmium	7440-43-9	10 µg/L	97.8	----	75	125	----	----
		EG020: Copper	7440-50-8	10 µg/L	98.0	----	75	125	----	----
		EG020: Lead	7439-92-1	10 µg/L	96.0	----	75	125	----	----
		EG020: Mercury	7439-97-6	2 µg/L	88.5	----	75	125	----	----
		EG020: Nickel	7440-02-0	10 µg/L	89.0	----	75	125	----	----
		EG020: Silver	7440-22-4	10 µg/L	90.0	----	75	125	----	----
		EG020: Zinc	7440-66-6	10 µg/L	101	----	75	125	----	----

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BATCH QUALITY CONTROL - LABORATORY CONTROL SAMPLE

OUR REF. : ATHQ/45550EV/2009(1)
Batch : INW090826(1)
Matrix : Water

Date of Digestion : -
Date of Analysis : 22, 25-26 Aug 09

COMPOUND	Blank Conc.	Spike Conc.	QC SPIKE RESULTS				Control Limits		
			SCS Conc	DCS Conc	Ave Rec.	RPD	% Recovery		RPD
	µg/L	µg/L	µg/L	µg/L	%	%	Low	High	%
Total Chromium QC1	<LOR	5.0	5.1	5.2	103	2	80	120	20
Total Chromium QC2	<LOR	5.0	4.3	4.7	90	9	80	120	20
Total Chromium QC3	<LOR	5.0	4.7	4.8	95	2	80	120	20
Total Chromium QC4	<LOR	5.0	4.9	4.8	97	2	80	120	20
Total Chromium QC5	<LOR	5.0	4.4	4.4	88	0	80	120	20
Total Chromium QC6	<LOR	5.0	4.8	4.5	93	6	80	120	20
Total Chromium QC7	<LOR	5.0	4.7	5.0	97	6	80	120	20
Total Chromium QC8	<LOR	5.0	4.9	4.8	97	2	80	120	20
Total Chromium QC9	<LOR	5.0	4.4	4.3	87	2	80	120	20
Total Chromium QC10	<LOR	5.0	5.1	4.9	100	4	80	120	20
Total Chromium QC11	<LOR	5.0	4.9	5.0	99	2	80	120	20

COMMENTS :

1) LOR: level of reporting
2) The control limits are based on ALS laboratory statistical data.
3) * : Recovery or RPD falls outside of the recommended control limits.

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BATCH QUALITY CONTROL - MATRIX SPIKE SAMPLE

OUR REF. : ATHQ/45550EV/2009(1)
Batch : INW090826(1)
Matrix : Water

Date of Digestion : -
Date of Analysis : 22, 25-26 Aug 09
Spiked Sample : Refer table

COMPOUND	Sample Results	Spike Conc.	QC SPIKE RESULTS				Control Limits
			MS Conc	MSD Conc	Ave Rec.	RPD	RPD
	µg/L	µg/L	µg/L	µg/L	%	%	%
Total Chromium - 46073	<LOR	10	11	11	110	0	20
Total Chromium - 45550	<LOR	10	11	10	105	10	20
Total Chromium - 45580	<LOR	10	10	10	100	0	20
Total Chromium - 45600	<LOR	10	10	9	95	11	20
Total Chromium - 45630	<LOR	10	9	8	85	12	20
Total Chromium - 45650	<LOR	10	10	11	105	10	20
Total Chromium - 45680	<LOR	10	9	10	95	11	20
Total Chromium - 45710	<LOR	10	10	10	100	0	20
Total Chromium - 45740	<LOR	10	11	10	105	10	20
Total Chromium - 45770	<LOR	10	9	9	90	0	20
Total Chromium - 45800	<LOR	10	11	12	115	9	20

COMMENTS :

1) LOR: level of reporting
2) The control limits are based on ALS laboratory statistical data.
3) * : Recovery or RPD falls outside of the recommended control limits.

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BATCH QUALITY CONTROL - DUPLICATE SAMPLE

OUR REF. : ATHQ/45550EV/2009(1)
Batch : INW090826(1)
Matrix : Water

Date of Digestion : -
Date of Analysis : 22, 25-26 Aug 09
Duplicate sample: Refer table

COMPOUND	QC DUPLICATE RESULTS		
	Sample Conc	Check Sample Conc	RPD
	µg/L	µg/L	%
Total Chromium - 46081	<LOR	<LOR	-
Total Chromium - 46090	<LOR	<LOR	-
Total Chromium - 45569	<LOR	<LOR	-
Total Chromium - 45599	<LOR	<LOR	-
Total Chromium - 45619	<LOR	<LOR	-
Total Chromium - 45656	<LOR	<LOR	-
Total Chromium - 45669	<LOR	<LOR	-
Total Chromium - 45674	2	2	0
Total Chromium - 45699	<LOR	<LOR	-
Total Chromium - 45730	<LOR	<LOR	-
Total Chromium - 45759	<LOR	<LOR	-

Annex D

Baseline Water Quality Monitoring Results

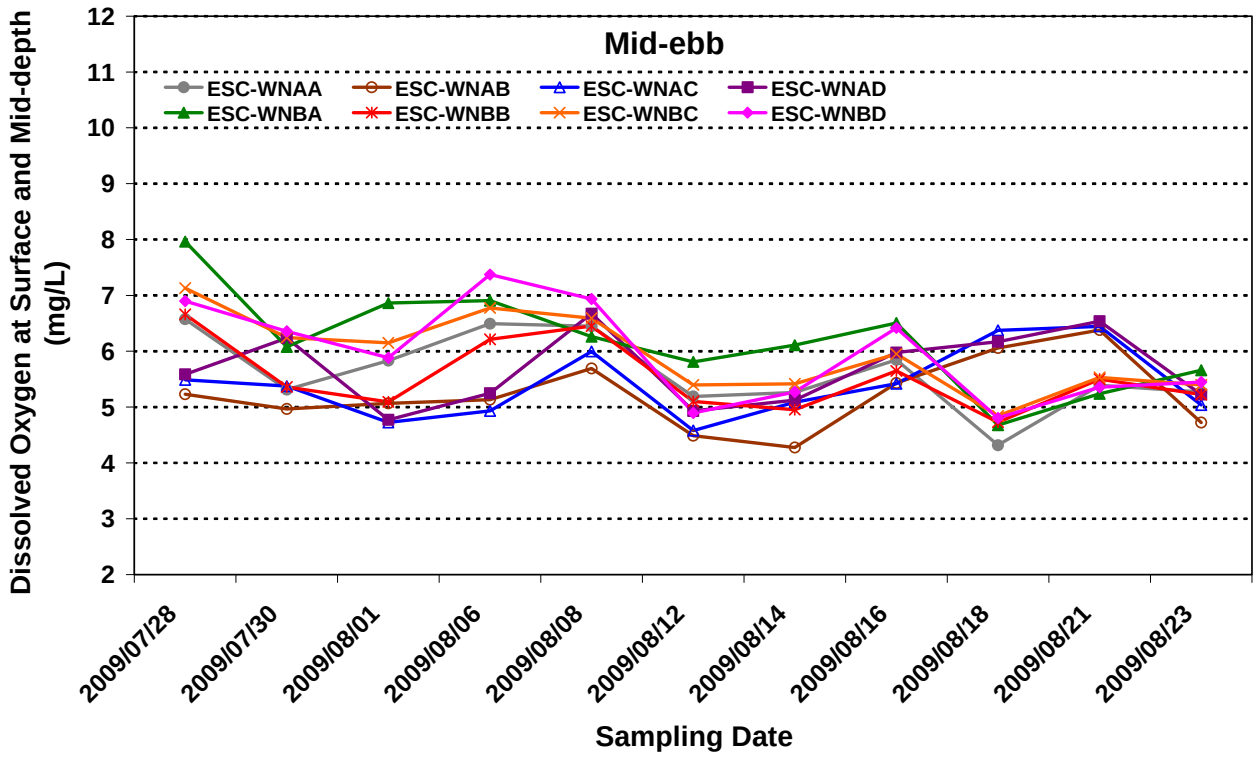

Figure D1 **Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Near Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

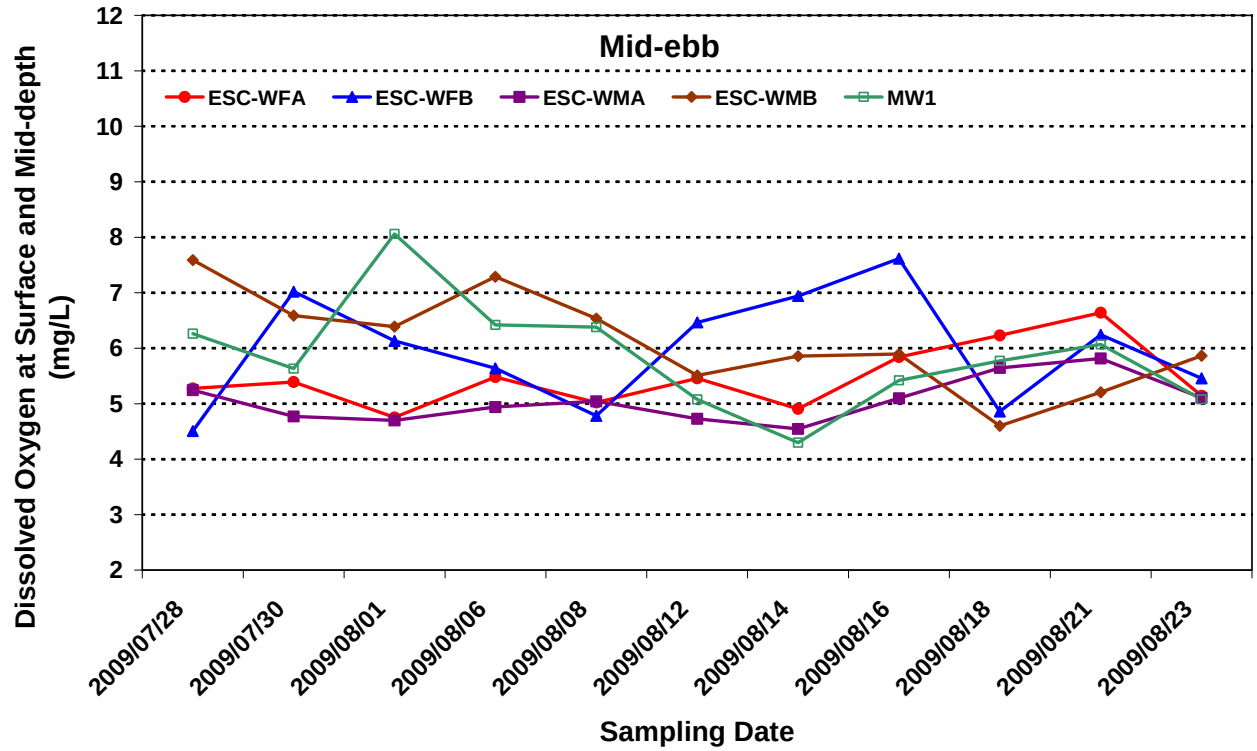

Figure D2 **Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Mid and Far Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

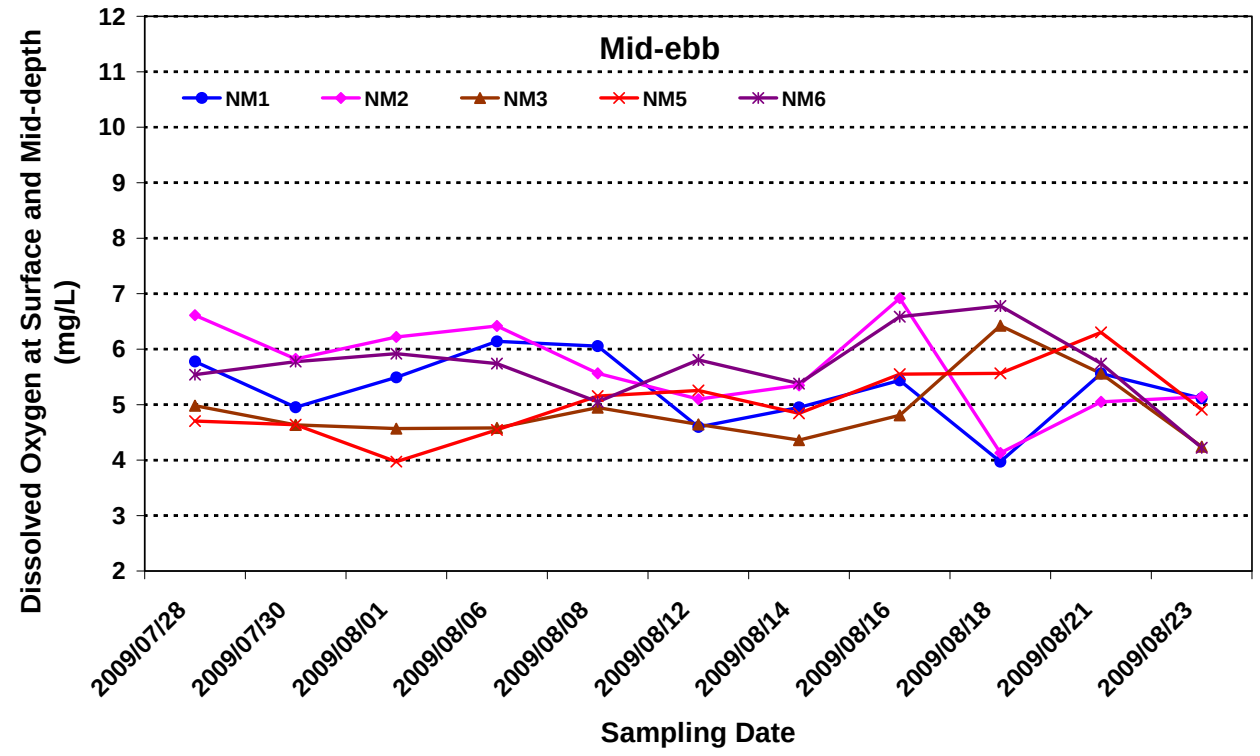

Figure D3 **Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Reference stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

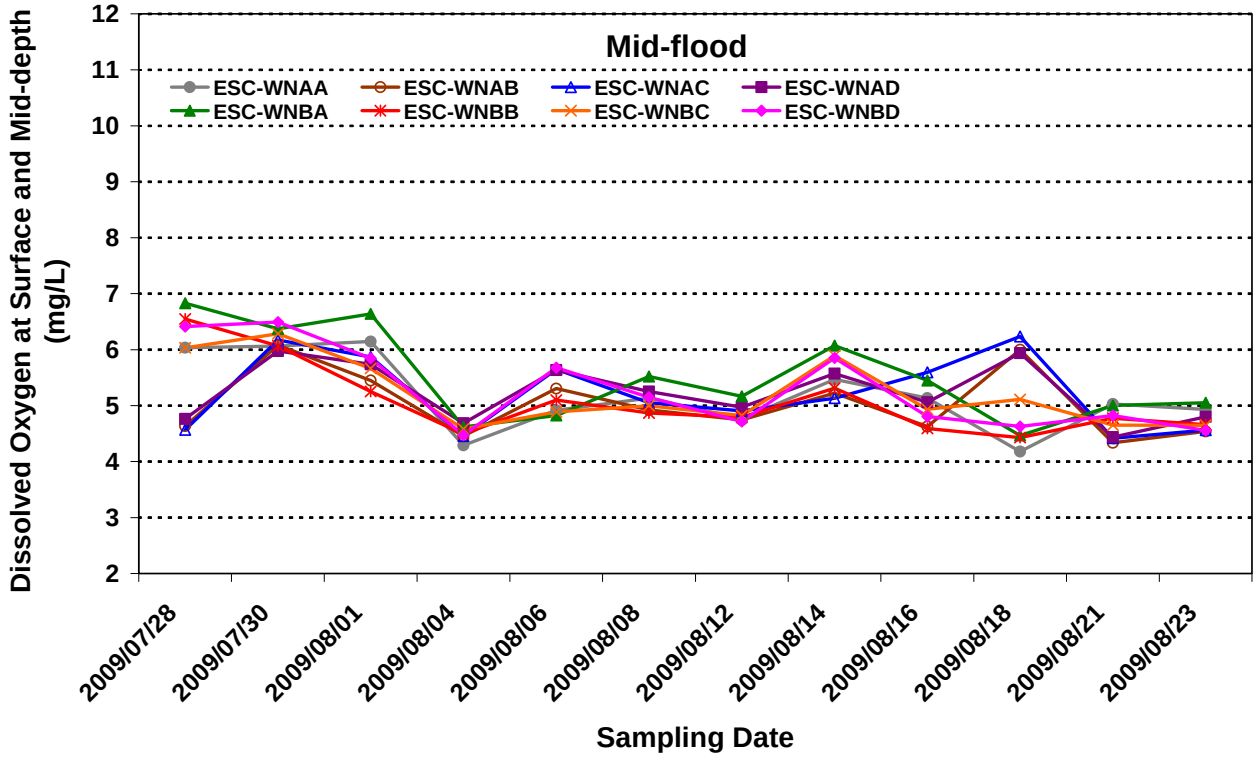

Figure D4 **Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Near Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

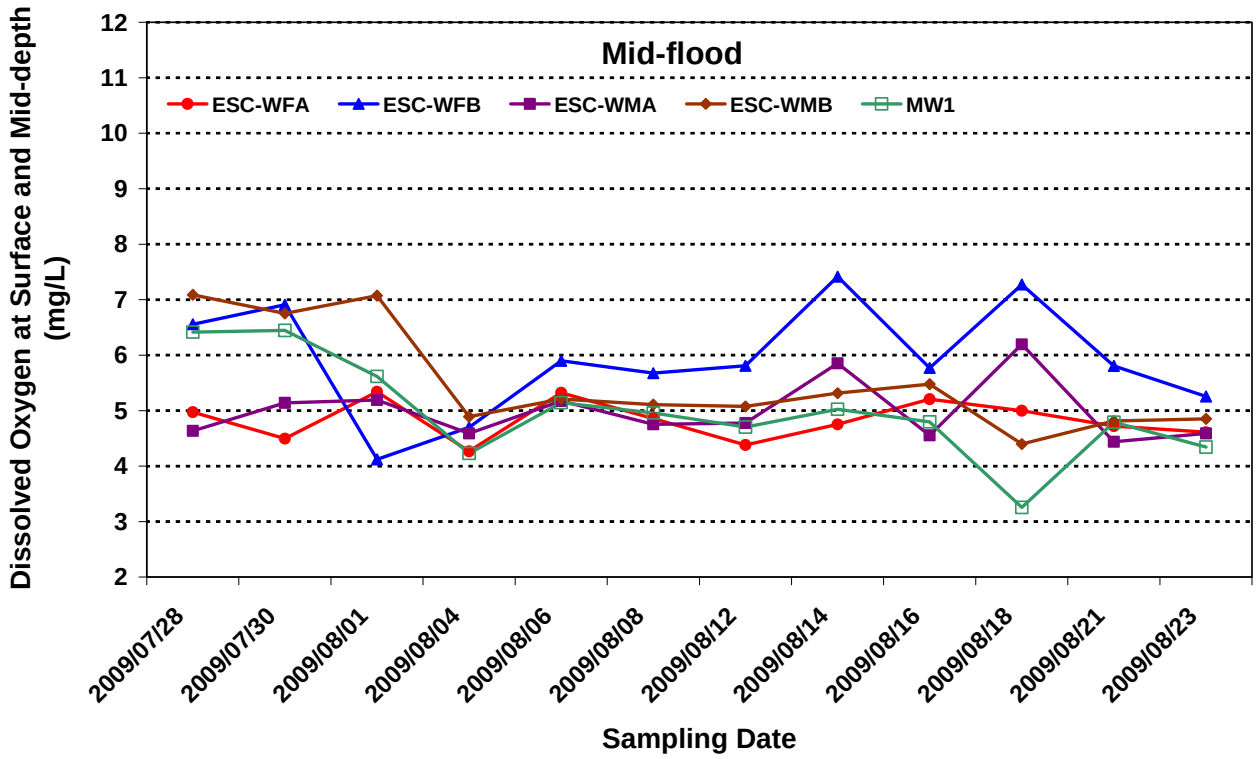

Figure D5 Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Mid and Far Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009

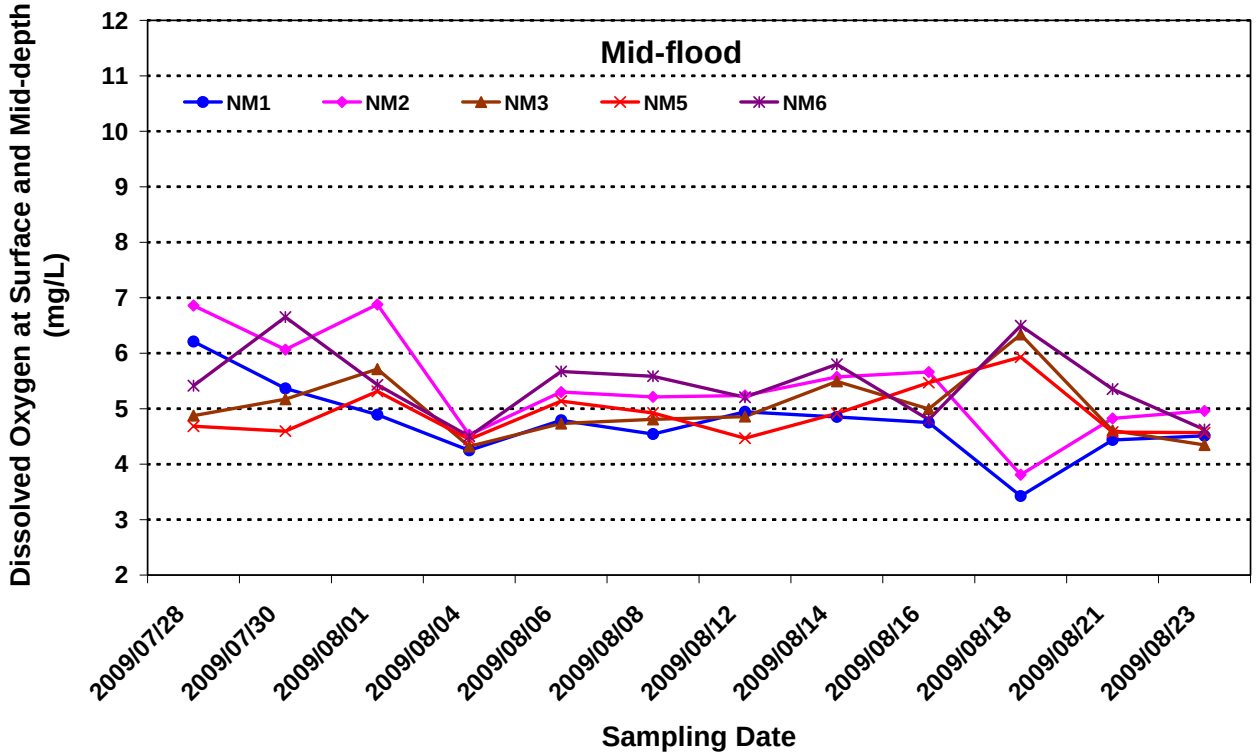

Figure D6 Dissolved Oxygen (mg/L) at the surface and mid-depth of the water column measured at Reference stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.

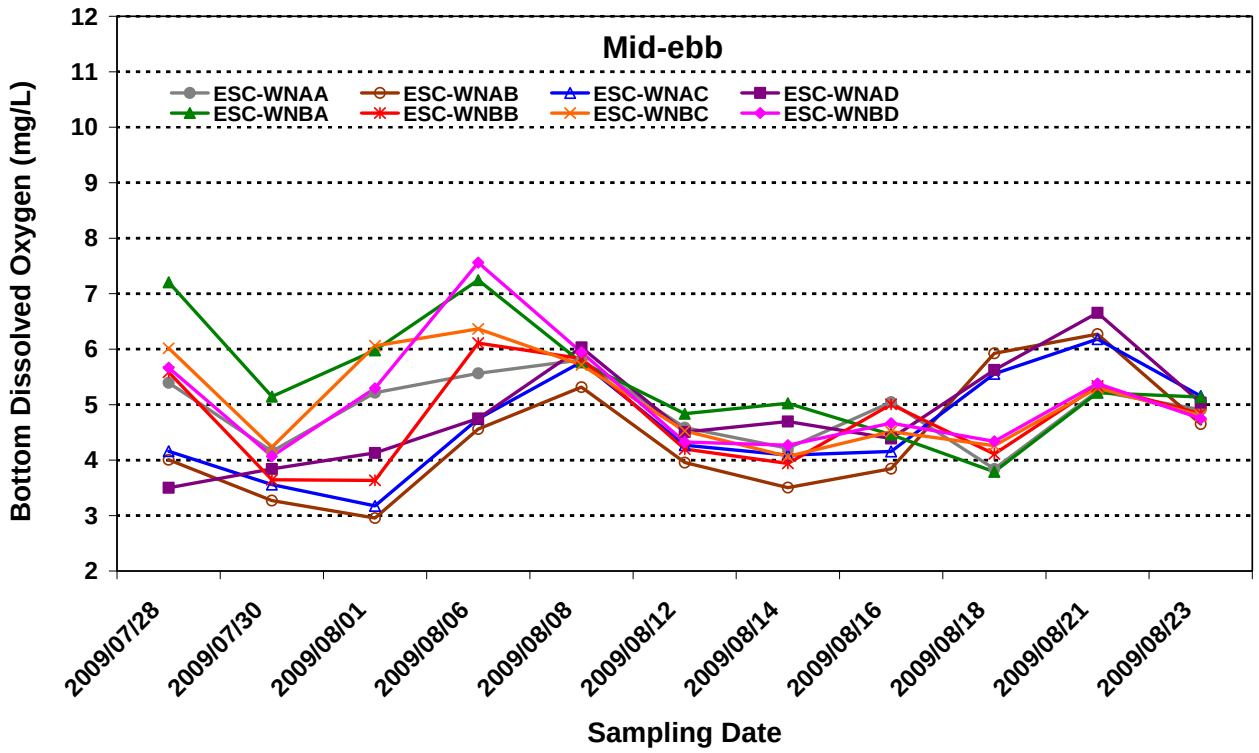

Figure D7 **Dissolved Oxygen (mg/L) near the bottom of the water column measured at Near Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

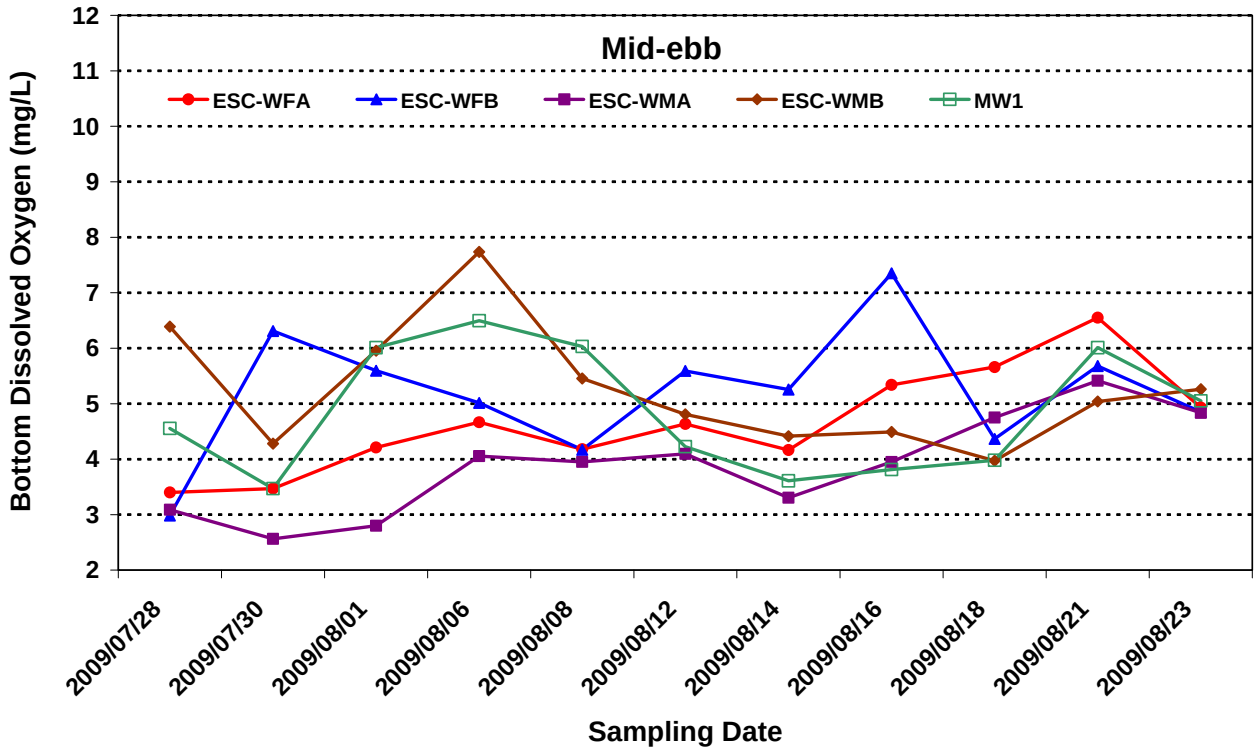

Figure D8 **Dissolved Oxygen (mg/L) near the bottom of the water column measured at Mid and Far Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

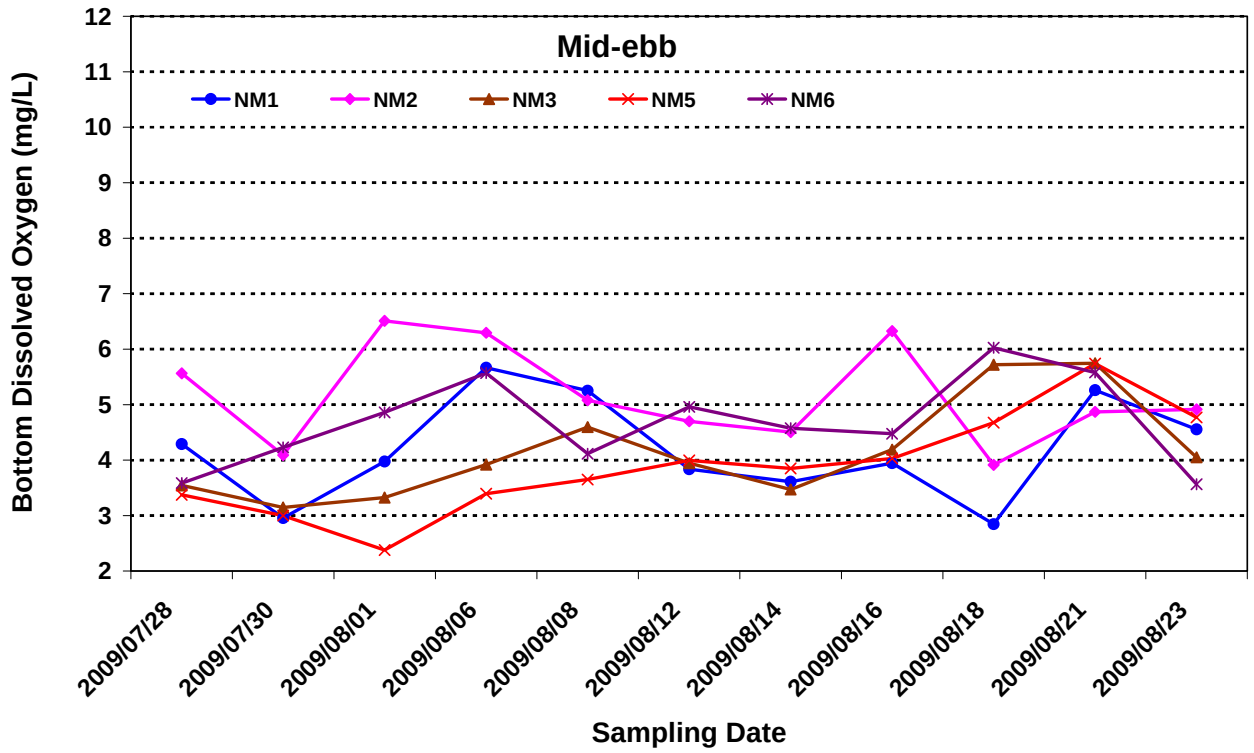

Figure D9 **Dissolved Oxygen (mg/L) near the bottom of the water column measured at Reference stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

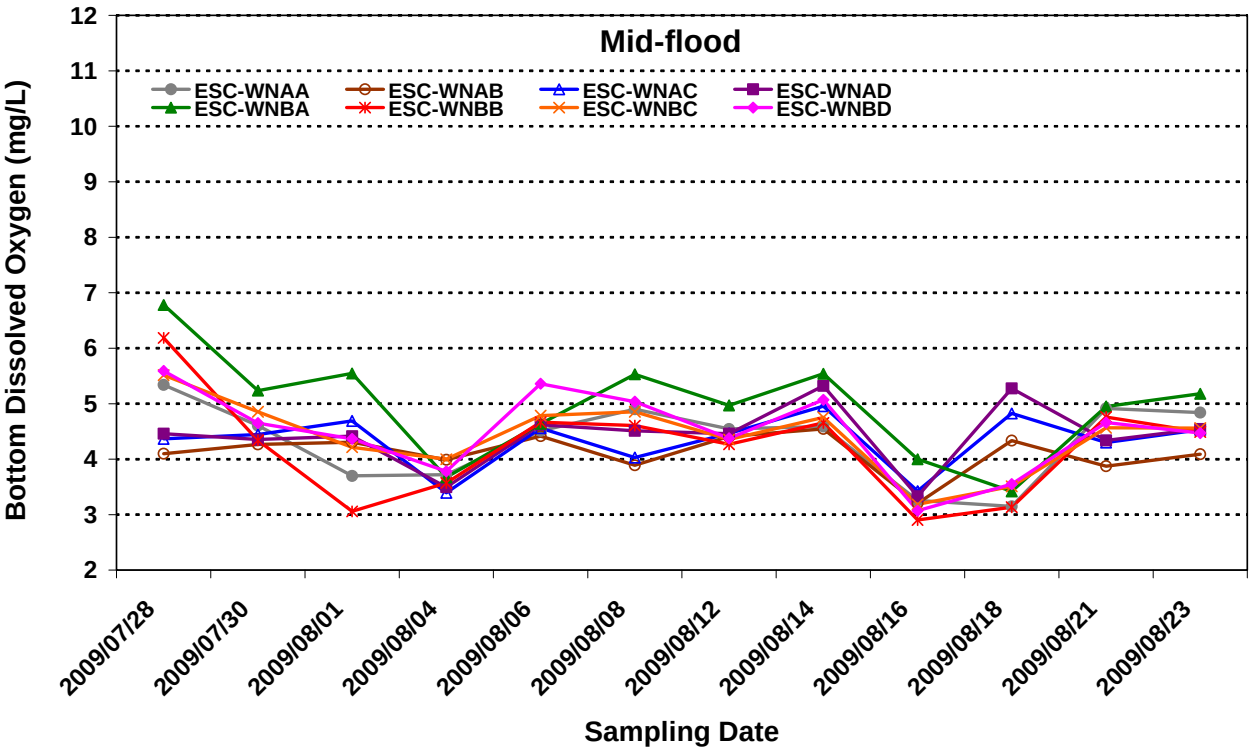

Figure D10 **Dissolved Oxygen (mg/L) near the bottom of the water column measured at Near Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

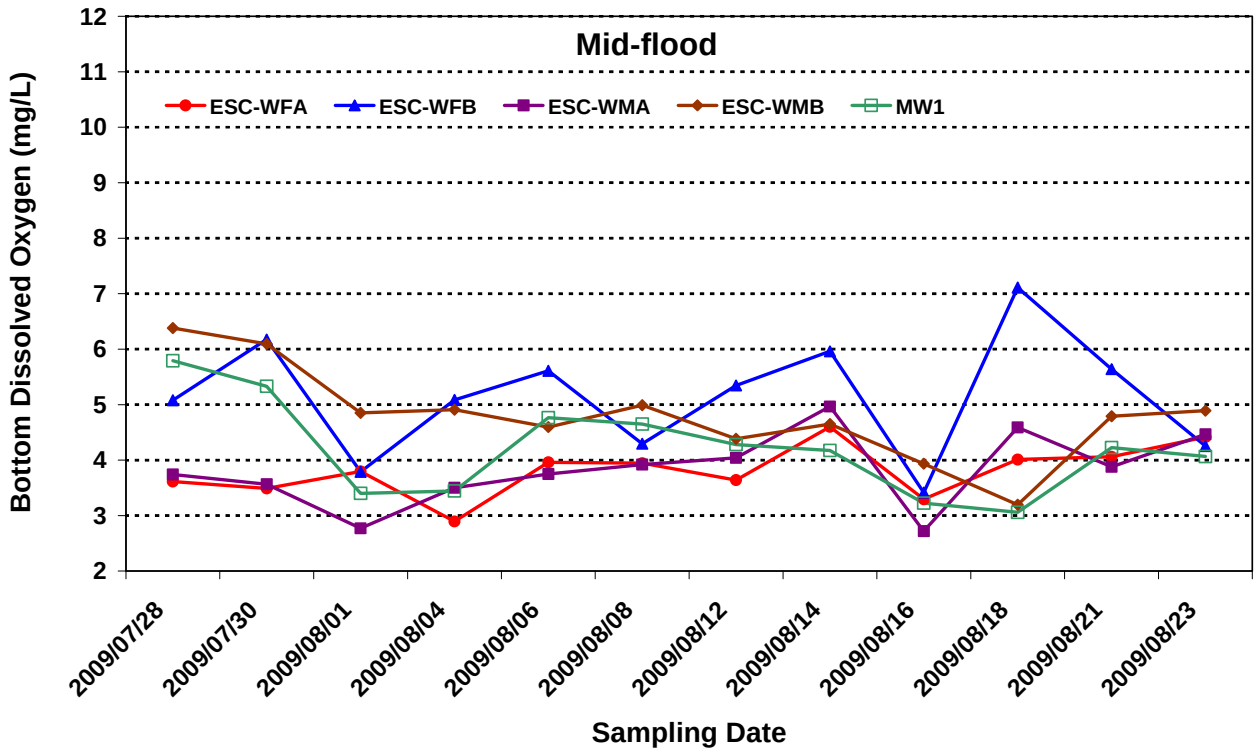

Figure D11 Dissolved Oxygen (mg/L) near the bottom of the water column measured at Mid and Far Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009

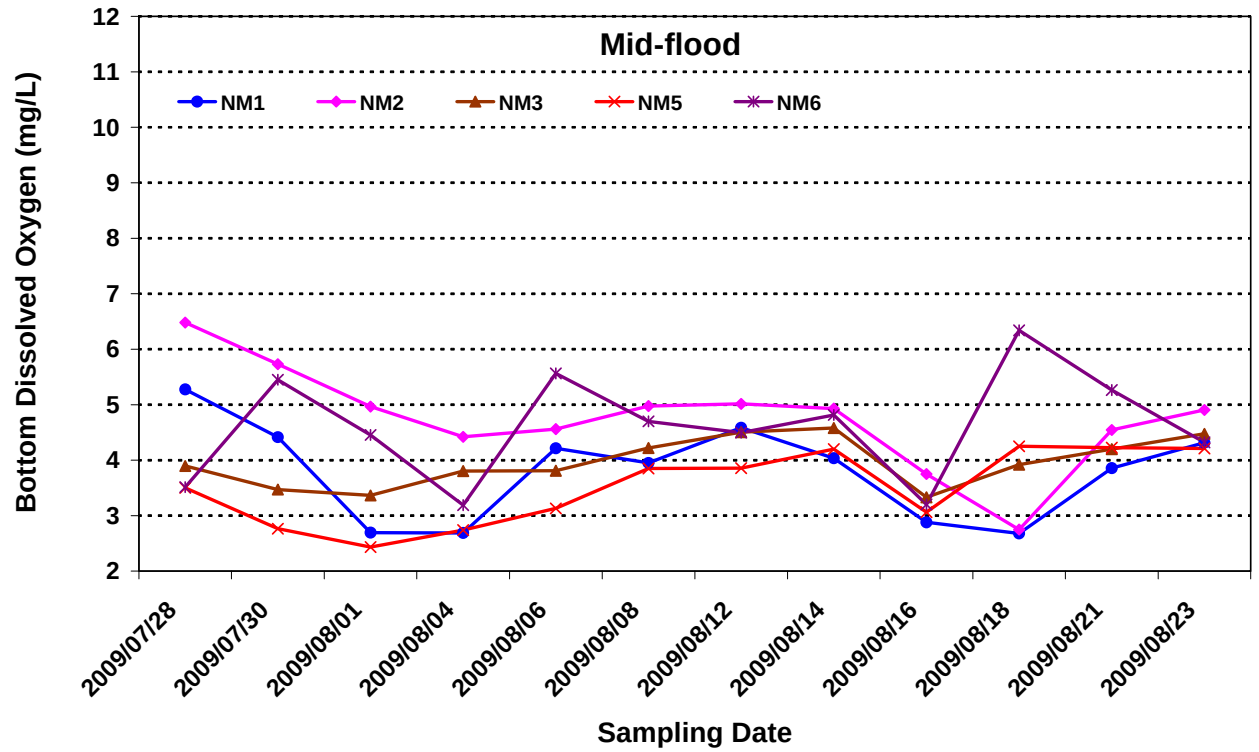

Figure D12 Dissolved Oxygen (mg/L) near the bottom of the water column measured at Reference stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

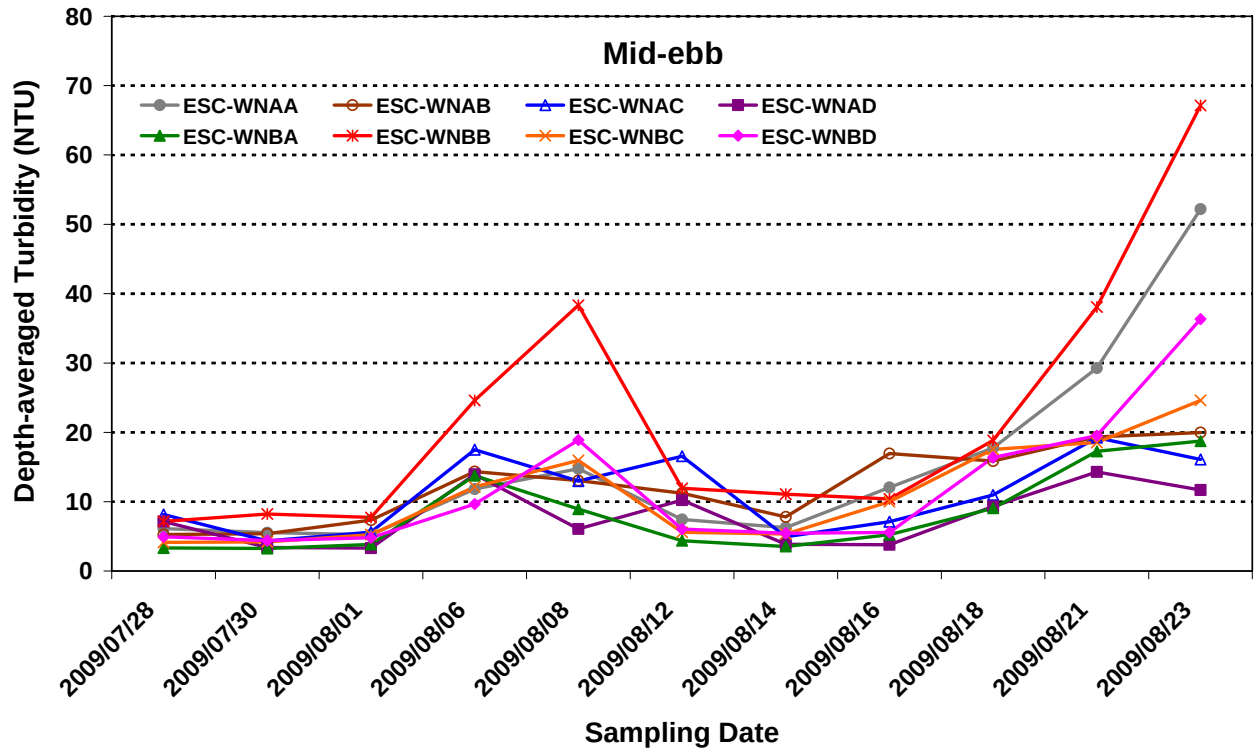

Figure D13 **Depth-averaged turbidity (NTU) of water samples measured at Near Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009**

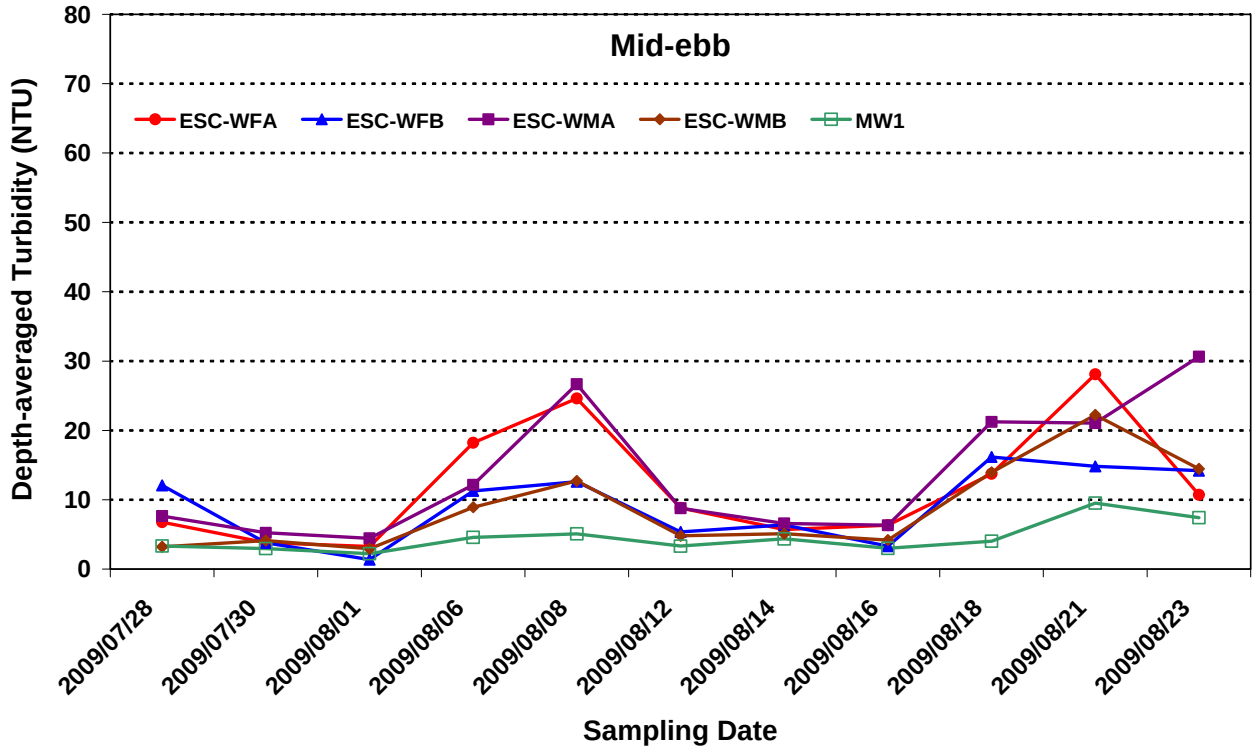

Figure D14 **Depth-averaged turbidity (NTU) of water samples measured at Mid and Far Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

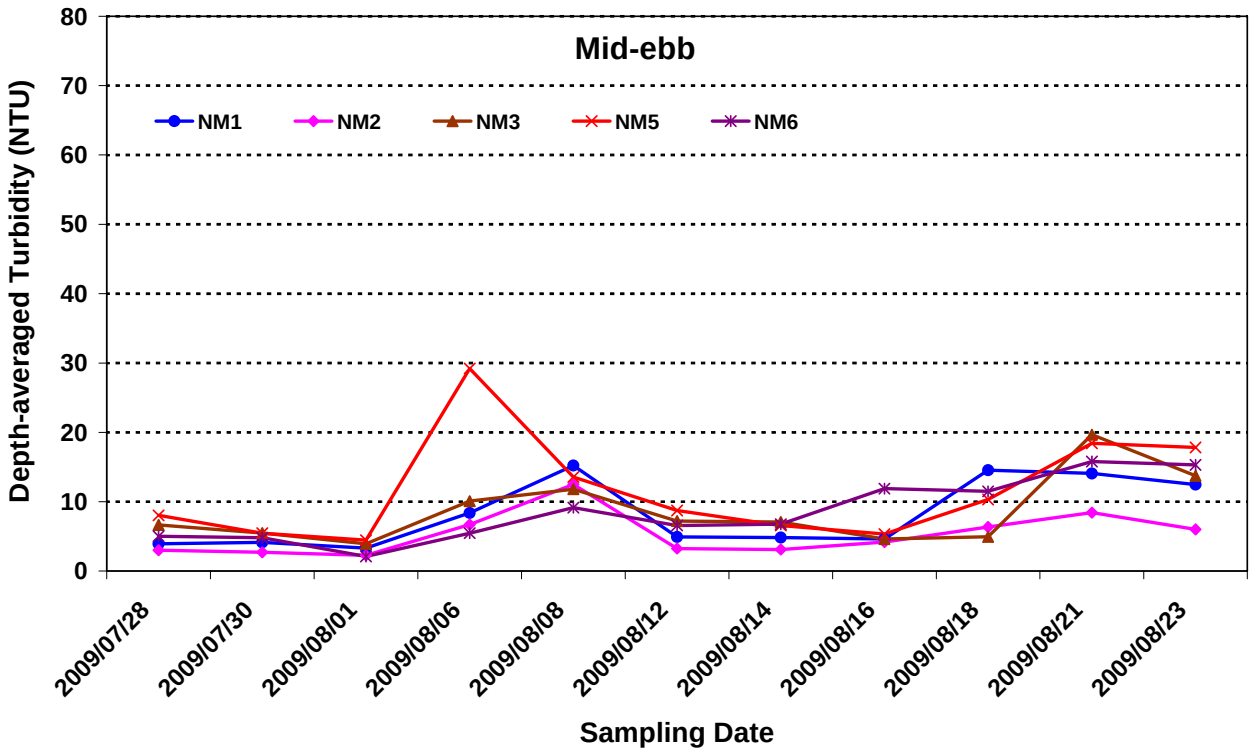

Figure D15 **Depth-averaged turbidity (NTU) of water samples measured at Reference stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

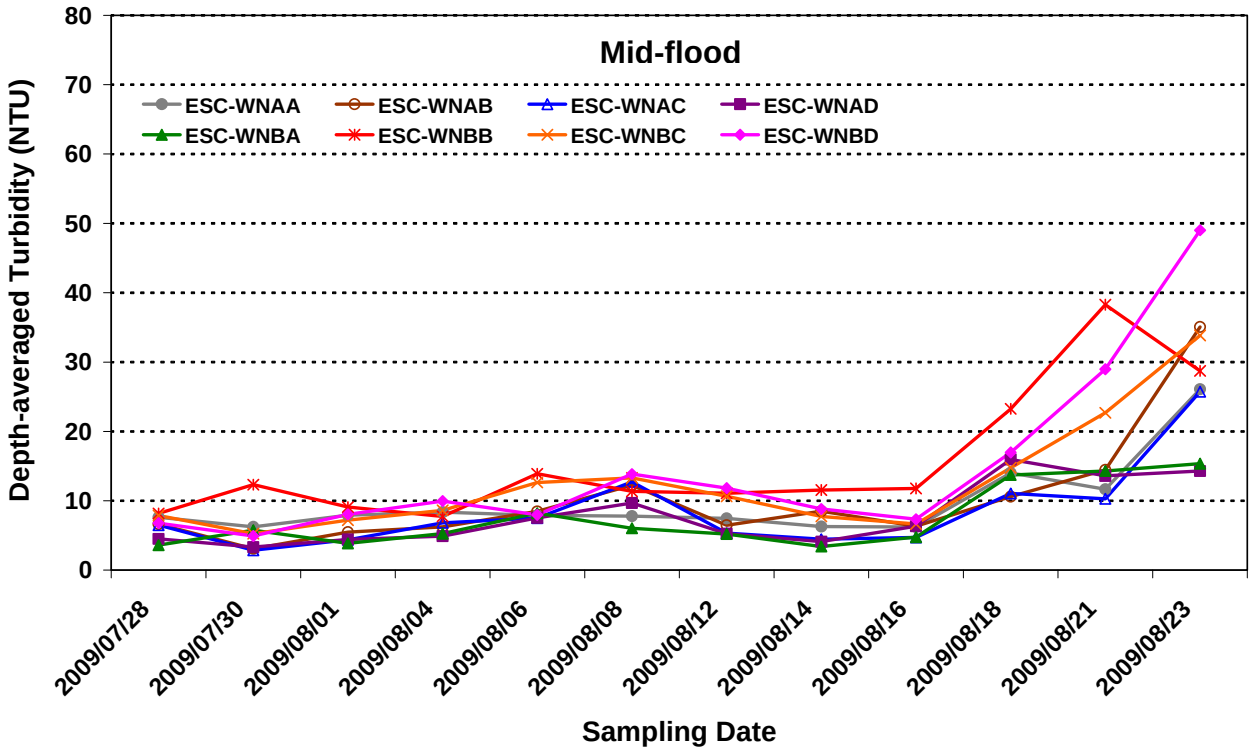

Figure D16 **Depth-averaged turbidity (NTU) of water samples measured at Near Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

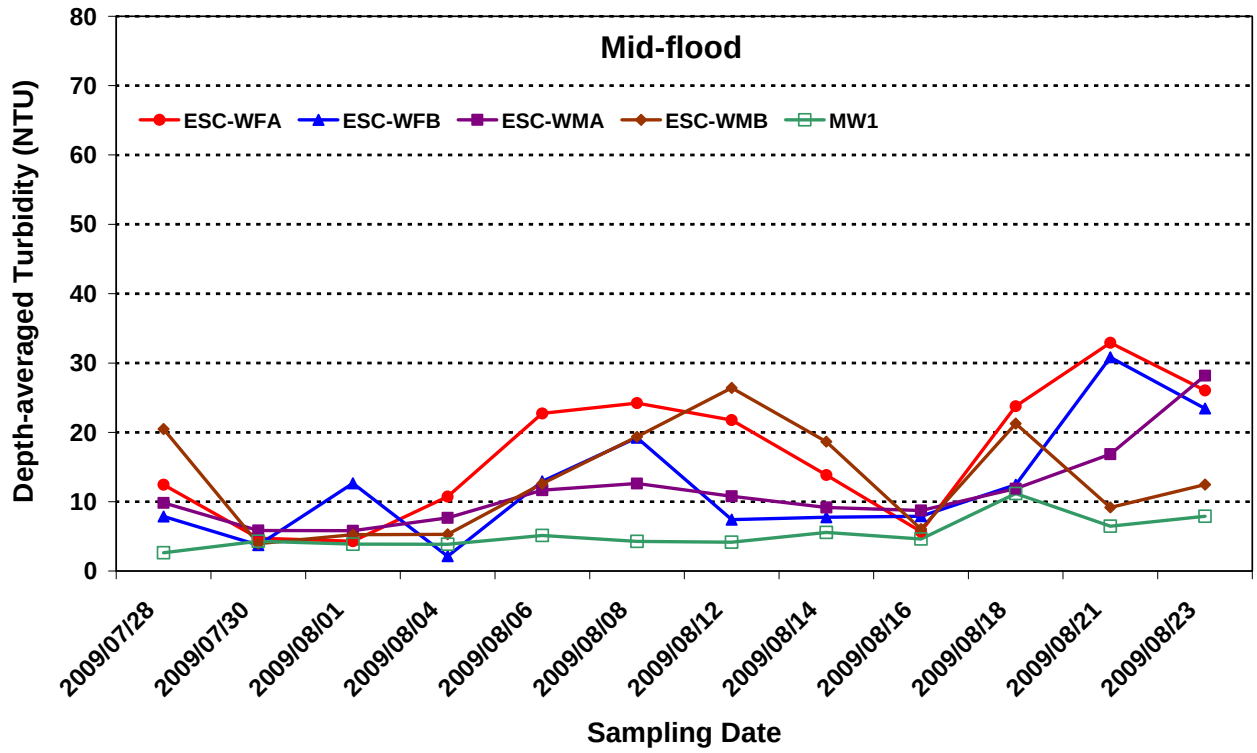

Figure D17 **Depth-averaged turbidity (NTU) of water samples measured at Mid and Far Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.**

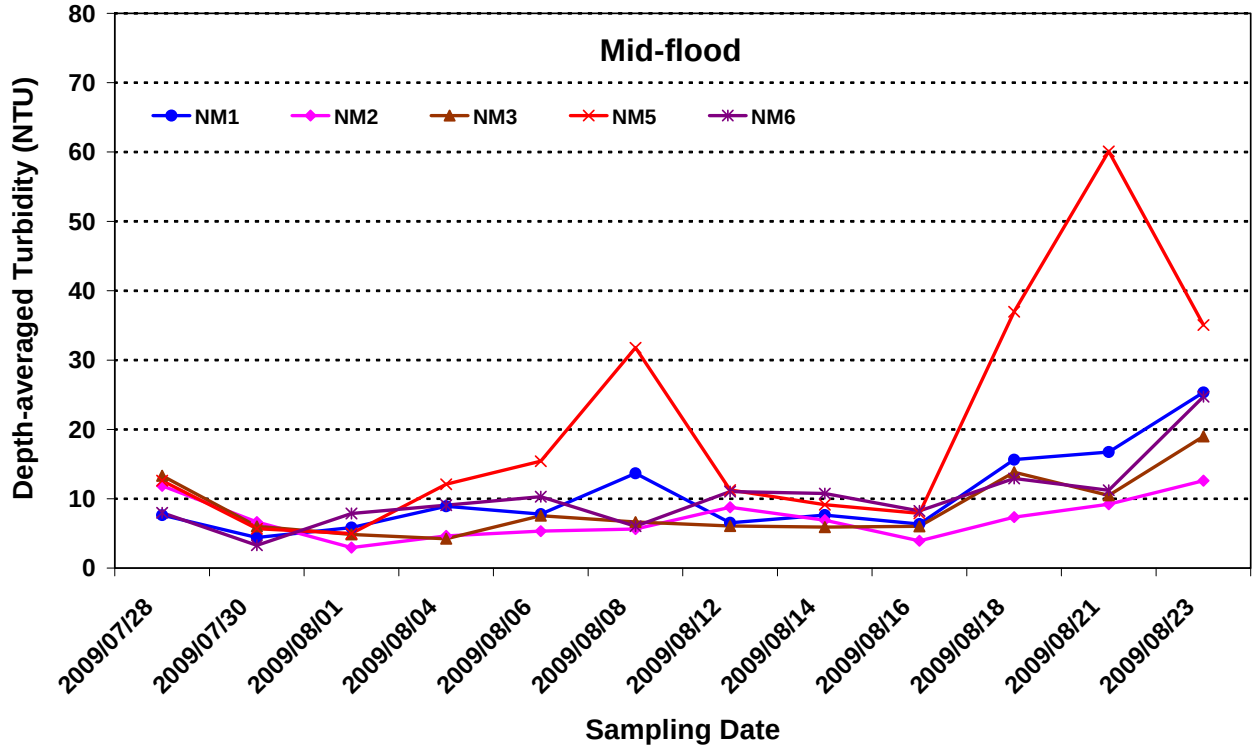

Figure D18 **Depth-averaged turbidity (NTU) of water samples measured at Reference stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_water graphs.doc

Date: 25 August 2009

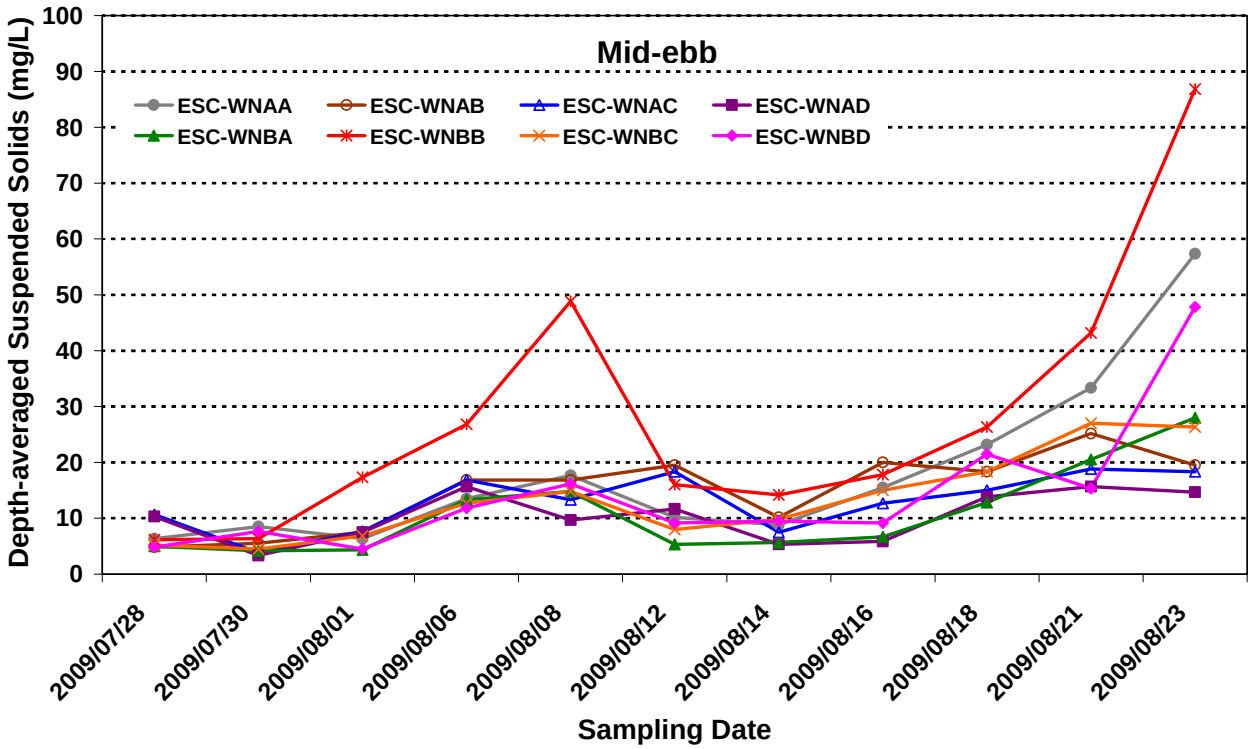

Figure D19 Depth-averaged Suspended Solids (mg/L) of water samples measured at Near Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009

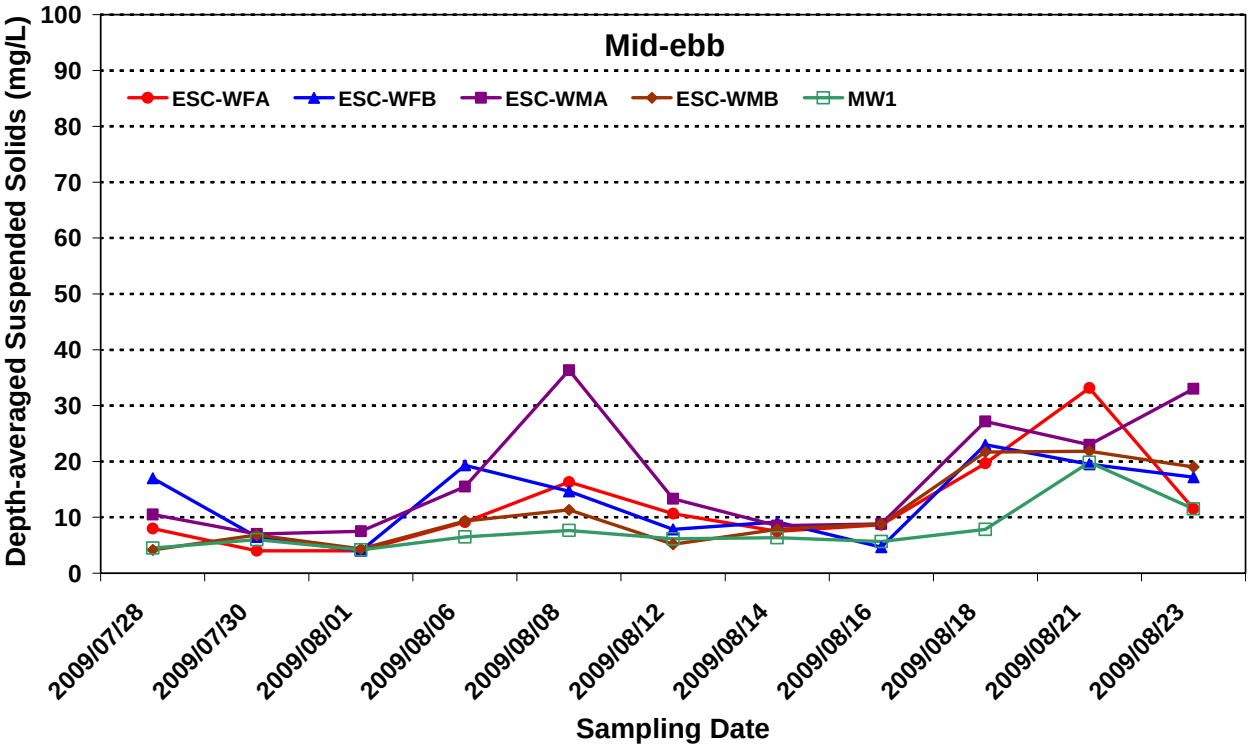

Figure D20 Depth-averaged Suspended Solids (mg/L) of water samples measured at Mid and Far Field stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_SS.doc

Date: 2 September 2009

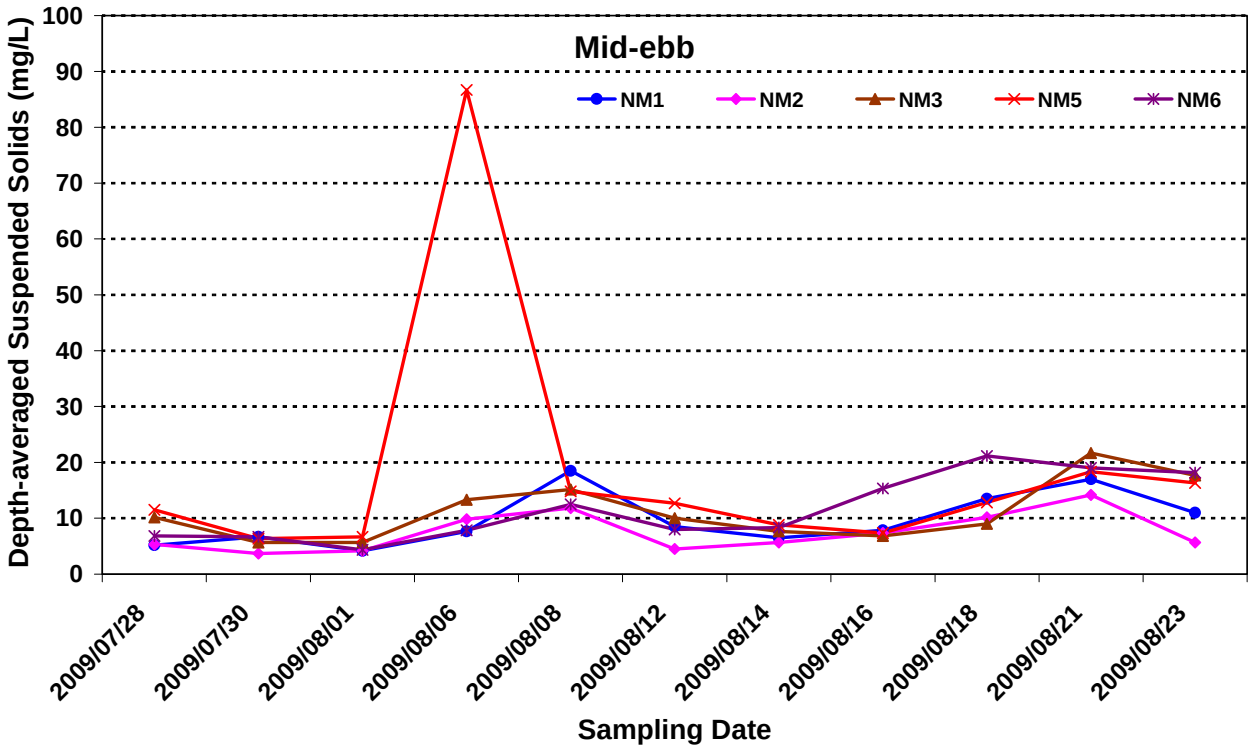

Figure D21 **Depth-averaged Suspended Solids (mg/L) of water samples measured at Reference stations during mid-ebb tide for the baseline monitoring period from 28 July to 23 August 2009.**

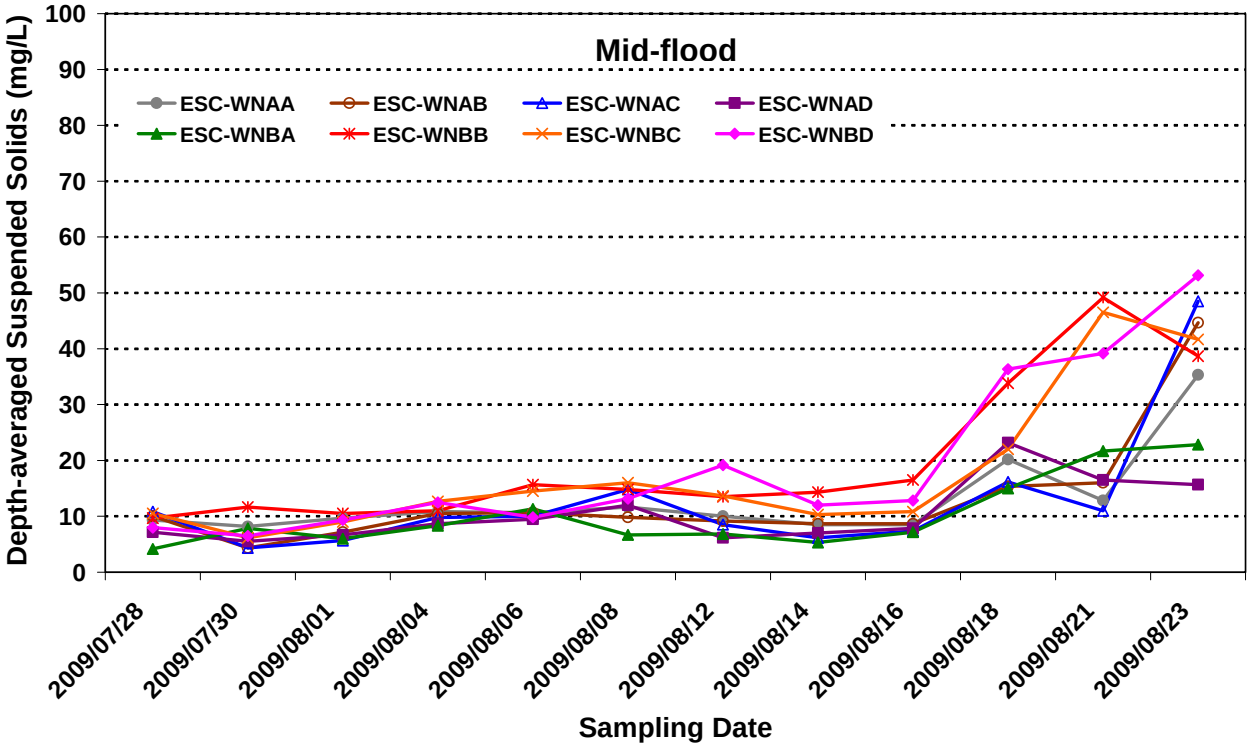

Figure D22 **Depth-averaged Suspended Solids (mg/L) of water samples measured at Near Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009**

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_SS.doc

Date: 2 September 2009

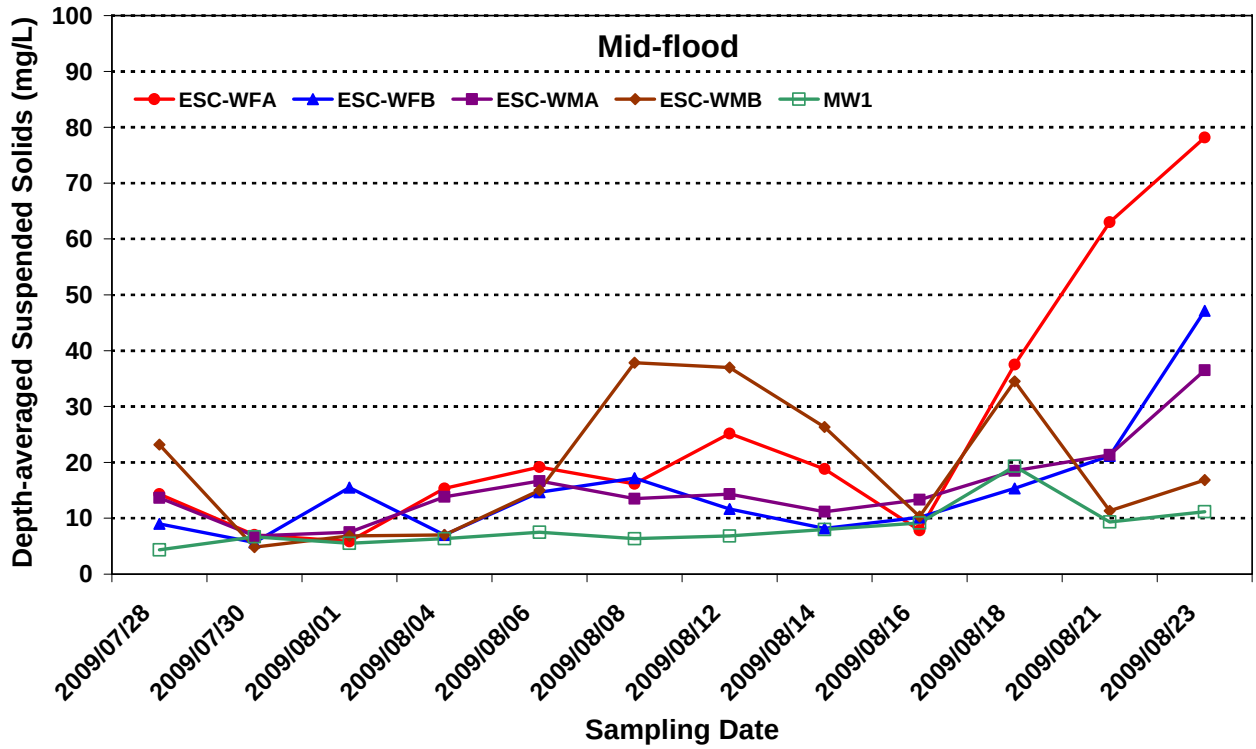

Figure D23 Depth-averaged Suspended Solids (mg/L) of water samples measured at Mid and Far Field stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.

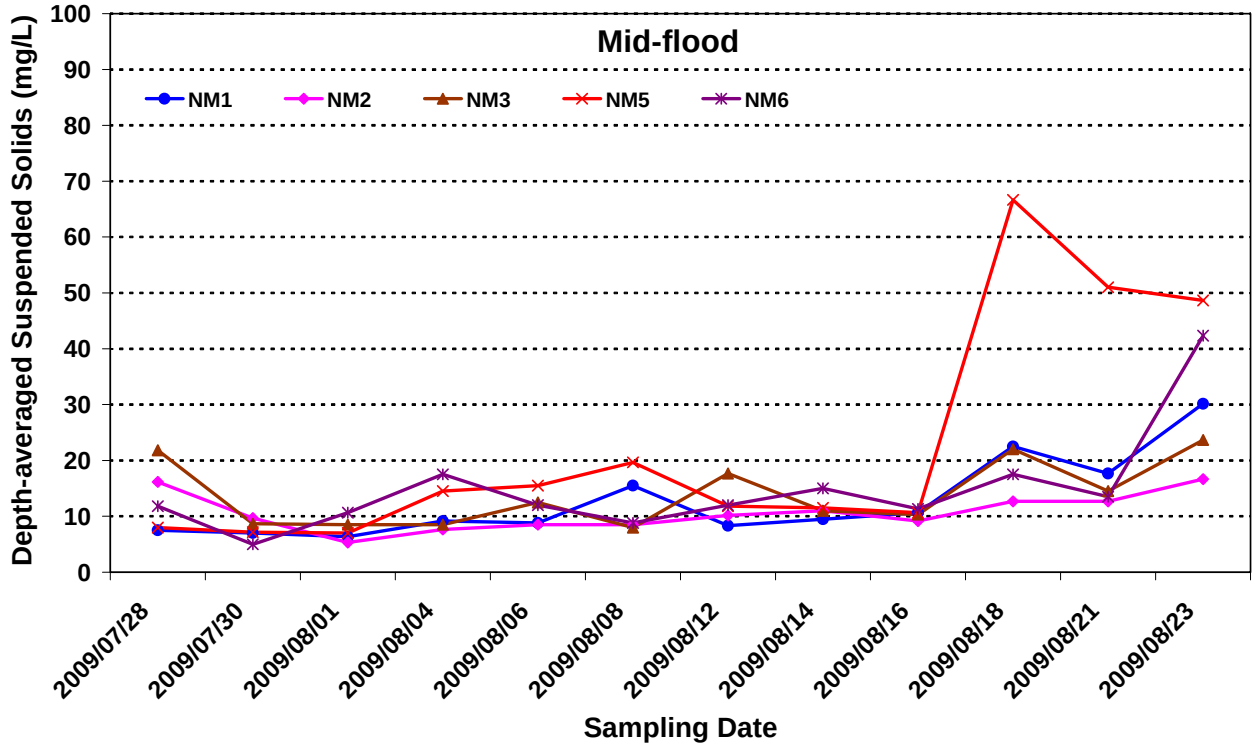

Figure D24 Depth-averaged Suspended Solids (mg/L) of water samples measured at Reference stations during mid-flood tide for the baseline monitoring period from 28 July to 23 August 2009.

Source: H:\Team\EM\GMS Projects\0103262 EM&A for CMP at Sha Chau (2009 - 2013)\05 Deliverables\01. CMP\07 Baseline Monitoring Report\Working files\Annex D_SS.doc

Date: 2 September 2009

Annex D1 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WFA

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	5:19:13 PM	1.1	30.17	10.8	170.2	0.35	7.39	87.86	6.24	4.51	5.28	6.78
				5:21:54 PM	1	30.19	10.66	164.7	0.66	7.42	76.22	5.42	4.51		
			Middle	5:18:24 PM	4.7	28.99	16.71	203.5	0.37	7.18	66.99	4.7	5.21		
				5:21:05 PM	4.6	28.95	17.41	160.4	0.5	7.2	67.79	4.74	4.31		
			Bottom	5:17:15 PM	8.9	27.67	23.05	168	0.24	7.1	50.17	3.47	11.73	3.40	
				5:20:12 PM	9	27.43	24.01	168	0.24	7.13	48.15	3.33	10.42		
		Mid-flood	Surface	11:51:21 AM	1.1	29.36	12.55	35.7	0.14	7.38	73.62	5.25	4.91	4.97	12.46
				11:55:50 AM	0.9	29.36	12.6	38.3	0.14	7.38	76.56	5.46	8.72		
			Middle	11:50:35 AM	4.9	28.95	17.91	14	0.2	7.35	65.66	4.58	4.51		
				11:54:53 AM	4.7	29.03	17.57	6.4	0.12	7.35	65.88	4.6	8.72		
			Bottom	11:49:21 AM	8.9	27.28	24.61	332.3	0.49	7.38	54.78	3.78	21.85	3.62	
				11:53:49 AM	8.8	27.3	24.52	335.1	0.54	7.38	49.96	3.45	26.06		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	7:34:43 PM	1.1	29.77	9.57	160.1	0.24	7.47	81.24	5.85	4.71	5.39	3.83
				7:38:35 PM	1.2	29.57	13.24	343.6	0.29	7.51	79.35	5.62	4.41		
			Middle	7:34:01 PM	4.8	28.8	18.98	205.4	0.06	7.47	74.77	5.19	2.81		
				7:37:52 PM	4.7	28.64	19.42	312.4	0.14	7.48	70.55	4.9	3.01		
			Bottom	7:33:24 PM	7.9	27.27	24.74	252	0.04	7.29	50.72	3.5	4.11	3.47	
				7:37:13 PM	8.1	27.15	25.24	252	0.04	7.37	49.83	3.44	3.91		
		Mid-flood	Surface	3:46:02 PM	1	29.7	11.13	314.3	0.11	7.43	73.92	5.28	4.81	4.50	4.74
				3:50:32 PM	1	29.8	10.73	3.1	0.13	7.44	75.19	5.38	4.71		
			Middle	3:45:07 PM	4.6	28.27	20.31	327.6	0.08	7.34	54.37	3.78	5.81		
				3:49:41 PM	4.7	28.21	20.58	342.4	0.08	7.34	50.89	3.54	4.91		
			Bottom	3:44:28 PM	7.8	27.22	24.88	336.2	0.3	7.33	54.28	3.75	4.31	3.49	
				3:48:57 PM	7.9	27.3	24.46	315.1	0.29	7.34	46.73	3.23	3.91		
2009/08/01	Sunny	Mid-ebb	Surface	9:57:29 AM	1.2	29.4	12.29	186.9	0.62	7.58	73.42	5.24	4.51	4.75	3.26
				9:59:39 AM	1.3	29.39	12.41	186.9	0.62	7.58	72.32	5.16	4.61		
			Middle	9:56:46 AM	5	28.42	19.56	161.9	0.42	7.56	61.82	4.31	2.41		
				9:58:57 AM	4.9	28.37	19.52	183	0.37	7.55	61.65	4.3	2.61		
			Bottom	9:56:10 AM	8	27.59	24.21	171.1	0.36	7.57	63.47	4.37	2.11	4.21	
				9:58:17 AM	7.9	27.48	24.54	168.4	0.38	7.58	58.75	4.05	3.31		
		Mid-flood	Surface	10:24:47 PM	0.9	29.62	12.6	193.4	0.13	7.48	82.51	5.86	4.01	5.34	4.31
				10:28:52 PM	1.1	29.61	12.65	221.5	0.24	7.49	83.03	5.89	4.11		
			Middle	10:23:47 PM	5	28.49	20.6	226.3	0.12	7.48	71.53	4.95	3.41		
				10:27:50 PM	4.9	28.16	21.96	223.4	0.1	7.47	67.41	4.66	4.01		
			Bottom	10:22:50 PM	8	26.92	26.4	190.1	0.15	7.37	55.61	3.83	5.21	3.80	
				10:26:58 PM	7.9	26.89	26.5	200.1	0.16	7.39	54.61	3.76	5.11		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:21:49 AM	1.2	28.62	20.47	310.9	0.46	7.57	79.81	5.52	2.61	4.27	10.74
				5:24:53 AM	1.1	28.61	20.46	310.9	0.46	7.57	81.55	5.64	2.01		
			Middle	5:20:45 AM	5.9	26.58	28.05	325.8	0.5	7.37	43.39	2.98	7.92		
				5:23:53 AM	6	26.58	28.01	338.4	0.5	7.38	42.79	2.93	7.22		
			Bottom	5:19:38 AM	9.9	26.36	28.57	346.9	0.35	7.35	42.57	2.92	23.65	2.90	
				5:22:40 AM	9.1	26.42	28.42	348.2	0.43	7.38	41.88	2.87	21.05		

Annex D1 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	1:42:04 PM	1.1	28.28	16.78	191.6	1.07	7.29	76.49	5.43	7.92	5.48	18.22
				1:47:28 PM	1.1	28.29	16.62	145.4	1.16	7.31	76.93	5.46	7.42		
			Middle	1:41:12 PM	4.1	28	18.84	181.3	0.94	7.31	78.88	5.56	6.52		
				1:46:45 PM	4.2	28.1	18.41	169.3	0.95	7.32	77.53	5.47	6.92		
			Bottom	1:40:10 PM	8.1	27.88	20.2	170.6	0.78	7.26	65.86	4.62	40.38	4.67	
				1:45:50 PM	7.9	27.9	19.98	178.1	0.81	7.28	67.12	4.71	40.18		
		Mid-flood	Surface	6:40:44 AM	1	28.08	16.34	328.5	0.46	7.32	81.24	5.8	8.62	5.32	22.73
				6:45:22 AM	1.1	28.03	16.5	327.6	0.29	7.34	82.25	5.87	9.22		
			Middle	6:39:53 AM	5	27.94	19.78	339.5	0.42	7.3	67.81	4.76	8.22		
				6:44:38 AM	4.9	27.85	20.44	333.6	0.42	7.33	69.42	4.86	10.42		
			Bottom	6:38:59 AM	9.1	27.76	22.31	357.4	0.36	7.31	59.5	4.13	41.89	3.96	
				6:43:49 AM	9.2	27.49	24.55	345.9	0.45	7.32	55	3.79	58.02		
2009/08/08	Cloudy	Mid-ebb	Surface	2:25:34 PM	1	29.65	14.73	163	0.53	7.41	85.3	5.98	4.27	5.02	24.62
				2:32:16 PM	1	29.69	14.8	151.9	0.71	7.52	68.27	4.78	4.47		
			Middle	2:24:54 PM	6.1	28.65	19.83	156.8	0.45	7.25	67.25	4.66	5.69		
				2:31:33 PM	5.9	28.67	19.61	147.1	0.52	7.35	67.36	4.67	5.48		
			Bottom	2:23:51 PM	8.6	28.29	22.02	155.3	0.42	7.22	60.84	4.19	57.6	4.18	
				2:30:38 PM	8.2	28.26	22.17	149	0.85	7.32	60.55	4.17	70.18		
		Mid-flood	Surface	8:06:36 AM	1	28.82	15.09	27.7	0.39	7.44	72.87	5.17	7.82	4.86	24.23
				8:11:29 AM	1	28.85	14.71	21.9	0.38	7.45	73.08	5.2	7.61		
			Middle	8:05:54 AM	5.9	28.35	20	331.1	0.55	7.45	65.26	4.54	11.47		
				8:10:43 AM	6.1	28.31	20.58	332	0.55	7.47	65.16	4.52	12.48		
			Bottom	8:04:56 AM	9.4	27.72	24.55	328.9	0.76	7.45	57.84	3.97	39.25	3.95	
				8:09:15 AM	9.5	27.7	24.72	324.4	0.69	7.46	57.24	3.92	66.73		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:11:35 PM	1.2	28.56	12.32	93.4	0.39	7.58	93.52	6.77	4.57	5.46	8.83
				4:18:56 PM	1	29	13.28	158.6	0.52	7.46	81.98	5.86	4.77		
			Middle	4:10:52 PM	5.9	28.86	22.43	157.6	0.29	7.53	67.99	4.63	9.84		
				4:18:03 PM	5.9	28.81	22.74	141.3	0.33	7.52	67.15	4.57	13.9		
			Bottom	4:10:08 PM	9	28.61	25.1	162.3	0.27	7.57	69.48	4.68	8.32	4.64	
				4:14:30 PM	9	28.57	25.33	161.1	0.25	7.57	68.17	4.59	11.57		
		Mid-flood	Surface	10:54:54 AM	1.1	29.07	12.54	279.4	0.2	7.44	70.94	5.08	6.09	4.38	21.78
				10:58:32 AM	1	29.19	14.4	307.3	0.17	7.42	63.92	4.53	6.19		
			Middle	10:54:09 AM	5.9	28.49	25.92	340.5	0.52	7.58	58.37	3.92	11.97		
				10:57:46 AM	5.9	28.68	24.19	338.8	0.51	7.56	59	3.99	9.95		
			Bottom	10:53:13 AM	9	27.97	28.04	352.6	0.54	7.57	54.8	3.67	44.93	3.64	
				10:56:56 AM	9	27.99	27.98	336.6	0.45	7.56	53.88	3.61	51.52		
2009/08/14	Cloudy	Mid-ebb	Surface	5:53:05 PM	0.9	29.75	13.88	254.4	0.13	7.38	77.55	5.45	4.67	4.91	5.70
				5:55:59 PM	1	29.3	16.95	315	0.21	7.37	74.86	5.22	4.98		
			Middle	5:52:27 PM	4.9	28.43	22.9	72.1	0.07	7.33	64.23	4.39	5.99		
				5:55:23 PM	4.9	28.47	22.72	279.1	0.03	7.36	66.81	4.57	4.88		
			Bottom	5:51:53 PM	8.2	27.98	26.73	161.6	0.16	7.33	60.06	4.05	7.61	4.17	
				5:54:35 PM	7.7	28.22	24.92	272.7	0.17	7.35	63.03	4.28	6.09		
		Mid-flood	Surface	1:31:53 PM	1.2	29.01	14.02	57.1	0.13	7.36	70.31	5	7	4.75	13.85
				1:34:33 PM	1.2	29.01	14.06	359.2	0.07	7.37	64.96	4.62	6.9		
			Middle	1:30:53 PM	4.9	28.52	21.4	26.7	0.16	7.47	71.57	4.93	18.16		
				1:33:46 PM	4.8	28.51	21.66	27.2	0.16	7.47	64.8	4.46	20.9		
			Bottom	1:29:49 PM	7.9	28.05	26.57	329.1	0.5	7.5	73.49	4.96	17.96	4.60	
				1:32:55 PM	8.2	28.18	25.76	346	0.31	7.48	62.77	4.24	12.18		

Annex D1 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	9:56:17 AM	1.2	29.52	14.6	155	0.78	7.67	92.94	6.54	3.56	5.84	6.35
				10:01:19 AM	1.2	29.53	14.61	166.6	0.74	7.67	94.8	6.67	3.46		
			Middle	9:55:42 AM	5.1	28.77	20.57	165.5	0.66	7.47	70.45	4.85	3.86		
				10:00:44 AM	5.2	29.02	19.14	159.2	0.67	7.48	76.73	5.31	3.66		
			Bottom	9:54:59 AM	8.1	28.5	22.59	143	0.51	7.56	77.62	5.31	10.86	5.34	
				10:00:05 AM	8	28.5	22.44	146.8	0.48	7.56	78.36	5.37	12.68		
		Mid-flood	Surface	9:23:43 PM	1.1	29.93	14.96	212.4	0.16	7.48	80.8	5.63	5.28	5.21	5.69
				9:25:45 PM	0.9	29.9	15.07	317.7	0.26	7.49	80.69	5.62	5.28		
			Middle	9:23:08 PM	5	28.98	21.77	312.5	0.13	7.5	66.09	4.51	4.47		
				9:25:09 PM	5	29.18	21.35	324.7	0.19	7.5	74.23	5.06	4.57		
			Bottom	9:22:32 PM	8	27.6	27.09	152.5	0.2	7.41	46.02	3.12	7.61	3.30	
				9:24:34 PM	8	27.7	26.82	129.6	0.14	7.41	51.18	3.47	6.9		
2009/08/18	Cloudy	Mid-ebb	Surface	11:57:09 AM	1	29.82	17.13	167.1	1.32	7.96	99.75	6.88	4.06	6.23	13.75
				12:03:27 PM	1	30.41	16.58	169.8	1.06	7.95	101.61	6.96	4.17		
			Middle	11:56:21 AM	6	28.5	23.11	166.1	0.67	7.78	74.45	5.08	13.8		
				12:02:49 PM	5.9	28.84	20.83	156.6	0.74	7.8	87.37	6	8.83		
			Bottom	11:55:22 AM	8.7	28.33	23.83	117.3	0.6	7.78	79.06	5.39	26.17	5.66	
				12:02:04 PM	8.3	28.42	23.5	158.5	0.82	7.8	86.99	5.93	25.46		
		Mid-flood	Surface	6:20:49 PM	1	29.71	16.19	353.7	0.25	7.34	75.69	5.26	11.47	5.00	23.77
				6:23:49 PM	1.1	29.71	15.41	347.6	0.39	7.35	79.03	5.52	12.18		
			Middle	6:19:52 PM	5	29.09	18.74	14.1	0.21	7.33	63.68	4.41	14.51		
				6:23:03 PM	5.1	28.66	21.08	358.2	0.26	7.36	69.83	4.81	21.81		
			Bottom	6:18:58 PM	8.1	27.84	25.55	333.3	0.52	7.39	56.8	3.87	38.03	4.01	
				6:21:44 PM	8.1	27.82	25.64	330.1	0.55	7.39	61.03	4.15	44.62		
2009/08/21	Sunny	Mid-ebb	Surface	1:44:16 PM	1.1	30.79	20.23	158.4	1.05	7.66	103.71	6.92	9.54	6.64	28.11
				1:39:09 PM	1	30.04	20.52	172	0.87	7.61	101.53	6.85	10.04		
			Middle	1:38:21 PM	6.1	29.13	21.73	179.6	0.76	7.55	94.36	6.42	13.15		
				1:43:39 PM	6.1	29.08	21.99	175.2	0.7	7.57	93.7	6.37	17.97		
			Bottom	1:37:33 PM	8.8	28.98	22.37	202.1	0.56	7.57	95.16	6.47	58.94	6.55	
				1:42:55 PM	9	28.98	22.42	157.1	0.91	7.57	97.54	6.63	59.04		
		Mid-flood	Surface	7:01:50 AM	1	29.25	18.85	16	0.62	7.41	71.56	4.94	9.84	4.72	32.92
				7:07:40 AM	1.1	29.27	18.79	31.6	0.59	7.42	70.83	4.89	11.05		
			Middle	7:00:59 AM	6.1	28.68	23.02	350.7	0.63	7.49	65.26	4.44	18.27		
				7:07:07 AM	6.1	28.85	22.11	345	0.61	7.47	67.51	4.61	19.28		
			Bottom	7:00:00 AM	9.1	27.65	26.78	329.7	0.76	7.51	58.58	3.97	70	4.06	
				7:06:06 AM	9.1	27.82	26.39	327.8	0.75	7.52	61.23	4.15	69.08		
2009/08/23	Sunny	Mid-ebb	Surface	2:45:57 PM	1	30.7	18.79	178.1	0.59	7.23	74.81	5.04	8.84	5.14	10.73
				2:53:45 PM	1.1	30.78	19.64	160.2	1	7.27	81.16	5.44	8.54		
			Middle	2:45:04 PM	5.1	30.28	21.98	144.5	0.48	7.28	73.1	4.87	8.34		
				2:53:04 PM	4.9	30.14	21.7	161	0.54	7.27	77.94	5.22	9.04		
			Bottom	2:44:17 PM	8.3	29.8	22.29	132	0.49	7.25	70.69	4.74	9.84	4.93	
				2:52:04 PM	8.2	29.73	22.12	153.8	0.56	7.25	76.13	5.12	19.78		
		Mid-flood	Surface	8:55:22 AM	1.1	29.7	18.16	349.4	0.63	7.37	68.14	4.69	11.55	4.61	26.06
				9:00:41 AM	1	29.72	18.11	15.9	0.55	7.37	68.62	4.72	11.25		
			Middle	8:54:10 AM	5	28.9	22.5	356.6	0.48	7.43	66.5	4.52	30.72		
				8:59:42 AM	5.1	28.95	22.26	357.7	0.49	7.43	66.23	4.51	30.02		
			Bottom	8:53:05 AM	8.1	28.48	24.59	321.1	0.73	7.46	65.23	4.42	39.76	4.42	
				8:58:57 AM	8.2	28.5	24.54	327	0.71	7.46	65.14	4.41	33.03		

Annex D2 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WFB

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:03:17 PM	1.2	28.66	16.41	277.3	0.09	7.21	78.24	5.53	6.12	4.51	12.08
				4:06:05 PM	0.9	28.63	17.29	329.7	0.12	7.24	78.12	5.49	6.32		
			Middle	4:02:30 PM	2.9	26.2	29.27	128.6	0.15	7.03	45.16	3.1	10.62		
				4:05:13 PM	2.9	27.31	24.42	10.9	0.22	7.13	56.5	3.91	13.03		
			Bottom	4:01:31 PM	4.6	26.07	29.69	133.8	0.17	6.97	46.35	3.18	16.74	2.99	
				4:04:16 PM	4.7	26.09	29.64	20.1	0.06	7.04	40.65	2.79	19.64		
		Mid-flood	Surface	1:13:05 PM	1	29.44	10.83	10.2	0.18	7.6	94.19	6.77	4.31	6.56	7.87
				1:15:41 PM	1	29.47	10.79	14.5	0.18	7.61	94.51	6.79	4.31		
			Middle	1:12:26 PM	3	29.05	12.79	335.3	0.1	7.51	88.72	6.35	3.51		
				1:14:52 PM	3	29.05	13.21	10.8	0.15	7.54	88.53	6.32	3.91		
			Bottom	1:11:33 PM	4.8	28.23	19.27	25.1	0.3	7.49	79.61	5.58	7.22	5.08	
				1:14:03 PM	4.9	27.29	24.9	24.9	0.25	7.44	66.47	4.58	23.95		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:17:33 PM	1	29.59	13.14	138.8	0.05	7.62	105.01	7.44	3.91	7.02	3.79
				6:19:55 PM	1.1	29.59	13.23	92.6	0.09	7.63	104.54	7.4	3.81		
			Middle	6:16:53 PM	3	28.91	17.54	99.8	0.07	7.52	90.47	6.32	3.71		
				6:19:14 PM	2.9	29.43	14.46	119.6	0.14	7.58	98.21	6.92	3.41		
			Bottom	6:15:36 PM	3.9	28.17	21.68	67.5	0.2	7.43	88.66	6.13	4.21	6.31	
				6:18:27 PM	3.7	28.92	17.54	60.5	0.21	7.56	92.8	6.49	3.71		
		Mid-flood	Surface	5:12:51 PM	0	29.69	12.65	5.1	0.08	7.74	104.09	7.38	3.81	6.91	3.74
				5:16:14 PM	0.9	29.67	12.86	58.5	0.17	7.73	96.17	6.81	3.81		
			Middle	5:12:06 PM	2.8	29.47	14.13	5.1	0.08	7.69	97.77	6.9	4.01		
				5:15:37 PM	2.7	29.49	14.08	65.9	0.17	7.68	92.61	6.54	3.61		
			Bottom	5:10:55 PM	3.7	28.73	18.32	38.5	0.21	7.59	85.42	5.96	3.61	6.18	
				5:14:21 PM	3.7	28.85	17.98	60.1	0.28	7.63	91.53	6.39	3.61		
2009/08/01	Sunny	Mid-ebb	Surface	11:04:56 AM	1.2	29.3	14.57	194.8	0.44	7.76	94.47	6.67	2.21	6.13	1.38
				11:10:35 AM	3.9	28.36	23.06	214.1	0.37	7.85	82.27	5.63	1.01		
			Middle	11:04:19 AM	3	28.54	20.09	206.6	0.4	7.71	78.85	5.47	1.31		
				11:09:36 AM	1.2	29.22	14.68	215.1	0.42	7.76	95.65	6.76	2.11		
			Bottom	11:03:40 AM	3.8	28.43	24.21	138	0.29	7.91	85.16	5.78	0.5	5.60	
				11:08:36 AM	3	28.43	21.61	206	0.38	7.74	78.52	5.41	1.11		
		Mid-flood	Surface	9:06:23 PM	1	29.26	16.62	328.1	0.17	7.41	77.85	5.44	7.32	4.12	12.66
				9:08:15 PM	1	29.51	15.78	328.1	0.17	7.46	58.09	4.06	11.33		
			Middle	9:05:50 PM	3	27.22	26.76	101.3	0.05	7.29	51.66	3.53	14.53		
				9:07:41 PM	3	27.22	26.77	27.8	0.06	7.35	50.67	3.46	14.43		
			Bottom	9:05:12 PM	4	27.21	26.88	60.1	0.17	7.24	59.19	4.04	13.43	3.79	
				9:07:05 PM	3.9	27.19	26.88	71.8	0.17	7.35	51.77	3.54	14.93		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	6:43:58 AM	1.1	28.04	23.77	45	0.13	7.57	70.12	4.8	1.41	4.70	2.14
				6:46:58 AM	1	28.04	23.77	89.6	0.13	7.57	70.44	4.83	1.31		
			Middle	6:42:55 AM	4	27.91	24.75	39.3	0.21	7.56	66.66	4.55	2.21		
				6:45:59 AM	4.1	27.97	24.41	43.4	0.23	7.57	67.59	4.62	1.81		
			Bottom	6:41:51 AM	5.9	27.46	27.23	28	0.3	7.51	94.46	6.41	2.01	5.09	
				6:44:55 AM	5.7	27.43	27.23	34	0.33	7.51	55.41	3.76	4.11		

Annex D2 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:19:09 PM	1	27.99	23.16	202.5	0.4	7.44	82.36	5.67	3.91	5.64	11.28
				12:21:31 PM	1.1	27.96	23.18	200.7	0.38	7.46	82.16	5.66	3.91		
			Middle	12:18:27 PM	3	27.95	23.18	202.5	0.37	7.42	81.83	5.63	4.71		
				12:20:52 PM	3	27.92	23.24	200	0.33	7.45	81.12	5.59	4.81		
			Bottom	12:17:38 PM	5	27.73	24.58	193.5	0.44	7.38	73.31	5.03	23.95	5.02	
				12:20:02 PM	5.1	27.73	24.57	198	0.46	7.42	72.9	5	26.36		
		Mid-flood	Surface	8:05:35 AM	1.1	27.69	23.02	20.4	0.44	7.64	86.95	6.02	5.91	5.90	12.95
				8:10:38 AM	0.9	27.7	23.03	38.7	0.37	7.66	86.36	5.98	6.02		
			Middle	8:04:49 AM	2.9	27.7	23.18	31.3	0.33	7.64	85.95	5.94	6.02		
				8:09:55 AM	3	27.7	24.22	40.9	0.42	7.68	82.14	5.65	6.62		
			Bottom	8:04:04 AM	6	27.7	25.02	19.4	0.27	7.68	82.74	5.66	19.74	5.61	
				8:09:02 AM	5.9	27.7	24.97	29.6	0.26	7.7	81.24	5.56	33.37		
2009/08/08	Cloudy	Mid-ebb	Surface	12:55:15 PM	1	28.81	22.01	180.5	0.11	7.48	76.33	5.21	8.12	4.78	12.62
				12:59:29 PM	0.9	29.15	18.15	199.8	0.22	7.53	79.24	5.5	5.79		
			Middle	12:54:20 PM	3	28.12	29.08	203.9	0.22	7.4	63.52	4.22	14		
				12:58:36 PM	2.9	28.11	29.09	190.5	0.22	7.51	63.13	4.2	12.58		
			Bottom	12:53:24 PM	4.9	28.11	29.06	206.1	0.22	7.36	63.12	4.2	16.74	4.17	
				12:57:49 PM	4.9	28.1	29.1	206.1	0.22	7.5	62.23	4.14	18.46		
		Mid-flood	Surface	9:33:53 AM	1.1	28.98	9.9	33.6	0.26	7.6	79.91	5.82	7	5.68	19.22
				9:37:52 AM	1	29.02	10.13	31.2	0.33	7.62	87.45	6.36	5.18		
			Middle	9:33:15 AM	3.1	28.54	21.74	41.1	0.55	7.64	74.89	5.15	8.53		
				9:37:16 AM	3	28.62	20.68	49.7	0.62	7.66	77.81	5.37	8.12		
			Bottom	9:32:21 AM	5.1	28.11	28.83	39.7	0.52	7.64	64.35	4.28	48.38	4.30	
				9:36:20 AM	5	28.12	28.83	35.7	0.44	7.65	64.75	4.31	38.13		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	2:54:08 PM	0.9	28.92	14.15	194	0.11	7.46	95.26	6.79	3.86	6.47	5.36
				2:58:25 PM	1	28.86	15.28	252.9	0.11	7.51	92.93	6.58	4.67		
			Middle	2:53:14 PM	1.9	28.89	18.34	225.4	0.11	7.48	89.79	6.25	5.38		
				2:57:22 PM	2	28.88	17.95	252.9	0.11	7.54	89.35	6.24	5.48		
			Bottom	2:52:31 PM	4	28.32	27.55	66.9	0.19	7.61	82.61	5.52	6.29	5.59	
				2:56:39 PM	4	28.48	27.72	45.6	0.13	7.65	85.07	5.66	6.5		
		Mid-flood	Surface	12:12:41 PM	1.1	28.92	14.51	356.5	0.35	7.56	82.84	5.89	3.35	5.81	7.41
				12:16:35 PM	1	28.9	12.99	27.3	0.24	7.57	82.78	5.94	3.46		
			Middle	12:11:45 PM	2	28.95	16.17	356.5	0.35	7.56	81.52	5.74	3.66		
				12:15:58 PM	2	28.98	16.34	15.1	0.28	7.56	80.5	5.66	3.66		
			Bottom	12:11:01 PM	4	28.86	22.38	36	0.24	7.64	78.3	5.33	10.66	5.35	
				12:15:08 PM	4	28.78	23.04	4.7	0.26	7.65	78.8	5.36	19.68		
2009/08/14	Cloudy	Mid-ebb	Surface	4:45:57 PM	0.9	28.26	16.31	47.1	0.2	7.34	98.34	7	5.89	6.94	6.38
				4:48:21 PM	1.1	28.55	13.07	91.9	0.09	7.43	101.12	7.29	5.18		
			Middle	4:45:21 PM	2.2	28.22	18.61	13.1	0.13	7.33	96.05	6.75	6.29		
				4:47:46 PM	1.9	28.27	16.18	355.7	0.05	7.35	94.44	6.72	5.99		
			Bottom	4:44:40 PM	3.9	28.01	26.55	69.7	0.25	7.29	79.68	5.38	8.12	5.26	
				4:47:00 PM	3.8	28.09	25.46	68.6	0.18	7.34	75.67	5.13	6.8		
		Mid-flood	Surface	2:43:24 PM	0.9	28.25	11.95	16.6	0.27	7.56	105.97	7.73	4.37	7.42	7.77
				2:48:15 PM	0.9	28.68	10.62	22.2	0.34	7.6	97.78	7.13	3.76		
			Middle	2:42:47 PM	2.1	28.45	11.88	9	0.27	7.57	107.26	7.8	4.47		
				2:47:15 PM	2	28.05	12.97	22.2	0.34	7.56	96.13	7	5.48		
			Bottom	2:41:51 PM	4.1	28.21	23.7	13.9	0.25	7.51	97.59	6.67	16.54	5.96	
				2:46:21 PM	3.9	28.24	24.04	7.2	0.26	7.51	77.03	5.25	11.97		

Annex D2 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	11:04:19 AM	1.1	29.69	11.74	195.4	0.47	7.65	107.28	7.64	2.85	7.62	3.30
				11:01:20 AM	1.1	29.98	12.04	169.1	0.55	7.6	105.4	7.46	3.05		
			Middle	11:00:44 AM	2	29.72	12.34	169.1	0.55	7.65	108.97	7.73	3.25		
				11:03:44 AM	2.1	29.62	12.01	192.7	0.38	7.66	107.11	7.63	3.35		
			Bottom	11:00:11 AM	4.3	29.26	15.54	236.4	0.39	7.62	104.5	7.34	3.76	7.35	
				11:03:09 AM	4.2	29.22	15.82	187.3	0.37	7.64	104.88	7.36	3.56		
		Mid-flood	Surface	8:14:40 PM	1.1	29.98	14.89	25.9	0.15	7.54	102.19	7.12	5.38	5.77	7.92
				8:16:32 PM	1	29.64	16.8	45	0.22	7.5	92.2	6.39	6.5		
			Middle	8:14:02 PM	2	29.39	17.85	25.9	0.15	7.4	72.95	5.05	6.9		
				8:15:58 PM	2.1	28.81	21.18	48.6	0.2	7.33	65.86	4.52	7.92		
			Bottom	8:13:22 PM	4.1	27.73	27.96	45.5	0.27	7.19	46.01	3.1	10.15	3.42	
				8:15:23 PM	4	27.75	26.02	58.7	0.26	7.26	54.79	3.73	10.66		
2009/08/18	Cloudy	Mid-ebb	Surface	1:02:51 PM	1	28.19	26.05	192.8	0.68	7.83	75.4	5.09	11.87	4.86	16.18
				1:07:10 PM	1	28.3	25.83	229.9	0.47	7.85	74.87	5.05	12.38		
			Middle	1:01:56 PM	2	27.75	27.71	192.8	0.68	7.77	68.64	4.62	15.22		
				1:06:36 PM	2.1	28.08	26.3	222.3	0.45	7.83	69.37	4.68	13.7		
			Bottom	1:01:03 PM	4	27.37	28.95	220.1	0.52	7.73	65.84	4.43	22.11	4.37	
				1:05:53 PM	4.1	27.36	28.95	195	0.51	7.76	63.86	4.3	21.81		
		Mid-flood	Surface	5:02:01 PM	1.1	29.67	19.98	75.5	0.2	7.49	109.8	7.48	9.84	7.27	12.47
				5:04:20 PM	1	29.62	20.21	68.9	0.18	7.5	104.08	7.08	10.05		
			Middle	5:01:03 PM	2.1	29.52	20.53	30.3	0.15	7.48	108.94	7.41	11.47		
				5:03:34 PM	1.9	29.5	20.67	54.3	0.21	7.49	104.7	7.12	11.47		
			Bottom	5:00:07 PM	4	29.01	23	72.4	0.23	7.46	106.68	7.22	16.94	7.11	
				5:02:50 PM	4	29.08	22.62	72.7	0.2	7.47	103.33	7	15.02		
2009/08/21	Sunny	Mid-ebb	Surface	12:06:00 PM	1	28.66	23.83	217.1	0.35	7.5	95.71	6.49	11.15	6.24	14.81
				12:17:49 PM	1.1	28.56	24.55	208.5	0.32	7.71	91.28	6.17	10.64		
			Middle	12:05:19 PM	3.1	28.14	25.87	226.1	0.21	7.47	92.14	6.23	10.85		
				12:17:04 PM	2.9	28.21	25.88	207.7	0.3	7.7	89.99	6.08	10.85		
			Bottom	12:04:34 PM	5	26.96	28.85	191.6	0.35	7.31	82.58	5.6	23.7	5.68	
				12:16:22 PM	5	26.91	29.12	196.7	0.38	7.62	85.03	5.76	21.69		
		Mid-flood	Surface	8:26:14 AM	1	28.83	20.4	28.9	0.51	7.48	88.41	6.09	8.94	5.81	30.83
				8:31:13 AM	1	28.8	20.71	32.7	0.4	7.48	86.5	5.95	9.54		
			Middle	8:25:33 AM	2.9	28.7	23.42	39.2	0.4	7.49	83.79	5.69	24.8		
				8:30:25 AM	3	28.55	24.22	33.9	0.41	7.49	80.96	5.49	31.83		
			Bottom	8:24:53 AM	5	28.66	24.13	41.2	0.43	7.5	84.27	5.7	38.46	5.64	
				8:29:41 AM	4.9	28.52	24.8	43.1	0.4	7.48	82.56	5.58	71.39		
2009/08/23	Sunny	Mid-ebb	Surface	1:26:04 PM	1.1	29.12	22.39	181.7	0.24	7.29	85.98	5.83	9.04	5.46	14.19
				1:30:49 PM	0.9	29.64	21.87	208.9	0.22	7.36	89.2	6.01	8.54		
			Middle	1:25:19 PM	3.1	27.29	27.23	203.7	0.18	7.19	71.66	4.88	13.66		
				1:30:05 PM	3	27.1	27.74	196.8	0.34	7.25	75.08	5.11	12.15		
			Bottom	1:24:27 PM	5.1	26.62	28.89	186.3	0.31	7.17	65.95	4.5	20.68	4.85	
				1:29:22 PM	4.9	26.63	28.9	202.4	0.23	7.25	76.28	5.2	21.09		
		Mid-flood	Surface	10:23:06 AM	1	29.28	20.39	356.2	0.48	7.44	79.61	5.44	11.95	5.26	23.45
				10:28:41 AM	1.2	28.96	21.53	38.1	0.5	7.46	78.34	5.35	15.36		
			Middle	10:22:18 AM	3.1	28.75	22.18	26.4	0.47	7.42	74.45	5.09	20.18		
				10:27:52 AM	3	28.64	22.78	38.7	0.55	7.44	75.33	5.14	20.89		
			Bottom	10:21:26 AM	4.9	27.29	27.53	28.2	0.28	7.37	59.89	4.07	33.94	4.26	
				10:27:04 AM	4.9	27.03	28.23	47.2	0.33	7.41	65.36	4.44	38.35		

Annex D3 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WMA

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:01:02 PM	0.9	29.67	14.33	140.1	0.59	7.39	82.64	5.81	3.61	5.24	7.65
				6:05:33 PM	0.7	30.24	10.52	125.1	0.43	7.58	95.35	6.78	4.41		
			Middle	6:00:16 PM	6.6	28.09	21.57	127.4	0.43	7.25	60.59	4.2	3.71		
				6:04:44 PM	6.5	28.06	21.68	132.8	0.38	7.26	60.38	4.18	3.71		
			Bottom	5:59:04 PM	13.8	26.18	28.02	121.3	0.28	7.2	44.66	3.08	14.63	3.09	
				6:03:44 PM	14.1	26.19	28	97.8	0.24	7.21	44.84	3.1	15.83		
		Mid-flood	Surface	11:02:28 AM	1	28.89	17.78	236.9	0.74	7.44	72.12	5.04	3.41	4.64	9.84
				11:08:21 AM	1	28.97	17.37	298.7	0.54	7.44	76.56	5.35	3.61		
			Middle	11:01:30 AM	6.7	28.15	21.33	270.7	0.35	7.38	59.76	4.14	4.51		
				11:07:24 AM	6.7	28.11	21.56	322.5	0.28	7.37	57.87	4.01	5.21		
			Bottom	11:00:20 AM	12.7	27.32	24.33	263.3	0.54	7.37	52.93	3.66	18.34	3.74	
				11:06:13 AM	12.7	27.36	23.4	305.4	0.46	7.37	54.95	3.82	23.95		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:20:02 PM	1.1	29.26	17.99	345	0.12	7.69	89.87	6.23	2.31	4.77	5.23
				8:23:45 PM	1.3	29.26	17.78	322.5	0.15	7.72	90.62	6.29	2.61		
			Middle	8:19:19 PM	8	27.27	24.63	237.9	0.08	7.42	47.11	3.25	6.92		
				8:23:04 PM	8.1	27.24	24.7	234.9	0.09	7.44	47.95	3.31	6.72		
			Bottom	8:18:34 PM	13	25.82	29.08	121.8	0.14	7.36	37.87	2.62	6.72	2.57	
				8:22:21 PM	12.8	25.69	29.45	121.8	0.14	7.4	36.36	2.51	6.12		
		Mid-flood	Surface	2:57:39 PM	1	29.96	14.4	261.7	0.44	7.65	77.25	5.4	3.21	5.14	5.85
				3:04:40 PM	0.9	29.94	14.46	261.7	0.44	7.67	97.4	6.81	3.21		
			Middle	2:56:51 PM	7.8	27.82	22.77	272.9	0.26	7.41	61.15	4.23	4.01		
				3:03:29 PM	7.7	27.82	22.74	311.6	0.26	7.42	59.54	4.12	3.61		
			Bottom	2:56:05 PM	12	26.96	25.73	316.6	0.08	7.32	57.67	3.98	11.13	3.57	
				3:02:09 PM	12.7	26.77	26.24	292.3	0.21	7.35	45.63	3.15	9.92		
2009/08/01	Sunny	Mid-ebb	Surface	9:06:03 AM	1	28.96	18.01	173.2	0.55	7.79	76.43	5.32	2.21	4.70	4.45
				9:09:26 AM	1.2	28.91	17.7	131.1	0.4	7.75	72.12	5.04	2.41		
			Middle	9:05:21 AM	7.9	27.1	26.54	115.2	0.13	7.77	60.42	4.14	3.91		
				9:08:53 AM	7.9	27.04	26.35	137.6	0.11	7.76	62.62	4.3	3.21		
			Bottom	9:04:45 AM	13	25.44	30.28	103.9	0.26	7.55	41.06	2.83	6.52	2.80	
				9:08:10 AM	12.6	25.49	30.14	101.6	0.26	7.56	40.07	2.77	8.42		
		Mid-flood	Surface	11:06:49 PM	1	29.59	15.17	137.4	0.28	7.61	87.54	6.13	3.81	5.19	5.82
				11:11:12 PM	1	29.44	15.98	62.5	0.17	7.56	82.21	5.75	3.11		
			Middle	11:05:53 PM	8	27.29	25.64	281.3	0.09	7.56	66.23	4.55	6.22		
				11:10:09 PM	7.9	27.34	25.34	295.2	0.12	7.54	63.02	4.33	6.12		
			Bottom	11:04:41 PM	14.1	25.61	30.09	279.9	0.09	7.38	38.97	2.69	8.02	2.77	
				11:09:07 PM	13.9	25.64	30.02	272.1	0.06	7.39	41.3	2.85	7.62		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	4:39:07 AM	1	28.6	22.17	283	0.31	7.58	82.6	5.66	2.11	4.59	7.67
				4:43:35 AM	1	28.51	21.87	311	0.23	7.59	84.34	5.79	2.41		
			Middle	4:38:00 AM	8.1	27.62	26.84	336	0.45	7.43	46.48	3.15	9.62		
				4:42:32 AM	8	26.62	28.29	324.7	0.4	7.43	54.74	3.75	6.42		
			Bottom	4:36:56 AM	14	26.11	29.34	307.3	0.49	7.37	49.19	3.38	14.23	3.50	
				4:41:44 AM	13.9	26.14	29.3	304.1	0.5	7.4	52.73	3.62	11.23		

Annex D3 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:33:02 PM	1	28.42	17.52	153.6	1.06	7.49	79.34	5.59	6.42	4.94	12.16
				2:38:24 PM	1	28.3	17.89	105.3	0.9	7.48	78.05	5.5	5.31		
			Middle	2:32:13 PM	7.2	27.75	22.42	138.1	0.82	7.45	63.01	4.37	10.22		
				2:37:39 PM	7.2	27.73	22.47	148.5	0.84	7.45	62	4.3	6.92		
			Bottom	2:30:52 PM	12.2	27.58	24.49	118.1	0.7	7.48	59.38	4.08	19.84	4.06	
				2:36:43 PM	13.8	27.56	24.63	108.9	0.63	7.47	58.59	4.03	24.25		
		Mid-flood	Surface	5:56:58 AM	1	27.95	18.07	151.1	0.11	7.2	81.99	5.81	7.02	5.18	11.68
				6:01:37 AM	0.9	27.95	18.08	223	0.1	7.21	82.09	5.82	7.02		
			Middle	5:56:05 AM	7	27.55	25	313.3	0.31	7.2	66.07	4.53	5.41		
				6:00:46 AM	6.9	27.57	24.9	307.5	0.31	7.22	66.18	4.54	5.61		
			Bottom	5:55:03 AM	13.9	27.26	26.8	295.8	0.42	7.2	55.36	3.78	19.94	3.75	
				5:59:52 AM	14	27.25	26.82	296.1	0.56	7.21	54.46	3.72	25.05		
2009/08/08	Cloudy	Mid-ebb	Surface	3:10:12 PM	0.7	30.02	14.58	129.9	1.1	7.64	85.38	5.96	5.08	5.04	26.68
				3:17:59 PM	1	30.15	14.9	125.7	1.11	7.67	85.89	5.97	4.98		
			Middle	3:09:25 PM	7.2	27.89	24.41	116.2	0.7	7.51	59.99	4.11	9.34		
				3:17:10 PM	7.2	27.91	24.36	113	0.67	7.56	60.31	4.13	12.18		
			Bottom	3:08:22 PM	12.4	27.78	24.99	113.7	0.5	7.52	57.49	3.93	66.32	3.95	
				3:15:53 PM	12.7	27.79	24.92	106.5	0.43	7.55	58	3.97	62.17		
		Mid-flood	Surface	7:17:05 AM	1	28.77	17.63	313.8	0.34	7.41	74.01	5.18	6.4	4.76	12.63
				7:20:34 AM	1	28.77	17.62	313.6	0.41	7.42	74.62	5.23	6.09		
			Middle	7:16:19 AM	7.9	27.76	24.36	284.9	0.65	7.41	61.69	4.23	6.8		
				7:19:32 AM	8	27.92	23.55	291.7	0.69	7.43	63.7	4.38	6.9		
			Bottom	7:15:12 AM	14.1	27.54	25.58	285	0.63	7.4	57.89	3.96	21.71	3.92	
				7:18:33 AM	13.9	27.48	25.91	290.3	0.63	7.42	56.79	3.88	27.89		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:56:41 PM	0.9	29.08	17.76	80.5	0.39	7.54	76.74	5.34	4.47	4.73	8.80
				5:00:42 PM	1.4	28.93	20.54	113.2	0.33	7.57	73.66	5.06	4.06		
			Middle	4:55:52 PM	8.2	28.22	27.21	130.5	0.36	7.6	63.15	4.23	7.11		
				4:59:57 PM	8.1	28.3	26.67	136.2	0.38	7.61	63.82	4.28	6.6		
			Bottom	4:55:00 PM	14	27.9	28.15	130.5	0.33	7.59	60.5	4.06	14.91	4.10	
				4:59:13 PM	13.8	27.89	28.17	123.5	0.33	7.59	61.56	4.13	15.62		
		Mid-flood	Surface	10:13:33 AM	1.1	29.02	19.26	295.4	0.49	7.54	76.44	5.28	4.67	4.78	10.79
				10:16:24 AM	0.9	29.04	18.45	292.8	0.46	7.52	75.81	5.26	4.37		
			Middle	10:12:45 AM	7.9	28.58	25.82	294.8	0.54	7.6	64.84	4.35	6.8		
				10:15:34 AM	7.9	28.55	25.92	295.1	0.52	7.6	62.85	4.22	7		
			Bottom	10:11:58 AM	13.9	28.07	27.94	301.3	0.56	7.4	61.43	4.11	20.59	4.04	
				10:14:40 AM	13.7	28.11	27.83	294	0.57	7.59	59.35	3.97	21.3		
2009/08/14	Cloudy	Mid-ebb	Surface	6:30:32 PM	1.1	29.4	16.71	90.5	0.13	7.49	73.8	5.14	4.27	4.55	6.58
				6:33:01 PM	1	29.34	17.08	90.5	0.13	7.49	73.3	5.1	4.17		
			Middle	6:29:56 PM	6.9	28.17	25.37	151.7	0.23	7.5	59.42	4.03	7		
				6:32:16 PM	6.9	28.14	25.58	154.3	0.26	7.49	57.73	3.91	7.41		
			Bottom	6:29:03 PM	12.8	27.41	28.51	175.8	0.08	7.44	48.91	3.3	8.53	3.31	
				6:31:30 PM	13	27.41	28.53	145.2	0.12	7.44	49.1	3.31	8.12		
		Mid-flood	Surface	12:50:22 PM	1.1	28.46	22.79	283	0.77	7.57	90.66	6.2	3.46	5.85	9.19
				12:54:12 PM	1.1	28.54	22.81	285.1	0.65	7.58	87.01	5.94	3.86		
			Middle	12:49:33 PM	8	28.14	24.36	303	0.37	7.56	82.64	5.64	4.37		
				12:53:30 PM	8	28.15	24.46	306.1	0.33	7.57	82.64	5.63	5.28		
			Bottom	12:48:40 PM	13.1	27.76	27.71	271	0.28	7.53	73.93	4.98	18.26	4.97	
				12:52:38 PM	12.9	27.49	28.44	282	0.37	7.53	73.47	4.95	19.88		

Annex D3 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:52:33 AM	1.1	29.32	14.66	146.3	0.8	7.74	84.34	5.95	3.56	5.10	6.33
				8:57:35 AM	1.1	29.3	15.64	123.1	0.67	7.73	87.81	6.16	3.46		
			Middle	8:51:58 AM	7	27.2	28.18	110.7	0.37	7.59	58.05	3.94	5.18		
				8:57:00 AM	6.9	27.1	28.24	113.5	0.26	7.6	63.88	4.34	4.47		
			Bottom	8:51:11 AM	12.9	26.86	29.5	164.8	0.42	7.54	51.07	3.46	13.29	3.95	
				8:56:15 AM	12.9	26.91	29.13	118.5	0.43	7.57	65.54	4.44	8.02		
		Mid-flood	Surface	10:02:55 PM	1.2	29.99	16.11	135.1	0.29	7.68	84.18	5.83	4.17	4.56	8.75
				10:07:05 PM	1	29.99	15.56	37.9	0.11	7.74	88.02	6.11	3.76		
			Middle	10:02:05 PM	8.1	28.11	25.26	3.1	0.04	7.47	47.99	3.26	10.86		
				10:06:19 PM	8.1	27.99	25.44	94.7	0.06	7.47	44.51	3.02	10.86		
			Bottom	10:01:04 PM	14	26.7	29.46	137.9	0.03	7.42	38.28	2.6	12.28	2.72	
				10:05:21 PM	14	26.7	29.49	137.9	0.03	7.43	41.83	2.84	10.55		
2009/08/18	Cloudy	Mid-ebb	Surface	10:55:36 AM	0.9	29.46	19.81	124.3	0.79	7.97	94.42	6.46	3.25	5.65	21.23
				11:01:04 AM	0.9	29.26	20.44	118.7	0.73	7.99	96.02	6.57	3.35		
			Middle	10:54:46 AM	8.1	27.27	27.93	119.8	0.55	7.83	64.47	4.37	9.54		
				11:00:19 AM	8.2	27	28.4	132.9	0.63	7.88	76.23	5.18	11.77		
			Bottom	10:53:52 AM	13.9	26.66	29.2	122.6	0.48	7.8	64.77	4.41	45.74	4.75	
				10:59:28 AM	13.9	26.64	29.24	105.3	0.47	7.81	74.76	5.09	53.75		
		Mid-flood	Surface	7:12:14 PM	1	29.94	17.77	337.6	0.63	7.69	100.48	6.9	4.88	6.20	11.89
				7:16:41 PM	1	29.87	17.93	3.4	0.34	7.66	97.49	6.69	5.69		
			Middle	7:11:25 PM	8	28.82	23.88	290	0.83	7.69	81.26	5.49	6.6		
				7:15:54 PM	7.9	28.78	24.04	296.1	0.77	7.68	84.32	5.7	7.11		
			Bottom	7:10:36 PM	14.1	27.81	26.46	315.9	0.76	7.6	64.91	4.4	22.32	4.59	
				7:14:58 PM	14	27.81	26.42	312.1	0.68	7.6	70.57	4.78	24.75		
2009/08/21	Sunny	Mid-ebb	Surface	2:19:33 PM	1.2	30.21	19.78	142	1.34	7.68	88.05	5.95	8.44	5.82	21.05
				2:27:01 PM	1.1	30.38	19.39	96.3	0.88	7.71	96.45	6.51	9.64		
			Middle	2:18:44 PM	7.1	28.74	23.57	142.5	1.02	7.68	76.14	5.16	15.76		
				2:26:11 PM	7.1	28.71	23.68	139.7	0.91	7.7	83.18	5.64	13.36		
			Bottom	2:17:55 PM	13	28.39	24.91	120	0.66	7.7	76.15	5.15	34.74	5.42	
				2:25:13 PM	12.7	28.27	25.28	116.2	0.67	7.73	83.88	5.68	44.38		
		Mid-flood	Surface	6:15:29 AM	1.1	29.39	19.77	303.2	0.23	7.43	66.34	4.54	8.34	4.44	16.86
				6:17:42 AM	1	29.38	19.76	296.8	0.3	7.44	65.99	4.52	8.34		
			Middle	6:14:55 AM	7.1	28.79	24.02	303.8	0.56	7.52	64.79	4.38	9.34		
				6:17:06 AM	7.2	28.76	24.08	311.5	0.62	7.52	63.87	4.32	10.54		
			Bottom	6:14:01 AM	13	27.44	27.31	290	0.76	7.51	56.64	3.84	33.54	3.88	
				6:16:18 AM	13.1	27.42	27.37	302.3	0.72	7.54	57.76	3.92	31.03		
2009/08/23	Sunny	Mid-ebb	Surface	3:30:49 PM	1.1	30.54	21.49	149.2	0.99	7.31	84.7	5.64	8.13	5.11	30.62
				3:36:50 PM	1	30.34	21.64	131.5	0.71	7.33	82.61	5.51	8.74		
			Middle	3:30:04 PM	8.1	28.39	24.9	113.7	0.69	7.25	68.61	4.64	22.49		
				3:36:04 PM	8.1	28.25	25.29	114.8	0.62	7.29	68.42	4.63	31.63		
			Bottom	3:29:04 PM	13	27.74	26.55	135.7	0.52	7.26	68	4.61	66.97	4.84	
				3:34:58 PM	13.1	28.11	25.67	111.7	0.51	7.32	74.66	5.06	45.78		
		Mid-flood	Surface	8:07:01 AM	1.1	29.43	20.64	271.6	0.7	7.4	69.76	4.75	8.84	4.59	28.18
				8:12:04 AM	1	29.58	19.64	320.3	0.7	7.4	72.82	4.98	8.84		
			Middle	8:06:07 AM	8	28	25.87	291.5	1.05	7.46	63.2	4.28	13.05		
				8:11:11 AM	7.9	28.33	25.08	306.7	1.09	7.46	64.09	4.34	14.56		
			Bottom	8:05:10 AM	13	27.49	27.07	313.7	0.81	7.48	63.9	4.34	59.34	4.47	
				8:10:15 AM	13.1	27.53	26.97	313.7	0.81	7.49	67.65	4.59	64.46		

Annex D4 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WMB

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	5:35:11 PM	1.2	29.52	14.5	134.7	0.56	7.45	115	8.09	3.45	7.59	3.21
				5:38:11 PM	1.2	29.55	14.45	136.7	0.57	7.46	109.56	7.71	3.45		
			Middle	5:33:53 PM	4.1	29.04	17.21	117.7	0.35	7.35	108.27	7.57	2.64		
				5:37:07 PM	4.2	28.9	18.27	134.8	0.36	7.36	100.17	6.98	2.64		
			Bottom	5:32:46 PM	6.7	27.97	22.05	163.8	0.19	7.24	95.63	6.62	3.55	6.39	
				5:36:08 PM	7.2	27.62	23.29	84.1	0.16	7.28	89.06	6.16	3.55		
		Mid-flood	Surface	11:24:11 AM	1	29.3	14.74	122.3	0.06	7.39	107.94	7.61	3.76	7.09	20.47
				11:28:31 AM	1.2	29.25	15.16	180	0.04	7.39	101.12	7.12	3.76		
			Middle	11:23:17 AM	4.2	28.14	20.68	286.8	0.31	7.33	101.24	7.05	16.74		
				11:27:11 AM	4.1	28.28	20.08	304.6	0.24	7.34	94.33	6.57	11.77		
			Bottom	11:21:36 AM	7	27.41	23.72	300.5	0.28	7.28	97.48	6.75	40.77	6.38	
				11:25:39 AM	6.9	27.31	24.08	303.4	0.25	7.3	86.77	6.01	46.04		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	7:19:10 PM	1	29.53	17.2	357.2	0.17	7.75	103.26	7.16	4.67	6.59	4.13
				7:22:46 PM	1.2	29.53	17.21	282.7	0.14	7.74	103.56	7.18	4.67		
			Middle	7:17:58 PM	4.2	29.04	20.06	193.1	0.47	7.6	86.25	5.93	2.13		
				7:21:33 PM	3.9	29.09	19.85	317.4	0.17	7.61	88.35	6.08	2.23		
			Bottom	7:16:53 PM	7	27.12	25.33	257.5	0.13	7.39	60.83	4.2	6.19	4.28	
				7:20:22 PM	7	27.26	24.72	278.6	0.24	7.41	63.14	4.36	4.87		
		Mid-flood	Surface	2:48:42 PM	1.1	29.54	17.69	316.5	0.26	7.63	112.36	7.77	2.54	6.75	3.96
				2:51:52 PM	1.3	29.55	17.69	310.8	0.31	7.64	105.9	7.32	2.54		
			Middle	2:47:20 PM	4	28.17	21.66	283.6	0.21	7.44	88.41	6.12	3.86		
				2:50:53 PM	3.9	28	22.41	289.4	0.28	7.41	83.88	5.8	5.58		
			Bottom	2:46:12 PM	5.6	27.66	23.52	310.2	0.31	7.38	90.68	6.26	4.16	6.10	
				2:49:36 PM	5.9	27.6	23.79	273.8	0.21	7.4	85.87	5.93	5.07		
2009/08/01	Sunny	Mid-ebb	Surface	10:01:03 AM	1	29.1	14.24	123.9	0.47	7.66	105.33	7.48	2.54	6.39	2.95
				10:05:12 AM	1	29.4	14.6	120.2	0.22	7.67	100.18	7.06	2.44		
			Middle	9:59:50 AM	4.1	28.18	22.81	130.7	0.37	7.6	81.17	5.58	2.23		
				10:04:16 AM	4	28.26	22.48	143.1	0.49	7.62	79.16	5.44	2.03		
			Bottom	9:58:52 AM	6.7	28.04	23.39	128.4	0.38	7.51	90.29	6.2	3.86	5.96	
				10:03:12 AM	7	28.05	23.32	153.7	0.33	7.52	83.18	5.71	4.57		
		Mid-flood	Surface	9:55:00 PM	1.2	30.1	13.52	9.5	0.26	7.59	102.21	7.16	4.26	7.07	5.26
				9:58:01 PM	1.1	29.92	15.57	178.7	0.09	7.67	103.11	7.17	3.96		
			Middle	9:53:47 PM	3.7	29.03	19.47	51.2	0.07	7.59	101.3	6.99	2.74		
				9:57:00 PM	3.9	29.38	18.77	266	0.17	7.63	101.11	6.97	3.05		
			Bottom	9:52:37 PM	7.1	26.99	26.89	298	0.22	7.41	71.67	4.91	8.62	4.85	
				9:56:02 PM	7.1	27.03	26.77	228.7	0.24	7.41	69.87	4.79	8.93		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	4:51:07 AM	1	28.02	23.27	314.1	0.39	7.67	78.97	5.43	3.25	4.89	5.31
				4:54:43 AM	1	28.05	23.05	308.2	0.57	7.66	77.27	5.32	3.35		
			Middle	4:50:04 AM	4	27.45	26.45	302.8	0.39	7.62	66.24	4.52	5.99		
				4:53:48 AM	4.1	27.49	26.36	310.5	0.4	7.61	63.03	4.3	6.29		
			Bottom	4:48:53 AM	7.1	26.78	28.47	332.9	0.4	7.63	74.71	5.09	4.97	4.91	
				4:52:39 AM	7.1	26.66	28.9	313.6	0.39	7.61	69.38	4.73	8		

Annex D4 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	1:25:27 PM	1.2	28.09	20.82	126.7	0.82	7.47	107.79	7.5	5.28	7.29	8.93
				1:28:29 PM	1.1	28.09	20.89	107	0.63	7.45	97.57	6.79	5.99		
			Middle	1:24:30 PM	4.1	27.93	22.07	125.2	0.79	7.5	111.37	7.72	6.49		
				1:27:28 PM	4.1	27.91	22.01	125.2	0.75	7.49	102.92	7.14	6.8		
			Bottom	1:23:26 PM	7.1	27.78	23.55	138.3	0.88	7.52	119	8.2	15.92	7.74	
				1:26:27 PM	6.9	27.82	23.01	138.1	0.58	7.51	105.21	7.27	13.08		
		Mid-flood	Surface	6:25:46 AM	1.2	27.83	21.28	298.8	0.32	7.52	76.82	5.36	5.38	5.21	12.61
				6:29:03 AM	1	27.81	21.72	317.4	0.3	7.52	74.92	5.21	5.68		
			Middle	6:24:40 AM	3.7	27.72	23.24	318	0.25	7.54	74.06	5.12	5.89		
				6:28:10 AM	3.9	27.7	23.16	316.5	0.52	7.54	74.43	5.15	6.09		
			Bottom	6:23:32 AM	6.9	27.53	26.65	317.6	0.17	7.58	67.83	4.61	23.83	4.60	
				6:26:56 AM	7	27.53	26.67	318.7	0.28	7.58	67.31	4.58	28.8		
2009/08/08	Cloudy	Mid-ebb	Surface	2:22:10 PM	1.3	29.81	14.05	118.6	0.91	7.56	101.47	7.12	4.16	6.54	12.71
				2:24:45 PM	1	29.72	14.78	121.3	0.89	7.55	96.14	6.73	4.47		
			Middle	2:21:21 PM	4.3	28.61	20.7	116.4	0.64	7.41	90.86	6.27	5.58		
				2:24:04 PM	3.8	28.9	18.73	117.1	0.64	7.43	86.67	6.02	6.8		
			Bottom	2:20:26 PM	7.1	28.15	23.14	129.5	0.49	7.39	80.62	5.53	26.47	5.46	
				2:23:04 PM	7.1	28.15	23.29	118.6	0.42	7.39	78.42	5.38	28.8		
		Mid-flood	Surface	7:37:41 AM	1.2	28.9	16.52	289.5	0.62	7.46	77.88	5.48	5.68	5.11	19.36
				7:39:51 AM	1.3	28.9	16.31	297	0.6	7.47	75.88	5.34	6.6		
			Middle	7:36:57 AM	4	28.54	20.18	298.8	0.58	7.45	72.34	5.02	16.23		
				7:39:05 AM	4	28.26	22.1	314.4	0.53	7.45	66.61	4.59	24.14		
			Bottom	7:35:50 AM	6.3	27.92	23.94	307.9	0.45	7.44	74.45	5.11	28.7	4.99	
				7:38:26 AM	7	27.88	24.18	318.6	0.37	7.45	71.04	4.87	34.78		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:20:21 PM	1.2	28.81	14.59	103.6	0.71	7.51	89.49	6.37	3.55	5.51	4.80
				4:23:31 PM	1.2	28.88	15.08	103.6	0.71	7.51	85.09	6.03	3.55		
			Middle	4:19:16 PM	4.1	28.61	23.83	139.5	0.35	7.53	72.38	4.91	4.87		
				4:22:35 PM	4	28.57	24.07	127.6	0.34	7.54	69.78	4.73	5.07		
			Bottom	4:18:11 PM	6.9	28.52	24.51	149.1	0.24	7.52	73.08	4.95	5.89	4.81	
				4:21:32 PM	7.1	28.51	24.62	163.4	0.21	7.54	69.07	4.67	5.89		
		Mid-flood	Surface	10:37:14 AM	1.3	28.74	22.73	276	0.63	7.52	78.17	5.33	4.97	5.08	26.42
				10:45:25 AM	1.1	28.79	22.16	299.9	0.23	7.49	78.63	5.37	6.19		
			Middle	10:34:14 AM	4.4	28.51	24.52	289.6	0.52	7.5	73.47	4.98	27.79		
				10:44:15 AM	4.2	28.44	25.29	301.7	0.53	7.48	68.5	4.62	23.22		
			Bottom	10:32:02 AM	7	27.99	27.25	308.1	0.35	7.46	67.87	4.57	45.94	4.39	
				10:38:35 AM	7.1	28	27.23	314.9	0.36	7.48	62.48	4.2	50.4		
2009/08/14	Cloudy	Mid-ebb	Surface	5:55:24 PM	1	28.99	16.36	142.5	0.19	7.33	91.24	6.41	3.15	5.86	5.11
				5:58:28 PM	1.3	29	17.43	156.8	0.18	7.35	89.27	6.24	3.35		
			Middle	5:54:14 PM	4	28.56	21.5	162.5	0.1	7.31	79.76	5.49	4.36		
				5:57:27 PM	4	28.58	21.5	148.6	0.05	7.31	76.96	5.29	4.47		
			Bottom	5:56:23 PM	7.1	27.71	27.08	244.7	0.02	7.27	64.77	4.38	7.1	4.42	
				5:52:54 PM	7	27.69	26.99	272.1	0.08	7.26	65.73	4.45	8.22		
		Mid-flood	Surface	1:14:28 PM	1.4	28.74	19.06	272.4	0.14	7.44	89.48	6.22	4.97	5.32	18.66
				1:17:51 PM	1.3	28.81	18.62	272.4	0.14	7.44	84.01	5.85	5.28		
			Middle	1:13:13 PM	3.8	27.84	25.91	273.3	0.32	7.39	69.82	4.74	20.79		
				1:16:47 PM	4.1	27.79	26.16	298.5	0.48	7.38	65.53	4.45	20.39		
			Bottom	1:12:14 PM	7.1	27.64	27.01	295.3	0.32	7.38	71.61	4.85	27.99	4.65	
				1:15:47 PM	7	27.6	27.12	302.7	0.24	7.38	65.64	4.45	32.55		

Annex D4 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	9:20:03 AM	1.5	29.53	16.29	126	0.54	7.41	96.92	6.75	3.15	5.90	4.19
				9:23:10 AM	1.2	29.5	16.33	114.3	0.86	7.42	90.38	6.3	2.84		
			Middle	9:19:03 AM	3.9	28.53	22.79	119.3	0.35	7.35	79.07	5.4	2.23		
				9:22:11 AM	3.8	28.65	22.2	101	0.72	7.36	75	5.13	2.34		
			Bottom	9:18:08 AM	6.6	28.05	26.2	146	0.41	7.31	70.19	4.74	7.3	4.49	
				9:21:12 AM	6.9	28.03	26.27	155.7	0.37	7.32	62.67	4.24	7.3		
		Mid-flood	Surface	9:19:12 PM	1.3	30.21	15.49	122.3	0.22	7.48	91.15	6.31	4.26	5.48	6.05
				9:22:01 PM	1	30.29	14.48	149.1	0.19	7.48	92.01	6.39	4.26		
			Middle	9:18:16 PM	4.3	29.01	20.87	162.3	0.19	7.34	68.9	4.72	4.67		
				9:21:02 PM	4.6	27.99	26.24	320.3	0.05	7.32	66.43	4.49	5.68		
			Bottom	9:17:25 PM	6.6	27.13	28.3	302.9	0.23	7.22	56.88	3.86	8.72	3.94	
				9:20:05 PM	6.9	27.16	28.26	302.9	0.23	7.28	59.07	4.01	8.72		
2009/08/18	Cloudy	Mid-ebb	Surface	11:39:22 AM	1.7	29.43	20.8	116.7	0.9	7.62	79.99	5.44	2.44	4.60	13.95
				11:42:49 AM	1.1	30.31	19.03	108.3	0.87	7.68	80.22	5.43	2.34		
			Middle	11:38:09 AM	3.7	28.32	25.22	122	0.8	7.47	55.63	3.76	8.83		
				11:41:46 AM	3.6	28.64	23.74	108	0.71	7.51	55.5	3.77	6.9		
			Bottom	11:37:05 AM	6.8	27.94	26.76	121.3	0.44	7.47	59.93	4.05	28.29	3.97	
				11:40:41 AM	7	27.91	26.85	129.9	0.39	7.46	57.59	3.89	34.89		
		Mid-flood	Surface	6:30:14 PM	1.4	29.66	21.44	300.4	0.49	7.66	72.73	4.91	6.6	4.40	21.27
				6:32:52 PM	1.4	29.69	21.23	310	0.54	7.67	70.7	4.78	4.47		
			Middle	6:29:17 PM	4	28.78	23.86	299.1	0.44	7.51	57.92	3.92	11.26		
				6:32:04 PM	3.9	28.87	23.51	307.7	0.43	7.54	58.82	3.98	9.03		
			Bottom	6:28:14 PM	7	27.85	26.51	309.1	0.26	7.43	47.06	3.19	48.98	3.20	
				6:31:08 PM	6.8	27.83	26.58	309.1	0.26	7.46	47.29	3.2	47.26		
2009/08/21	Sunny	Mid-ebb	Surface	1:34:51 PM	1.3	29.85	22.11	117.7	0.81	7.48	85.17	5.72	5.18	5.21	22.23
				1:38:22 PM	1.1	29.6	22.54	120.6	0.92	7.46	73.92	4.97	6.29		
			Middle	1:33:40 PM	4.2	28.99	23.53	113	0.77	7.46	77.6	5.24	11.16		
				1:37:15 PM	3.7	28.95	23.7	114.1	0.85	7.45	72.48	4.89	11.06		
			Bottom	1:32:08 PM	7.3	28.53	25.18	128.7	0.58	7.46	77.14	5.2	43.1	5.04	
				1:36:02 PM	7.1	28.56	25.09	129.5	0.54	7.46	72.4	4.88	56.59		
		Mid-flood	Surface	7:00:00 AM	1	29.22	22.43	308.2	0.8	7.47	73	4.94	5.58	4.81	9.18
				7:03:31 AM	1.3	29.18	22.41	277.6	0.56	7.47	72.37	4.9	5.28		
			Middle	6:58:40 AM	4.2	29.21	22.82	308.3	0.74	7.46	70.66	4.77	7.3		
				7:02:25 AM	4	29.18	22.86	307.6	0.75	7.47	68.65	4.64	7.3		
			Bottom	6:57:18 AM	6.9	29.08	23.42	306.2	0.66	7.46	72.54	4.9	10.25	4.79	
				7:01:14 AM	7.1	28.97	23.89	313.6	0.59	7.48	69.35	4.68	19.37		
2009/08/23	Sunny	Mid-ebb	Surface	2:45:27 PM	1.3	30.35	22.1	113.1	0.79	7.36	88.62	5.9	5.68	5.87	14.45
				2:42:28 PM	1	30.2	21.91	116.8	0.85	7.39	97.83	6.54	5.48		
			Middle	2:41:41 PM	4.2	29.18	23.7	111.1	0.78	7.29	87.55	5.89	7.1		
				2:44:43 PM	4.1	28.98	24.22	113.7	0.69	7.28	76.25	5.13	12.07		
			Bottom	2:40:47 PM	6.8	28.36	25.69	125.2	0.39	7.26	80.61	5.44	31.24	5.26	
				2:43:34 PM	6.7	28.42	25.53	122.1	0.43	7.27	75.34	5.08	25.15		
		Mid-flood	Surface	8:16:09 AM	1.2	29.35	22.77	321.5	0.72	7.37	73.76	4.97	6.19	4.85	12.48
				8:19:27 AM	1.2	29.42	22.75	287	0.68	7.37	70.96	4.78	6.09		
			Middle	8:15:19 AM	3.8	29.11	23.62	315.5	0.68	7.37	72.7	4.9	11.67		
				8:18:45 AM	4	29.11	23.65	303.3	0.69	7.38	70.49	4.75	10.25		
			Bottom	8:14:32 AM	7	29.04	23.85	319.4	0.59	7.36	74.18	5	21.3	4.89	
				8:18:06 AM	7	29.03	23.88	304.3	0.56	7.37	70.99	4.78	19.37		

Annex D5 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAA

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:59:45 PM	1.2	29.68	13.34	120.1	0.59	7.44	110.05	7.77	3.76	6.57	6.14
				5:02:57 PM	1.1	29.67	13.75	126.6	0.66	7.41	102.3	7.21	3.65		
			Middle	4:58:25 PM	6	28.09	21.62	109.3	0.38	7.21	83.31	5.77	4.26		
				5:02:03 PM	5.9	28.04	21.78	110.1	0.37	7.24	79.91	5.54	4.36		
			Bottom	4:57:10 PM	9.9	27.38	24.21	62.1	0.11	7.16	80.36	5.55	10.75	5.40	
				5:00:55 PM	9.8	27.39	24.18	56.4	0.19	7.22	75.74	5.24	10.04		
		Mid-flood	Surface	12:00:28 PM	1.3	28.88	17.43	321.3	0.35	7.36	93.03	6.51	2.94	6.04	7.63
				12:04:10 PM	1.5	28.92	17.21	323.6	0.36	7.37	89.38	6.26	3.05		
			Middle	11:59:03 AM	6.8	27.84	22.36	276.8	0.63	7.3	81.37	5.64	3.86		
				12:03:11 PM	5.9	28.13	21.05	287.8	0.63	7.34	82.55	5.73	3.25		
			Bottom	11:57:48 AM	10	27.31	24.8	283.4	0.38	7.27	79.56	5.49	19.68	5.34	
				12:01:48 PM	10.1	27.3	24.77	295.7	0.3	7.3	75.23	5.19	12.98		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:49:09 PM	1.1	29.34	18.44	292.5	0.06	7.64	95.74	6.61	2.23	5.31	5.55
				6:52:13 PM	1.1	29.26	18.7	240.2	0.25	7.63	92.14	6.36	2.23		
			Middle	6:48:03 PM	6	27.55	23.82	53.6	0.02	7.36	59.42	4.1	6.19		
				6:51:13 PM	5.9	27.71	23.31	231	0.09	7.39	60.52	4.18	4.57		
			Bottom	6:46:59 PM	10	27.25	24.85	105.5	0.28	7.35	60.22	4.16	8.83	4.16	
				6:50:15 PM	10.1	27.22	24.94	107.4	0.14	7.36	60.12	4.15	9.23		
		Mid-flood	Surface	3:22:55 PM	0.9	29.02	18.9	299	0.18	7.6	101.5	7.03	3.76	6.06	6.24
				3:26:06 PM	1	29.4	17.76	309	0.2	7.69	96.16	6.66	3.65		
			Middle	3:21:40 PM	6	28.27	21.27	303.5	0.16	7.46	77.65	5.38	3.86		
				3:25:10 PM	6.1	28.28	21.25	260.8	0.1	7.48	74.78	5.18	3.45		
			Bottom	3:20:14 PM	10	26.89	25.97	356.5	0.46	7.36	69.76	4.81	12.48	4.61	
				3:24:04 PM	9.6	26.82	26.17	62.5	0.2	7.38	63.78	4.4	10.25		
2009/08/01	Sunny	Mid-ebb	Surface	10:33:36 AM	1.1	29.47	16.85	102	0.52	7.6	98.77	6.87	2.84	5.83	5.26
				10:37:13 AM	1.2	29.28	18.11	120.9	0.54	7.54	96.92	6.71	3.05		
			Middle	10:32:13 AM	5.8	27.62	24.35	119.4	0.55	7.36	66.74	4.59	5.99		
				10:36:19 AM	5.8	27.72	24.16	102.2	0.51	7.45	75.11	5.16	5.48		
			Bottom	10:31:12 AM	9.5	26.3	28.39	5.7	0.01	7.27	66.48	4.57	7.91	5.22	
				10:35:20 AM	10	26.38	28.46	354.7	0.09	7.33	85.33	5.86	6.29		
		Mid-flood	Surface	9:28:54 PM	1	29.94	13.62	230.1	0.13	7.52	94.17	6.61	4.16	6.15	7.93
				9:32:26 PM	1.2	29.93	14.72	192.3	0.17	7.59	99.68	6.96	4.16		
			Middle	9:27:41 PM	5.8	28.38	22.3	49.1	0.15	7.48	80.36	5.52	4.16		
				9:31:29 PM	6	28.31	22.58	22.6	0.32	7.48	79.96	5.49	4.26		
			Bottom	9:26:30 PM	10.2	26.82	26.95	30	0.43	7.27	51.94	3.57	16.33	3.70	
				9:30:29 PM	9.8	26.92	26.74	39.2	0.39	7.31	55.74	3.83	14.5		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:21:55 AM	1.2	28.48	22.11	294.2	0.32	7.66	75.44	5.18	2.94	4.29	8.37
				5:25:32 AM	0.8	28.51	21.58	288.8	0.38	7.66	75.87	5.22	2.74		
			Middle	5:20:52 AM	5.9	27.63	26.54	309.5	0.41	7.55	49.82	3.38	8.22		
				5:24:23 AM	5.9	27.61	26.54	290	0.54	7.55	49.73	3.38	8.32		
			Bottom	5:19:34 AM	10.1	26.19	29.58	297.9	0.45	7.49	55.58	3.8	12.98	3.72	
				5:23:11 AM	9.5	26.13	29.71	292	0.59	7.49	53.17	3.64	15		

Annex D5 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:56:30 PM	1.3	28.14	20.2	130.1	0.83	7.46	99.65	6.95	5.18	6.49	11.82
				12:59:45 PM	1.2	28.07	20.35	131.2	0.78	7.45	93.57	6.53	5.18		
			Middle	12:55:27 PM	6.3	27.86	22.35	118.9	0.65	7.43	95.19	6.6	5.07		
				12:58:50 PM	6.2	27.83	22.68	114.9	0.49	7.43	85.14	5.89	6.8		
			Bottom	12:54:10 PM	9.8	27.53	25.76	110.6	0.58	7.43	85.38	5.84	22.41	5.57	
				12:57:38 PM	10	27.51	25.86	120.2	0.48	7.44	77.41	5.29	26.27		
		Mid-flood	Surface	6:56:05 AM	1	27.77	24.3	318.4	0.43	7.54	73.24	5.03	5.48	4.92	7.90
				6:59:08 AM	1.1	27.77	24.4	312	0.44	7.54	71.35	4.89	5.18		
			Middle	6:55:04 AM	6.1	27.73	24.82	309.3	0.51	7.54	72.17	4.94	5.28		
				6:58:16 AM	6.2	27.74	24.96	307	0.53	7.55	70.37	4.81	5.07		
			Bottom	6:53:56 AM	10	27.31	27.33	291.5	0.71	7.56	67.73	4.61	12.68	4.51	
				6:57:08 AM	10.4	27.3	27.35	306	0.18	7.55	64.85	4.41	13.69		
2009/08/08	Cloudy	Mid-ebb	Surface	1:51:28 PM	0.9	29.81	15.94	126.5	0.62	7.5	102.74	7.14	4.16	6.45	14.76
				1:54:11 PM	1.4	29.7	15.81	124.1	0.66	7.5	97.2	6.77	4.77		
			Middle	1:50:42 PM	5.9	28.53	21.99	110.8	0.55	7.46	88.09	6.05	11.87		
				1:53:30 PM	5.7	28.55	21.81	119.2	0.54	7.47	84.87	5.83	8.12		
			Bottom	1:50:01 PM	9.9	28.3	24.21	86.1	0.31	7.47	87.06	5.93	30.73	5.81	
				1:52:32 PM	10.2	28.37	24.13	86	0.31	7.49	83.58	5.68	28.9		
		Mid-flood	Surface	8:02:13 AM	1.1	28.95	17.35	321.9	0.48	7.47	77.92	5.45	4.97	5.14	7.79
				8:04:28 AM	1	28.93	17.86	313.9	0.54	7.47	74.8	5.22	4.97		
			Middle	8:00:59 AM	6	28.52	20.46	296.4	0.85	7.46	71.66	4.96	5.48		
				8:03:48 AM	5.4	28.76	18.86	299.9	0.66	7.46	70.56	4.91	6.09		
			Bottom	8:00:17 AM	10	27.81	24.63	282.5	0.12	7.46	74.98	5.13	13.08	4.90	
				8:03:07 AM	10.2	27.83	24.53	282.5	0.12	7.46	68.13	4.67	12.17		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	3:50:16 PM	1.1	28.93	16.78	99	0.59	7.48	84.26	5.91	3.45	5.19	7.44
				3:53:59 PM	1.4	28.98	17.1	104.7	0.64	7.48	81.16	5.68	3.65		
			Middle	3:49:07 PM	6	28.54	25.37	115.2	0.31	7.52	69.45	4.68	6.8		
				3:52:56 PM	6	28.54	25.34	100.8	0.35	7.54	66.65	4.49	7		
			Bottom	3:48:08 PM	9.9	28.41	26	69.8	0.26	7.51	70.25	4.73	11.77	4.59	
				3:51:56 PM	10	28.41	26	87.3	0.21	7.53	65.95	4.44	11.97		
		Mid-flood	Surface	11:15:00 AM	1.1	28.86	23.09	322.1	0.39	7.47	74.01	5.02	4.36	4.76	7.46
				11:18:01 AM	1.1	28.8	23.41	322.1	0.39	7.48	71.65	4.86	4.26		
			Middle	11:13:44 AM	5.5	28.47	25.26	279.9	0.26	7.46	68.77	4.64	5.07		
				11:16:55 AM	6	28.44	25.35	289.1	0.83	7.48	67.15	4.53	5.18		
			Bottom	11:12:47 AM	9.9	28.09	27.43	325.7	0.05	7.46	70.34	4.72	12.88	4.55	
				11:16:00 AM	10.1	28.09	27.42	345	0.11	7.47	65.11	4.37	12.98		
2009/08/14	Cloudy	Mid-ebb	Surface	5:28:22 PM	1.3	29.21	17.4	172	0.14	7.34	88.77	6.18	3.35	5.26	6.28
				5:31:05 PM	1.4	29.16	17.41	172	0.14	7.34	85.58	5.96	3.45		
			Middle	5:27:10 PM	6.1	28.04	25.37	122.9	0.11	7.27	65.39	4.44	6.8		
				5:30:14 PM	5.9	28.1	24.81	79.7	0.12	7.28	65.65	4.47	5.89		
			Bottom	5:26:11 PM	10.1	27.88	26.76	41.8	0.15	7.25	62.53	4.23	10.04	4.22	
				5:29:19 PM	10	27.91	26.24	58.2	0.17	7.27	61.97	4.2	8.12		
		Mid-flood	Surface	1:44:16 PM	0.9	28.59	19.81	308.8	0.46	7.44	87.67	6.09	3.45	5.47	6.29
				1:47:29 PM	1.2	28.58	19.79	308.8	0.46	7.44	83.7	5.81	3.55		
			Middle	1:43:06 PM	6	28.21	24.41	295.6	0.47	7.42	73.4	5	3.96		
				1:46:26 PM	6.2	28.17	23.65	292.6	0.48	7.42	72.68	4.97	3.65		
			Bottom	1:42:07 PM	10	27.86	27.37	293.6	0.4	7.41	71.04	4.79	11.77	4.59	
				1:45:24 PM	9.8	27.86	27.33	2	0.17	7.41	65.2	4.39	11.36		

Annex D5 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	9:57:30 AM	1.2	29.02	18.71	128	0.59	7.4	92.46	6.41	3.45	5.85	12.05
				9:53:07 AM	1.2	29.61	14.44	128	0.59	7.44	107.94	7.59	3.96		
			Middle	9:51:56 AM	5.9	27.84	27.6	105.3	0.47	7.31	73.22	4.93	12.27		
				9:58:26 AM	6	27.88	27.35	112.2	0.48	7.33	66.09	4.45	9.23		
			Bottom	9:50:55 AM	10	27.72	28.09	88.7	0.39	7.31	80.9	5.44	21.91	5.05	
				9:55:25 AM	9.8	27.64	28.2	97.8	0.09	7.32	69.16	4.65	21.5		
		Mid-flood	Surface	8:52:29 PM	1.3	30.32	15.41	96.1	0.08	7.47	93.3	6.45	3.76	5.14	6.23
				8:55:22 PM	1.2	30.13	14.28	96.1	0.08	7.41	90.55	6.31	3.96		
			Middle	8:51:34 PM	6.1	28.27	24.15	194.1	0.14	7.24	56.85	3.87	3.96		
				8:54:35 PM	6.2	28.17	24.56	191.9	0.08	7.25	57.48	3.91	3.96		
			Bottom	8:50:39 PM	10.3	27.35	27.94	34.7	0.1	7.17	47.15	3.19	11.67	3.26	
				8:53:33 PM	10.1	27.5	27.44	30.1	0.16	7.19	48.93	3.32	10.04		
2009/08/18	Cloudy	Mid-ebb	Surface	12:11:39 PM	1.4	28.93	23.54	125.7	0.78	7.46	72.43	4.9	5.38	4.32	17.75
				12:15:15 PM	1.2	29.15	23.24	125.7	0.78	7.49	77.06	5.2	5.48		
			Middle	12:10:21 PM	5.9	27.7	27.46	115.4	0.58	7.37	53.09	3.58	17.24		
				12:14:02 PM	6.1	27.67	27.45	105	0.54	7.37	53.17	3.59	19.98		
			Bottom	12:09:14 PM	9.7	27.63	27.87	103.2	0.2	7.39	57.24	3.86	28.8	3.84	
				12:12:53 PM	10.1	27.63	27.83	76.7	0.24	7.39	56.69	3.82	29.61		
		Mid-flood	Surface	5:51:22 PM	1.1	28.93	23.11	316	0.65	7.51	61.64	4.18	7.1	4.18	14.02
				5:55:18 PM	1.3	29.06	22.7	313.1	0.52	7.54	68.53	4.64	6.39		
			Middle	5:50:12 PM	5.7	28.53	24.55	295.6	0.96	7.47	55.97	3.79	7.41		
				5:54:10 PM	6.2	28.62	24.43	284.3	0.96	7.49	60.72	4.11	6.6		
			Bottom	5:49:11 PM	10.2	27.33	27.83	295.7	0.72	7.37	43.77	2.97	26.98	3.15	
				5:53:01 PM	10.1	27.39	27.69	295.7	0.72	7.38	49.1	3.33	29.61		
2009/08/21	Sunny	Mid-ebb	Surface	1:01:57 PM	1.2	29.74	21.77	110.8	0.91	7.47	87.03	5.86	5.28	5.39	29.28
				1:08:08 PM	1.4	29.54	22.14	114.9	0.91	7.46	83.38	5.62	5.78		
			Middle	1:00:21 PM	6.2	28.51	24.97	112.6	0.65	7.43	74.8	5.05	32.05		
				1:06:57 PM	6.1	28.47	25.08	116.1	0.65	7.43	74.48	5.03	41.78		
			Bottom	12:59:08 PM	9.6	28.29	25.63	127.1	0.53	7.43	77.18	5.21	39.85	5.24	
				1:05:34 PM	10.2	28.14	25.95	121.8	0.52	7.43	78.04	5.27	50.91		
		Mid-flood	Surface	7:30:11 AM	1.4	29.14	22.27	330.4	0.19	7.43	75.68	5.13	5.58	5.03	11.66
				7:33:26 AM	1.2	29.15	22.18	330.4	0.19	7.43	73.2	4.97	5.78		
			Middle	7:29:05 AM	6.1	28.94	23.17	293.8	1	7.44	75.79	5.13	7.2		
				7:32:30 AM	6.2	28.83	23.91	297.3	0.85	7.45	72.33	4.89	8.62		
			Bottom	7:27:38 AM	9.8	27.75	26.99	316.9	0.3	7.43	74.83	5.06	22.31	4.92	
				7:31:23 AM	9.5	27.79	26.89	294.1	0.45	7.44	70.49	4.77	20.49		
2009/08/23	Sunny	Mid-ebb	Surface	2:09:47 PM	1.2	30.18	22.39	106.6	1.02	7.3	87.25	5.81	5.07	5.27	52.19
				2:12:39 PM	0.8	30.22	22.74	106.6	1.02	7.32	84.11	5.59	6.29		
			Middle	2:08:51 PM	6	28.53	25.16	104.9	0.68	7.22	73	4.92	36.31		
				2:11:46 PM	5.4	28.64	24.84	93	0.61	7.23	70.56	4.76	22.41		
			Bottom	2:07:51 PM	9.6	28.43	25.44	81.5	0.59	7.21	74.79	5.04	128.98	4.91	
				2:11:02 PM	9.9	28.46	25.36	91.4	0.55	7.23	70.88	4.78	114.08		
		Mid-flood	Surface	8:42:04 AM	1.4	29.16	23.89	293.1	1.19	7.39	77.05	5.18	6.39	4.93	26.10
				8:45:59 AM	1.5	29.35	23.41	306.7	0.52	7.39	74.17	4.98	5.89		
			Middle	8:41:14 AM	6.2	28.2	26.13	288	1	7.37	71.95	4.85	19.57		
				8:45:13 AM	5.7	28.78	24.56	310.5	0.56	7.37	70.03	4.72	13.49		
			Bottom	8:39:57 AM	9.3	28.04	26.48	302.8	0.79	7.37	74.4	5.02	54.66	4.84	
				8:44:29 AM	10.2	28.03	26.5	289	0.48	7.36	69.08	4.66	56.59		

Annex D6 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAB

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:34:54 PM	1	30.21	11.51	128.1	0.63	7.62	94.52	6.68	4.01	5.23	5.27
				6:37:18 PM	0.9	30.18	11.32	87.5	0.64	7.63	81.46	5.77	4.21		
			Middle	6:34:12 PM	4.7	28.3	20.58	109.3	0.5	7.36	64.07	4.45	3.21		
				6:36:34 PM	4.6	28.27	20.69	89.5	0.6	7.37	57.93	4.02	6.02		
			Bottom	6:33:22 PM	9	27.37	24.4	95.2	0.42	7.35	57.32	3.96	7.22	4.01	
				6:35:50 PM	9.2	27.53	24.28	83	0.25	7.37	58.76	4.05	6.92		
		Mid-flood	Surface	10:23:12 AM	0.7	28.94	16.79	218.1	0.24	7.34	73.67	5.17	4.41	4.64	6.63
				10:27:45 AM	0.7	28.62	18.63	299.8	0.3	7.34	68.97	4.82	5.21		
			Middle	10:22:14 AM	4.6	28.32	20.34	254.8	0.26	7.3	61.54	4.28	5.51		
				10:26:38 AM	4.7	28.26	20.64	301.2	0.26	7.31	61.45	4.27	6.02		
			Bottom	10:21:17 AM	8.7	27.91	22.15	294	0.45	7.3	60.23	4.17	9.22	4.10	
				10:25:45 AM	8.4	27.62	23.17	294	0.45	7.33	58.24	4.03	9.42		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:52:55 PM	1.2	29.06	17.84	140	0.05	7.71	87.75	6.11	2.51	4.97	5.38
				9:01:22 PM	1.2	29.14	16.97	348.7	0.03	7.75	92.01	6.43	2.31		
			Middle	8:51:59 PM	5.9	27.45	23.85	151.7	0.14	7.51	55.84	3.86	5.61		
				9:00:40 PM	5.8	27.54	23.57	165	0.07	7.51	49.98	3.46	6.12		
			Bottom	8:51:22 PM	9	26.98	25.54	137.7	0.09	7.46	46.67	3.22	9.02	3.27	
				9:00:06 PM	9	27.04	25.32	90	0.03	7.48	48.04	3.32	6.72		
		Mid-flood	Surface	2:15:39 PM	0.8	29.69	15.24	302.2	0.41	7.57	94.72	6.62	3.21	6.08	3.08
				2:20:53 PM	0.9	29.71	15.57	326.7	0.29	7.59	94.5	6.59	2.81		
			Middle	2:14:42 PM	5.5	28.37	20.79	274.3	0.43	7.43	80.68	5.59	2.71		
				2:19:50 PM	5.5	28.66	19.35	301.1	0.45	7.47	79.47	5.52	2.71		
			Bottom	2:13:31 PM	8.8	27.81	22.75	336.8	0.16	7.35	62.26	4.31	3.41	4.27	
				2:18:57 PM	8.8	27.79	22.81	310.6	0.21	7.36	60.95	4.22	3.61		
2009/08/01	Sunny	Mid-ebb	Surface	8:34:58 AM	1	29.22	16.52	100.9	0.42	7.84	83.96	5.87	5.41	5.07	7.33
				8:37:03 AM	1.2	29.28	16.27	100.9	0.42	7.82	82.39	5.76	5.61		
			Middle	8:34:22 AM	5.7	27.87	23.33	87.6	0.36	7.72	63.54	4.38	5.91		
				8:36:28 AM	5.7	27.84	23.54	87.6	0.36	7.7	61.86	4.26	6.32		
			Bottom	8:33:34 AM	10	25.86	29.24	124.2	0.26	7.56	42.72	2.95	11.93	2.96	
				8:35:40 AM	10	26.17	28.23	124.1	0.23	7.55	42.95	2.96	8.82		
		Mid-flood	Surface	11:43:38 PM	1	29.73	14.42	101.7	0.2	7.66	92.07	6.46	3.11	5.45	5.48
				11:47:35 PM	0.9	29.54	15.21	71.4	0.54	7.6	85	5.96	2.91		
			Middle	11:42:32 PM	6	27.7	24.15	99.5	0.13	7.58	67.88	4.67	6.32		
				11:46:42 PM	6.1	27.71	24.14	148.5	0.15	7.59	68.51	4.71	5.71		
			Bottom	11:41:29 PM	8.7	27.3	25.46	72.5	0.12	7.56	63.12	4.34	7.02	4.31	
				11:45:34 PM	8.9	27.27	25.54	66	0.11	7.56	62.13	4.27	7.82		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	3:48:22 AM	0.9	28.4	21.77	19.4	0.06	7.53	82.72	5.7	2.11	4.46	6.25
				3:53:46 AM	1	28.38	22.13	19.4	0.06	7.54	79.54	5.47	2.11		
			Middle	3:47:25 AM	5.8	27.7	26.24	320.8	0.18	7.39	49.63	3.37	10.02		
				3:52:39 AM	5.9	27.7	26.37	336.5	0.23	7.42	48.24	3.28	11.63		
			Bottom	3:46:28 AM	9.8	26.17	29.17	282.6	0.34	7.32	51.83	3.56	6.42	3.99	
				3:51:43 AM	10	26.18	29.19	273	0.35	7.38	64.48	4.42	5.21		

Annex D6 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	3:09:52 PM	1	28.25	19.14	109.1	0.97	7.5	81.8	5.73	5.21	5.13	14.35
				3:14:04 PM	1	28.26	18.19	109.1	0.69	7.51	81.66	5.75	6.72		
			Middle	3:09:05 PM	5	27.69	23.34	114.2	0.57	7.49	65.23	4.51	16.44		
				3:13:18 PM	5	27.68	23.3	113.4	0.49	7.5	65.72	4.54	16.84		
			Bottom	3:08:17 PM	9	27.68	23.38	116.6	0.43	7.49	65.87	4.55	20.94	4.56	
				3:12:30 PM	8.9	27.68	23.37	124.7	0.46	7.5	66.14	4.57	19.94		
		Mid-flood	Surface	5:22:52 AM	1.1	27.91	18.91	135	0.15	7.1	81.95	5.78	7.22	5.31	8.47
				5:25:37 AM	1	27.9	18.8	135	0.15	7.11	81.35	5.74	8.22		
			Middle	5:21:56 AM	5	27.7	23.87	134.4	0.06	7.1	70.04	4.82	6.82		
				5:24:52 AM	4.9	27.71	23.18	317.4	0.05	7.11	70.55	4.88	7.02		
			Bottom	5:21:00 AM	9.8	27.44	25.94	266.5	0.26	7.1	64.54	4.41	11.73	4.42	
				5:23:59 AM	9.9	27.44	25.97	283.5	0.26	7.11	64.64	4.42	9.82		
2009/08/08	Cloudy	Mid-ebb	Surface	4:47:52 PM	1.1	30.13	14.35	124.5	0.77	7.61	91.9	6.41	3.46	5.69	13.05
				4:53:22 PM	1.1	29.72	15.92	121.4	0.74	7.58	87.12	6.06	4.57		
			Middle	4:46:54 PM	5.1	28.22	23.03	105.8	0.48	7.52	74.88	5.14	14.2		
				4:52:36 PM	4.9	28.22	22.82	101.9	0.41	7.52	75.12	5.16	12.58		
			Bottom	4:45:51 PM	7.9	28.17	23.63	95.5	0.33	7.52	77.36	5.29	22.92	5.32	
				4:51:42 PM	8.1	28.17	23.64	75.9	0.32	7.54	77.98	5.34	20.59		
		Mid-flood	Surface	6:35:59 AM	1	28.91	16.37	265.9	0.24	7.34	76.76	5.4	6.29	4.92	12.24
				6:42:56 AM	1.1	28.82	18.09	294.8	0.25	7.37	74.17	5.18	6.5		
			Middle	6:34:44 AM	6	28.42	22.51	294.1	0.47	7.39	66.15	4.54	11.57		
				6:41:45 AM	6	28.47	22.05	290.4	0.47	7.42	66.56	4.57	10.15		
			Bottom	6:33:38 AM	9.8	27.44	26.07	280.3	0.56	7.32	56.74	3.88	20.39	3.89	
				6:40:49 AM	9.8	27.46	25.92	282.8	0.58	7.35	57.05	3.9	18.56		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:33:21 PM	1.1	28.94	21.34	116	0.46	7.56	69.1	4.73	3.76	4.49	11.23
				5:38:27 PM	1.3	29.1	18.57	99.1	0.72	7.52	72.2	5	3.86		
			Middle	5:32:43 PM	5.1	28.35	26.68	114.2	0.42	7.59	61.94	4.15	8.32		
				5:37:45 PM	5.2	28.49	26.35	106.5	0.38	7.6	60.73	4.07	7.71		
			Bottom	5:31:51 PM	7.9	28.38	27.15	115.9	0.26	7.58	60.08	4.02	24.45	3.96	
				5:36:54 PM	8.2	28.37	27.14	96.5	0.3	7.59	58.08	3.89	19.27		
		Mid-flood	Surface	9:38:46 AM	0.8	29.08	22.11	262.7	0.27	7.58	74.75	5.08	4.57	4.75	6.48
				9:41:19 AM	1	29.1	21.54	262.7	0.27	7.56	76.58	5.22	4.47		
			Middle	9:38:01 AM	5.7	28.71	24.98	289.7	0.41	7.61	65.02	4.38	5.48		
				9:40:36 AM	5.7	28.71	25.19	289.7	0.41	7.6	64.01	4.3	5.99		
			Bottom	9:37:17 AM	8.4	28.62	26.28	292.5	0.38	7.65	65.82	4.41	9.44	4.41	
				9:39:55 AM	8.8	28.6	26.5	289.2	0.44	7.63	65.98	4.41	8.93		
2009/08/14	Cloudy	Mid-ebb	Surface	7:11:16 PM	1.2	29.32	17.9	106.8	0.21	7.49	70.06	4.85	4.06	4.28	7.82
				7:13:37 PM	1.3	29.24	18.71	103.9	0.49	7.48	67.67	4.67	4.27		
			Middle	7:10:33 PM	6	28.22	25.18	106.3	0.25	7.5	55.12	3.74	9.34		
				7:13:04 PM	5.9	28.16	25	112.3	0.28	7.5	56.59	3.84	7.71		
			Bottom	7:09:49 PM	9	28	26.49	117.4	0.16	7.49	51.46	3.48	10.96	3.51	
				7:12:12 PM	9.1	28	26.52	123.7	0.22	7.48	52.24	3.53	10.55		
		Mid-flood	Surface	12:17:47 PM	1.4	28.53	20.99	325.4	0.21	7.54	78.44	5.41	4.37	5.22	8.51
				12:20:21 PM	1.2	28.56	20.89	325.4	0.21	7.54	74.9	5.17	4.77		
			Middle	12:17:13 PM	5.9	28.3	24.06	282.2	0.35	7.56	77.88	5.31	4.77		
				12:19:37 PM	5.8	28.26	24.4	302.5	0.14	7.56	73.56	5	4.57		
			Bottom	12:16:16 PM	9.2	28.07	26.75	287	0.34	7.56	70.47	4.75	17.04	4.55	
				12:18:52 PM	9	28.06	26.83	287	0.34	7.56	64.49	4.34	15.52		

Annex D6 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:02:22 AM	1.1	29.31	13.25	123.8	0.49	7.78	96.61	6.87	3.15	5.43	16.94
				8:06:51 AM	1	29.3	13.31	108.2	0.46	7.8	92.45	6.57	3.35		
			Middle	8:01:16 AM	6.2	28.1	26.29	99.8	0.58	7.66	61.37	4.14	5.79		
				8:06:12 AM	6	28.06	26.54	107.7	0.54	7.68	61.38	4.14	4.88		
			Bottom	8:00:29 AM	9.2	27.88	28.35	84	0.33	7.66	55.87	3.74	38.44	3.85	
				8:05:17 AM	9.2	27.87	28.38	106	0.39	7.66	58.94	3.95	46.04		
		Mid-flood	Surface	10:36:32 PM	1.1	29.98	15.95	85.6	0.07	7.66	79.65	5.52	4.17	4.63	6.35
				10:38:42 PM	1.1	30	15.66	100	0.36	7.67	85.97	5.96	3.96		
			Middle	10:35:55 PM	6	27.91	25.58	30.1	0.1	7.48	49.38	3.36	5.18		
				10:37:59 PM	5.9	28.21	24.32	96.3	0.2	7.49	53.72	3.66	5.59		
			Bottom	10:35:11 PM	9.1	27.62	26.77	71.6	0.06	7.46	45.02	3.06	11.06	3.21	
				10:37:22 PM	9.2	27.67	26.57	7.9	0.17	7.45	49.37	3.35	8.12		
2009/08/18	Cloudy	Mid-ebb	Surface	10:10:11 AM	1	29.07	21.66	123	0.78	7.86	101.88	6.94	3.86	6.06	15.88
				10:15:14 AM	1	28.85	22.29	122.2	0.78	7.89	96.65	6.59	4.67		
			Middle	10:09:26 AM	5	27.79	27.18	107.5	0.57	7.74	79.77	5.39	14.51		
				10:14:32 AM	5.2	27.8	27.12	112	0.63	7.78	78.72	5.32	14		
			Bottom	10:08:27 AM	9	27.75	27.47	58.7	0.42	7.75	87.62	5.91	26.68	5.93	
				10:13:44 AM	9.1	27.75	27.37	99.1	0.4	7.82	87.95	5.94	31.54		
		Mid-flood	Surface	7:51:28 PM	1	29.69	19.63	352.5	0.49	7.79	104.06	7.1	3.76	6.00	10.60
				7:57:21 PM	1	29.77	19.9	292.7	0.29	7.8	106.26	7.23	3.96		
			Middle	7:50:44 PM	6	28.32	25.01	292.1	0.32	7.63	69.23	4.69	11.16		
				7:56:29 PM	6	28.35	25.04	293.4	0.28	7.64	73.38	4.97	12.18		
			Bottom	7:49:53 PM	8.9	27.57	27.15	277.9	0.35	7.56	59.68	4.05	17.14	4.34	
				7:55:47 PM	9	27.56	27.21	285.5	0.35	7.6	68.1	4.62	15.42		
2009/08/21	Sunny	Mid-ebb	Surface	3:06:45 PM	0.9	30.59	19.53	125.2	1.25	7.73	102.61	6.9	10.24	6.38	19.35
				3:14:02 PM	1.1	30.13	20.23	111.7	0.83	7.73	98.92	6.68	7.83		
			Middle	3:05:58 PM	6.1	28.65	23.96	116.6	0.78	7.71	88.74	6.01	21.09		
				3:13:08 PM	6.1	28.68	23.87	116	0.77	7.71	87.59	5.93	19.98		
			Bottom	3:05:08 PM	8.9	28.6	24.15	138	0.74	7.73	92.44	6.26	29.92	6.27	
				3:12:22 PM	8.8	28.61	24.12	106.9	0.61	7.72	92.64	6.28	27.01		
		Mid-flood	Surface	5:40:00 AM	1	29.43	20.21	239.4	0.29	7.39	64.15	4.38	8.64	4.34	14.46
				5:44:25 AM	1	29.3	19.86	300.3	0.19	7.41	65.12	4.46	8.23		
			Middle	5:39:15 AM	6.2	28.8	23.92	296.1	0.4	7.46	62.29	4.21	15.76		
				5:43:40 AM	5.9	28.85	23.77	291.4	0.4	7.49	63.47	4.29	11.75		
			Bottom	5:38:34 AM	9	27.42	27.39	344.3	0.61	7.45	55.01	3.73	26.11	3.88	
				5:42:48 AM	8.9	27.71	26.71	289.7	0.54	7.49	59.26	4.02	16.27		
2009/08/23	Sunny	Mid-ebb	Surface	4:14:41 PM	1	29.92	22.09	126.8	1.02	7.33	74.17	4.97	8.74	4.72	19.98
				4:21:34 PM	1	30.16	21.91	86.4	0.88	7.33	74.7	4.99	14.86		
			Middle	4:13:50 PM	6	29	23.33	119.1	0.87	7.31	67.52	4.56	11.85		
				4:20:29 PM	6	28.73	24.03	117	0.76	7.33	64.61	4.37	23.29		
			Bottom	4:13:01 PM	9.1	28.44	24.79	76.2	0.27	7.34	68.73	4.65	27.71	4.65	
				4:19:40 PM	9	28.43	24.84	98.6	0.64	7.35	68.64	4.65	33.44		
		Mid-flood	Surface	7:24:21 AM	1	29.37	20.29	292.1	0.62	7.41	68.62	4.69	9.14	4.54	35.07
				7:31:28 AM	1	29.37	20.48	305.6	0.69	7.42	70.32	4.8	9.84		
			Middle	7:23:31 AM	6	28.75	24.01	296.1	0.7	7.45	62.41	4.22	15.97		
				7:30:47 AM	5.9	28.9	23.62	297.2	0.69	7.46	65.87	4.45	17.67		
			Bottom	7:22:32 AM	9.1	27.52	26.95	281.9	0.68	7.46	58.15	3.95	78.82	4.09	
				7:29:45 AM	9.1	27.45	27.1	282.5	0.01	7.48	62.31	4.23	79		

Annex D7 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAC

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:26:18 PM	0.9	30.23	11.36	123.7	0.57	7.61	81.64	5.78	3.91	5.49	8.15
				6:28:44 PM	0.9	30.19	11.4	123.7	0.57	7.61	94.51	6.69	4.01		
			Middle	6:25:27 PM	3.8	28.57	19.1	126.8	0.55	7.34	70.34	4.9	3.11		
				6:28:02 PM	3.7	28.46	19.6	126.8	0.55	7.35	65.83	4.58	3.11		
			Bottom	6:24:38 PM	7.9	27.42	23.98	94.7	0.4	7.32	65	4.5	18.14	4.16	
				6:27:14 PM	7.8	27.43	23.95	98.7	0.42	7.33	55.16	3.82	16.64		
		Mid-flood	Surface	10:38:25 AM	0.9	28.63	18.66	298.6	0.19	7.36	67.31	4.7	4.61	4.57	6.50
				10:41:01 AM	1	28.59	18.77	298.6	0.19	7.37	66.21	4.62	4.91		
			Middle	10:37:33 AM	3.7	28.5	19.22	307.2	0.24	7.35	65.1	4.54	5.11		
				10:40:12 AM	3.8	28.43	19.75	292	0.23	7.36	63.4	4.41	4.81		
			Bottom	10:36:33 AM	6.9	28.07	21.55	276.8	0.26	7.34	63.79	4.42	13.53	4.37	
				10:39:22 AM	6.6	28.32	20.39	276.5	0.33	7.36	61.99	4.31	6.02		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:43:40 PM	1.1	29.33	16.2	302.8	0.04	7.75	95.4	6.67	2.71	5.38	4.35
				8:46:13 PM	1.1	29.33	15.87	302.8	0.04	7.74	94.51	6.62	2.51		
			Middle	8:43:01 PM	4.9	27.59	23.47	227.7	0.07	7.52	58.94	4.08	4.11		
				8:45:25 PM	4.8	27.91	22.21	256.2	0.16	7.53	59.57	4.13	3.91		
			Bottom	8:42:13 PM	7.1	27.44	24.06	166	0.08	7.46	52.02	3.59	6.32	3.56	
				8:44:43 PM	7.1	27.44	24.05	166	0.08	7.47	51.11	3.53	6.52		
		Mid-flood	Surface	2:28:45 PM	0.9	29.83	14.58	46.4	0.12	7.59	96.06	6.72	3.21	6.17	2.88
				2:33:16 PM	0.8	29.78	14.74	46.4	0.12	7.59	95.35	6.67	3.21		
			Middle	2:27:53 PM	4.7	28.81	18.74	312	0.05	7.52	82.62	5.75	2.71		
				2:32:30 PM	4.6	28.6	19.75	312	0.05	7.5	79.92	5.55	2.51		
			Bottom	2:26:55 PM	6.7	28.04	21.88	345.7	0.22	7.4	66.4	4.6	2.61	4.45	
				2:31:14 PM	6.7	27.98	21.85	345.7	0.22	7.38	61.91	4.29	3.01		
2009/08/01	Sunny	Mid-ebb	Surface	8:43:22 AM	1.2	29.23	16.04	94.9	0.41	7.84	81.11	5.69	2.21	4.73	5.62
				8:45:25 AM	1.1	29.3	15.23	94.9	0.41	7.84	81.26	5.72	2.71		
			Middle	8:42:35 AM	4.8	27.73	23.73	96.4	0.35	7.77	53.25	3.67	6.12		
				8:44:52 AM	4.8	27.76	23.67	97	0.3	7.81	55.52	3.82	4.51		
			Bottom	8:42:00 AM	8	27.23	24.96	100.1	0.32	7.55	44.74	3.09	10.32	3.18	
				8:44:17 AM	7.9	27.41	24.43	93.5	0.33	7.62	47.2	3.26	7.82		
		Mid-flood	Surface	11:33:01 PM	1.1	29.66	14.36	124.8	0.16	7.65	90.6	6.36	3.31	5.87	4.38
				11:37:23 PM	1	29.46	15.83	124.8	0.16	7.61	84.55	5.91	2.81		
			Middle	11:32:02 PM	5	28.26	22.49	103.1	0.06	7.63	80.08	5.51	3.11		
				11:36:35 PM	5	28.29	22.45	86.3	0.12	7.64	82.93	5.7	3.31		
			Bottom	11:30:54 PM	7	27.55	24.64	96.3	0.17	7.56	67.13	4.62	6.72	4.69	
				11:35:41 PM	7	27.7	24.15	98	0.19	7.57	69.17	4.76	7.02		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	3:59:50 AM	0.9	28.49	21.23	310	0.04	7.53	79.17	5.46	2.01	4.46	6.83
				4:04:02 AM	1	28.48	21.13	310	0.04	7.53	79.69	5.5	1.91		
			Middle	3:59:00 AM	5	27.7	26.28	330	0.17	7.42	49.77	3.38	8.72		
				4:03:01 AM	4.9	27.71	25.95	357.7	0.18	7.43	51.28	3.49	7.12		
			Bottom	3:58:04 AM	8.1	26.94	27.8	331.2	0.23	7.37	49.36	3.37	10.92	3.40	
				4:02:00 AM	8.1	26.57	28.29	328.7	0.24	7.39	49.88	3.42	10.32		

Annex D7 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:59:41 PM	1	27.92	20.48	159.2	0.82	7.47	72.71	5.09	6.62	4.93	17.51
				3:03:24 PM	1	27.97	20.36	109.1	0.97	7.49	73.86	5.16	7.72		
			Middle	2:58:56 PM	4	27.74	22.41	129.8	0.65	7.48	69.15	4.8	14.63		
				3:02:41 PM	4	27.71	22.84	129.4	0.67	7.49	67.42	4.67	13.43		
			Bottom	2:58:15 PM	7	27.69	22.95	122.2	0.47	7.48	69.13	4.79	39.48	4.75	
				3:01:52 PM	7.1	27.69	23.01	122.2	0.47	7.49	67.83	4.7	23.15		
		Mid-flood	Surface	5:32:50 AM	1	27.89	18.8	146.8	0.13	7.13	81.96	5.79	7.72	5.65	7.50
				5:36:35 AM	1.1	27.95	18.59	146.8	0.13	7.14	80.16	5.66	8.02		
			Middle	5:31:54 AM	4	27.92	18.91	183.5	0.11	7.13	80.66	5.69	7.72		
				5:35:48 AM	3.9	27.98	19.54	246.4	0.1	7.14	77.76	5.46	7.42		
			Bottom	5:30:44 AM	8	27.63	24.4	294.7	0.13	7.13	67.05	4.61	7.12	4.56	
				5:34:58 AM	8.1	27.6	24.52	283	0.27	7.14	65.65	4.51	7		
2009/08/08	Cloudy	Mid-ebb	Surface	4:25:38 PM	1.1	29.71	15.62	137.8	0.78	7.54	94.11	6.56	3.96	6.00	12.97
				4:31:37 PM	1	29.69	15.63	134.3	0.71	7.56	91.25	6.36	4.98		
			Middle	4:24:47 PM	4.9	28.26	23.11	99.2	0.33	7.46	82.09	5.63	14		
				4:30:46 PM	5	28.26	23.06	110.3	0.34	7.5	79.15	5.43	14.61		
			Bottom	4:23:47 PM	7	28.24	23.79	109.6	0.39	7.47	85.97	5.87	20.09	5.77	
				4:29:47 PM	6.8	28.24	23.64	67.5	0.39	7.5	82.93	5.67	20.19		
		Mid-flood	Surface	6:51:30 AM	1.1	28.85	17.78	271.9	0.18	7.39	73.78	5.16	6.09	5.05	12.74
				6:54:22 AM	1	28.85	14.96	280.4	0.22	7.39	79.39	5.64	5.59		
			Middle	6:50:28 AM	4.9	28.53	21.24	303	0.38	7.42	67.77	4.67	9.54		
				6:53:39 AM	5	28.59	20.65	312.6	0.34	7.42	68.48	4.73	8.63		
			Bottom	6:49:34 AM	7.9	27.68	24.9	282.5	0.31	7.38	58.76	4.03	24.04	4.03	
				6:52:41 AM	7.8	27.71	24.76	303.9	0.38	7.38	58.87	4.03	22.52		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:22:15 PM	1.1	29.03	18.37	125.7	0.51	7.52	73.99	5.14	4.57	4.58	16.57
				5:26:38 PM	1.4	29.04	18.12	108.7	0.41	7.52	73.27	5.09	4.57		
			Middle	5:21:21 PM	5	28.52	26.66	111.8	0.33	7.6	61.12	4.09	21.2		
				5:25:54 PM	5	28.51	26.7	116.2	0.28	7.59	59.82	4	19.58		
			Bottom	5:20:25 PM	7	28.53	26.7	97.1	0.31	7.63	64.57	4.32	24.04	4.27	
				5:25:05 PM	7.1	28.52	26.76	97.1	0.31	7.62	63.16	4.22	25.46		
		Mid-flood	Surface	9:48:39 AM	1	29.04	19.83	250.2	0.32	7.56	78.13	5.38	4.37	4.91	5.33
				9:51:11 AM	1	29.04	19.92	250.2	0.32	7.55	77.01	5.3	3.96		
			Middle	9:47:56 AM	4.8	28.76	24.68	292.9	0.39	7.6	67.34	4.54	5.48		
				9:50:24 AM	4.7	28.76	24.61	284.1	0.41	7.59	65.24	4.4	5.08		
			Bottom	9:47:15 AM	7	28.68	25.37	300.7	0.36	7.62	67.74	4.55	6.9	4.47	
				9:49:42 AM	6.7	28.73	25.01	287.3	0.42	7.6	65.06	4.38	6.19		
2009/08/14	Cloudy	Mid-ebb	Surface	7:01:54 PM	1.3	29.68	15.16	121.6	0.18	7.51	78.91	5.52	3.86	5.09	4.94
				7:04:30 PM	1.2	29.62	14.86	113.9	0.27	7.52	78.4	5.5	3.86		
			Middle	7:01:12 PM	3	28.51	20.86	121.4	0.15	7.51	70.99	4.91	3.56		
				7:03:52 PM	3.9	28.22	23.82	138.8	0.11	7.5	64.55	4.41	4.06		
			Bottom	7:00:24 PM	5	28.15	24.38	108.2	0.15	7.48	61.29	4.18	6.4	4.09	
				7:02:54 PM	5.9	28.16	24.91	120.5	0.24	7.48	58.81	4	7.92		
		Mid-flood	Surface	12:27:15 PM	1.2	28.54	21.24	344.3	0.13	7.55	77.99	5.38	4.27	5.13	4.45
				12:29:37 PM	1.3	28.58	20.98	344.3	0.13	7.55	76.13	5.25	4.27		
			Middle	12:26:34 PM	5	28.34	23.52	278	0.14	7.56	74.81	5.11	4.47		
				12:28:56 PM	4.9	28.37	23.2	302.9	0.19	7.55	70.04	4.79	4.67		
			Bottom	12:25:46 PM	7	28.34	24.27	280.6	0.15	7.57	76.02	5.17	4.57	4.96	
				12:28:18 PM	6.8	28.34	24.27	311.4	0.14	7.56	69.77	4.74	4.47		

Annex D7 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:15:51 AM	1.1	29.39	12.71	126.9	0.48	7.82	95.25	6.78	3.25	5.42	7.11
				8:20:09 AM	1.1	29.43	13.24	121.9	0.49	7.81	92.29	6.55	3.46		
			Middle	8:15:02 AM	5.1	28.15	25.77	98.8	0.5	7.66	59.65	4.04	4.37		
				8:19:34 AM	5.1	28.12	26.15	113.5	0.47	7.68	63.69	4.3	4.98		
			Bottom	8:14:07 AM	7	27.81	28.73	87.1	0.37	7.68	60.45	4.05	14.2	4.16	
				8:18:56 AM	7	27.85	28.25	90	0.4	7.68	63.51	4.26	12.38		
		Mid-flood	Surface	10:26:42 PM	1	30.07	14.76	117.3	0.19	7.74	91.98	6.4	3.66	5.60	4.71
				10:29:57 PM	1.1	30.02	14.78	117.3	0.19	7.75	94.43	6.58	3.56		
			Middle	10:26:09 PM	5.1	28.83	21.86	104.5	0.15	7.56	66.04	4.51	3.56		
				10:29:16 PM	5	29.31	18.07	64	0.1	7.61	70.68	4.89	3.66		
			Bottom	10:25:26 PM	7.1	27.97	25.64	83.1	0.32	7.46	47.82	3.25	7.31	3.43	
				10:28:41 PM	7	28.07	25.29	18.1	0.1	7.47	52.96	3.6	6.5		
2009/08/18	Cloudy	Mid-ebb	Surface	10:23:33 AM	1	29.37	20.79	122.2	0.78	7.99	107.92	7.35	3.15	6.38	10.98
				10:28:51 AM	1	29.13	21.6	136.6	0.73	7.99	103.49	7.05	3.46		
			Middle	10:22:41 AM	5	27.85	26.82	107.7	0.58	7.86	82.69	5.59	12.68		
				10:27:59 AM	5.1	27.78	27.16	105.2	0.51	7.89	81.63	5.51	12.99		
			Bottom	10:21:52 AM	7.3	27.67	27.71	89.4	0.49	7.84	81.51	5.5	16.43	5.56	
				10:27:12 AM	7.2	27.66	27.76	80.2	0.47	7.88	83.13	5.61	17.14		
		Mid-flood	Surface	7:40:06 PM	1.1	29.84	17.27	329.1	0.47	7.59	94.6	6.52	5.48	6.24	11.06
				7:43:27 PM	0.9	29.83	17.31	329.1	0.47	7.59	89.49	6.17	5.59		
			Middle	7:39:32 PM	5	29.35	22.09	315.4	0.46	7.73	93.85	6.35	5.79		
				7:42:44 PM	4.9	29.35	21.93	307.1	0.51	7.74	87.13	5.9	7.31		
			Bottom	7:38:40 PM	7	28.23	25.25	301.6	0.4	7.6	67.27	4.56	19.27	4.83	
				7:41:54 PM	7	28.11	25.62	303.1	0.33	7.59	75.19	5.09	22.92		
2009/08/21	Sunny	Mid-ebb	Surface	2:50:13 PM	0.9	30.92	19.21	150.7	1.03	7.77	104.41	7	13.46	6.45	19.25
				2:57:18 PM	1	30.53	19.67	127	1.17	7.76	102.17	6.87	11.85		
			Middle	2:49:15 PM	5	28.68	23.91	133.5	0.72	7.73	86.91	5.89	20.78		
				2:56:26 PM	5.1	28.81	23.56	129.7	0.77	7.72	88.96	6.02	17.37		
			Bottom	2:48:22 PM	7	28.66	24.01	124.7	0.61	7.74	91	6.16	24.4	6.18	
				2:55:37 PM	6.8	28.62	24.15	162.6	0.73	7.74	91.5	6.2	27.61		
		Mid-flood	Surface	5:52:03 AM	1	29.29	19.59	273.8	0.17	7.41	65.73	4.51	7.93	4.42	10.29
				5:54:00 AM	1.1	29.28	19.63	273.8	0.17	7.42	65.19	4.48	7.93		
			Middle	5:51:13 AM	5.2	28.93	23.4	298.7	0.45	7.49	64.27	4.35	10.14		
				5:53:24 AM	5.1	28.99	23.11	288.2	0.46	7.49	64.03	4.33	9.74		
			Bottom	5:50:32 AM	7	28.81	23.91	295.7	0.46	7.49	63.7	4.31	12.95	4.30	
				5:52:47 AM	7.1	28.84	23.74	293	0.53	7.5	63.45	4.29	13.05		
2009/08/23	Sunny	Mid-ebb	Surface	3:57:27 PM	1.1	30.45	21.47	145.6	0.97	7.38	84.39	5.63	7.43	5.04	16.10
				4:09:22 PM	1.1	30.3	21.75	128.2	0.97	7.34	78.89	5.27	8.74		
			Middle	3:56:35 PM	5	28.57	24.41	114.3	0.59	7.32	67.87	4.59	17.67		
				4:08:39 PM	5.1	28.88	23.6	120.1	0.64	7.31	68.92	4.66	13.96		
			Bottom	3:55:44 PM	7	28.31	25.14	91.7	0.56	7.35	78.65	5.32	23.19	5.16	
				4:07:58 PM	7	28.47	24.72	98.8	0.52	7.33	73.75	4.99	25.6		
		Mid-flood	Surface	7:38:09 AM	1	29.4	20.94	305.6	0.69	7.44	69.12	4.7	9.54	4.56	25.74
				7:42:41 AM	1.1	29.34	21.27	301.3	0.49	7.44	69.06	4.69	10.24		
			Middle	7:37:17 AM	5.1	29	23.29	314.5	0.54	7.47	65.08	4.4	25.5		
				7:41:54 AM	5.1	29	23.31	305.4	0.53	7.47	65.99	4.46	26.91		
			Bottom	7:40:59 AM	7	28.87	23.68	301.8	0.48	7.48	69.21	4.68	39.66	4.53	
				7:36:21 AM	7.1	28.86	23.69	302.3	0.47	7.47	64.82	4.38	42.57		

Annex D8 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAD

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:17:09 PM	1.2	29.83	14.2	141.9	0.44	7.47	88.67	6.22	3.51	5.59	7.15
				6:19:33 PM	1	29.94	13.98	141.9	0.44	7.5	91.2	6.39	3.51		
			Middle	6:16:25 PM	2.8	28.93	17.61	133.6	0.35	7.32	69.98	4.89	4.01		
				6:18:51 PM	2.9	28.92	17.61	141.8	0.47	7.32	69.31	4.84	3.01		
			Bottom	6:15:36 PM	5.9	27.6	23.55	110.6	0.43	7.26	51.09	3.53	13.63	3.50	
				6:18:04 PM	5.8	27.59	23.62	110.6	0.43	7.28	50.19	3.47	15.23		
		Mid-flood	Surface	10:48:31 AM	1	28.85	17.06	283.5	0.53	7.39	69.85	4.9	4.41	4.77	4.49
				10:51:12 AM	1	28.95	16.6	283.5	0.53	7.41	71.27	5	4.31		
			Middle	10:47:41 AM	2.9	28.58	18.91	281.5	0.32	7.37	65.84	4.59	4.61		
				10:50:17 AM	2.9	28.58	18.84	278.4	0.26	7.39	65.55	4.57	4.61		
			Bottom	10:46:46 AM	5.8	28.39	20.1	284.3	0.19	7.36	64.03	4.45	4.51	4.46	
				10:49:26 AM	5.7	28.47	19.62	318.5	0.32	7.37	64.14	4.47	4.51		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:34:04 PM	1.1	29.45	15.32	285.4	0.16	7.8	102.21	7.17	2.51	6.24	3.39
				8:36:36 PM	1.2	29.45	15.35	285.4	0.16	7.81	102.24	7.17	2.51		
			Middle	8:33:17 PM	3.9	29.28	18.17	290.9	0.04	7.71	92.24	6.39	2.11		
				8:35:52 PM	3.9	29.2	18.45	290.9	0.04	7.72	60.83	4.21	3.81		
			Bottom	8:32:40 PM	5.9	27.68	23.22	183.2	0.11	7.47	56.03	3.87	4.61	3.84	
				8:35:03 PM	5.9	27.69	23.18	165.4	0.1	7.49	55.13	3.81	4.81		
		Mid-flood	Surface	2:41:03 PM	0.8	29.89	14.28	190.1	0.09	7.62	97.3	6.81	3.11	5.98	3.33
				2:46:08 PM	0.9	29.87	14.35	299.4	0.39	7.62	96.69	6.77	3.11		
			Middle	2:40:04 PM	3.5	29.18	15.93	182.1	0.11	7.48	77.61	5.45	3.21		
				2:45:27 PM	3.6	28.61	19.17	292.9	0.54	7.42	69.93	4.87	3.21		
			Bottom	2:39:21 PM	5.6	27.79	22.75	294.2	0.17	7.36	55.92	3.87	3.61	4.36	
				2:44:26 PM	5.7	28.25	20.7	292.2	0.46	7.4	69.63	4.84	3.71		
2009/08/01	Sunny	Mid-ebb	Surface	8:51:50 AM	1.1	29.25	16.07	133.2	0.4	7.85	81.51	5.71	2.31	4.77	3.31
				8:53:50 AM	1.1	29.23	16.05	133.2	0.4	7.85	78.71	5.52	2.41		
			Middle	8:51:13 AM	3.8	28.17	21.2	106.4	0.36	7.7	58.05	4.03	2.91		
				8:53:15 AM	3.9	27.99	22.13	111.8	0.32	7.69	55.14	3.82	2.31		
			Bottom	8:50:39 AM	5.6	27.68	24.15	82.7	0.25	7.86	61.59	4.24	4.41	4.13	
				8:52:41 AM	5.8	27.66	24.22	82.5	0.31	7.88	58.38	4.02	5.51		
		Mid-flood	Surface	11:22:19 PM	1	29.33	16.48	131	0.21	7.62	82.66	5.77	3.01	5.74	4.43
				11:26:30 PM	1	29.24	17.06	131	0.21	7.61	81.77	5.7	2.91		
			Middle	11:21:24 PM	4	28.56	21.35	66.5	0.18	7.64	83.37	5.74	2.81		
				11:25:34 PM	4	28.55	21.29	83.1	0.12	7.64	83.29	5.74	2.91		
			Bottom	11:20:24 PM	6.1	27.64	24.27	67	0.19	7.54	63.96	4.4	7.82	4.42	
				11:24:43 PM	6	27.67	24.14	86.1	0.15	7.55	64.38	4.43	7.12		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	4:10:44 AM	1	28.5	20.54	147.4	0.1	7.53	80.83	5.6	1.91	4.69	4.91
				4:14:54 AM	1	28.51	20.59	284.9	0.1	7.53	80.25	5.55	2.01		
			Middle	4:09:44 AM	4	27.8	25.06	315	0.08	7.44	55.53	3.79	5.51		
				4:13:55 AM	4	27.82	24.8	296.6	0.02	7.44	55.54	3.8	5.21		
			Bottom	4:08:46 AM	6.1	27.71	25.95	353.9	0.22	7.43	50.9	3.47	7.12	3.50	
				4:12:52 AM	6	27.69	26.26	324.9	0.24	7.44	51.72	3.52	7.72		

Annex D8 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:46:47 PM	1.1	28.33	18.24	105.3	0.9	7.5	81.38	5.72	4.91	5.25	13.95
				2:51:06 PM	1	28.41	17.36	147.1	0.89	7.48	79.39	5.6	7.32		
			Middle	2:46:01 PM	4	27.73	22.18	151.9	0.64	7.49	70.51	4.9	12.73		
				2:50:28 PM	3.9	27.71	22.49	152.6	0.65	7.49	68.71	4.77	12.13		
			Bottom	2:45:05 PM	6	27.68	22.82	150.4	0.51	7.48	69.16	4.79	24.95	4.75	
				2:49:40 PM	5.9	27.68	22.9	133.7	0.55	7.49	68.02	4.71	21.65		
		Mid-flood	Surface	5:43:47 AM	0.9	27.91	18.46	181	0.12	7.16	82.57	5.84	9.12	5.64	7.54
				5:46:33 AM	0.9	27.92	18.41	181	0.12	7.17	81.78	5.79	9.12		
			Middle	5:43:01 AM	4	27.98	20	203.2	0.14	7.16	77.87	5.45	6.32		
				5:45:40 AM	3.9	27.98	19.91	202.3	0.14	7.17	77.87	5.46	6.42		
			Bottom	5:41:52 AM	6.5	27.7	23.92	272.3	0.25	7.16	67.36	4.64	7.32	4.62	
				5:44:50 AM	6.6	27.7	23.94	309.9	0.32	7.17	66.76	4.6	6.92		
2009/08/08	Cloudy	Mid-ebb	Surface	4:10:51 PM	0.9	30.41	13.16	148	0.83	7.47	105.74	7.38	2.24	6.67	6.08
				4:16:56 PM	1	30.41	13.07	151.8	0.84	7.57	104.12	7.28	2.85		
			Middle	4:10:03 PM	3.9	28.53	21.24	130.7	0.41	7.25	87.29	6.02	4.57		
				4:16:14 PM	4	28.47	21.56	130.7	0.41	7.37	87.3	6.01	5.48		
			Bottom	4:09:09 PM	5.8	28.31	23.51	131.3	0.47	7.24	87.72	5.99	10.45	6.03	
				4:15:27 PM	5.9	28.31	23.5	139.7	0.4	7.37	88.91	6.07	10.86		
		Mid-flood	Surface	7:02:17 AM	1.1	28.81	14.74	284.7	0.16	7.43	79.9	5.68	5.69	5.25	9.68
				7:05:11 AM	1	28.82	14.66	273.3	0.19	7.43	79.81	5.68	5.48		
			Middle	7:01:37 AM	4	28.68	20.02	299.6	0.32	7.42	69.49	4.81	7.31		
				7:04:34 AM	3.9	28.7	19.8	314.7	0.25	7.41	69.89	4.84	6.5		
			Bottom	7:00:41 AM	5.9	28.48	21.94	289.2	0.29	7.45	65.78	4.52	15.62	4.51	
				7:03:13 AM	5.9	28.46	22.12	335.1	0.54	7.45	65.48	4.5	17.45		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:10:39 PM	1.1	28.89	16.18	75.5	0.41	7.55	81.16	5.72	4.06	4.93	10.23
				5:14:58 PM	1	28.87	15.86	131.9	0.36	7.55	80.53	5.69	3.66		
			Middle	5:09:57 PM	3.9	28.55	26.44	124.5	0.34	7.61	62.87	4.21	11.36		
				5:14:11 PM	4	28.53	26.61	130.8	0.32	7.61	61.27	4.1	14.1		
			Bottom	5:09:03 PM	6.1	28.51	27.06	111.2	0.31	7.65	67.59	4.51	14.41	4.51	
				5:13:09 PM	5.8	28.52	26.85	126.4	0.33	7.65	67.27	4.5	13.8		
		Mid-flood	Surface	9:58:14 AM	1	29	19.03	259.7	0.36	7.55	79.24	5.49	3.76	4.97	5.26
				10:00:39 AM	0.9	28.99	19.06	259.7	0.36	7.54	78.12	5.41	3.66		
			Middle	9:57:30 AM	3.9	28.79	24.34	297.1	0.38	7.59	67.3	4.54	5.18		
				10:00:00 AM	3.9	28.84	23.78	272.3	0.46	7.58	65.8	4.45	4.77		
			Bottom	9:56:48 AM	5.8	28.71	25.09	282.5	0.38	7.6	67.61	4.55	6.9	4.46	
				9:59:10 AM	5.9	28.73	25	313.2	0.56	7.59	64.93	4.37	7.31		
2009/08/14	Cloudy	Mid-ebb	Surface	6:43:00 PM	1	29.12	17.94	161	0.1	7.48	73.75	5.13	3.86	5.12	3.86
				6:45:08 PM	1.2	29.11	15.63	161	0.1	7.55	80.38	5.66	3.66		
			Middle	6:42:23 PM	3	28.41	21.74	142	0.13	7.51	70.38	4.85	4.27		
				6:44:21 PM	3.2	28.4	21.73	146.5	0.1	7.51	70.37	4.85	3.96		
			Bottom	6:41:37 PM	5	28.25	23.56	154.8	0.08	7.52	68.5	4.68	3.96	4.70	
				6:43:46 PM	4.9	28.3	23.4	184.3	0.09	7.51	68.89	4.71	3.46		
		Mid-flood	Surface	12:35:53 PM	1.4	28.86	18.35	277.8	0.46	7.52	84.08	5.86	3.96	5.57	4.12
				12:38:14 PM	1.2	28.92	17.49	277.8	0.46	7.51	80.19	5.61	4.06		
			Middle	12:35:08 PM	4.2	28.57	20.47	259	0.2	7.54	81.8	5.66	4.17		
				12:37:32 PM	4.2	28.57	20.43	310.8	0.11	7.52	74.61	5.16	4.06		
			Bottom	12:34:31 PM	5.8	28.41	23.26	125.3	0.05	7.57	81.92	5.6	4.27	5.32	
				12:36:50 PM	5.7	28.42	23.14	213.9	0.64	7.55	73.77	5.04	4.17		

Annex D8 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged DO (mg/L)	Depth-averaged Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:28:52 AM	1.1	29.38	14.5	68.2	0.59	7.77	95.67	6.75	3.15	5.98	3.79
				8:40:27 AM	1.1	29.31	15.92	140.8	0.66	7.76	90.19	6.32	3.15		
			Middle	8:28:18 AM	4.1	28.58	22.12	95	0.33	7.68	80.15	5.49	2.95		
				8:39:53 AM	4.1	28.72	21.63	122.5	0.44	7.7	78.03	5.35	2.95		
			Bottom	8:27:34 AM	6	27.88	27.12	88.8	0.42	7.62	64.91	4.38	5.28	4.39	
				8:39:18 AM	6	27.84	27.16	100.1	0.45	7.63	65.28	4.4	5.28		
		Mid-flood	Surface	10:16:41 PM	1	30.12	13.43	162.5	0.24	7.81	94.41	6.62	3.66	5.06	6.33
				10:20:33 PM	1.1	29.73	16.4	154.6	0.07	7.7	81.12	5.63	3.76		
			Middle	10:16:06 PM	4	28.89	21.57	101.7	0.27	7.56	65.09	4.45	3.86		
				10:19:55 PM	4.1	28.31	22.7	111.7	0.23	7.45	51.6	3.54	5.38		
			Bottom	10:15:17 PM	6	28.14	25.22	100.1	0.19	7.47	45.77	3.11	10.86	3.33	
				10:19:05 PM	6.2	28.15	25.16	100.1	0.19	7.47	52.3	3.55	10.45		
2009/08/18	Cloudy	Mid-ebb	Surface	10:37:18 AM	1	29.16	20.73	133	0.77	8.02	107.91	7.38	3.56	6.17	9.32
				10:41:50 AM	1	29.84	18.78	128.7	0.77	8.12	106.75	7.3	2.75		
			Middle	10:36:31 AM	4	27.78	27.11	131.5	0.61	7.86	76	5.13	12.07		
				10:40:58 AM	4	27.77	27.03	135.2	0.76	7.85	72.1	4.87	9.95		
			Bottom	10:35:14 AM	6	27.64	27.72	117.6	0.44	7.88	82.74	5.58	13.19	5.63	
				10:40:07 AM	6.2	27.6	27.88	114	0.49	7.89	84.06	5.67	14.41		
		Mid-flood	Surface	7:29:37 PM	1.1	29.84	17.69	325.9	0.45	7.59	86.96	5.98	6.7	5.94	15.96
				7:31:43 PM	1.1	29.85	17.56	325.9	0.45	7.6	88.91	6.12	6.6		
			Middle	7:28:54 PM	4	29.51	19.71	326.2	0.38	7.66	85.55	5.85	10.55		
				7:31:06 PM	3.8	29.23	21.68	339.3	0.5	7.68	85.4	5.8	13.7		
			Bottom	7:28:00 PM	6	28.6	24.32	311.9	0.29	7.69	76.61	5.19	29.82	5.28	
				7:30:28 PM	6.1	28.54	24.54	307.8	0.46	7.64	79.23	5.36	28.4		
2009/08/21	Sunny	Mid-ebb	Surface	2:35:33 PM	1.1	29.85	20.39	96.3	0.88	7.69	100.04	6.78	9.14	6.54	14.31
				2:41:55 PM	1	30	20.31	150.7	1.03	7.72	97.13	6.57	9.74		
			Middle	2:34:43 PM	4	29.23	21.81	143.5	0.64	7.69	96.54	6.56	12.35		
				2:41:09 PM	4.2	28.86	23.41	140.5	0.63	7.73	92.07	6.24	14.66		
			Bottom	2:33:52 PM	5.9	28.55	24.49	134.1	0.41	7.71	97.43	6.59	20.28	6.66	
				2:40:13 PM	6	28.56	23.45	134.1	0.41	7.75	98.81	6.72	19.68		
		Mid-flood	Surface	6:02:12 AM	1	29.28	19.98	290.3	0.22	7.43	64.6	4.43	7.83	4.44	13.59
				6:04:14 AM	1.1	29.26	19.64	290.3	0.22	7.43	65.63	4.51	8.03		
			Middle	6:01:26 AM	4.1	29.15	22.43	290.9	0.4	7.49	65.21	4.42	9.54		
				6:03:39 AM	3.9	29.13	22.61	293.5	0.47	7.5	64.77	4.39	9.44		
			Bottom	6:00:45 AM	6.1	28.97	23.41	304	0.38	7.49	64.44	4.36	23.9	4.34	
				6:02:58 AM	6.1	28.97	23.4	288.7	0.4	7.51	63.9	4.32	22.79		
2009/08/23	Sunny	Mid-ebb	Surface	3:46:01 PM	1	30.63	21.27	141	0.79	7.36	86.17	5.74	7.53	5.22	11.70
				3:51:15 PM	1.1	30.43	21.53	145.5	0.76	7.36	82.06	5.47	7.83		
			Middle	3:45:13 PM	3.9	28.96	23.24	124.2	0.59	7.3	71.97	4.87	10.04		
				3:50:33 PM	4	28.77	23.81	131	0.65	7.32	71.08	4.81	11.95		
			Bottom	3:44:18 PM	5.9	28.43	24.79	106.5	0.55	7.32	71.87	4.86	17.57	5.04	
				3:49:51 PM	5.9	28.42	24.81	105.6	0.61	7.35	77.02	5.21	15.26		
		Mid-flood	Surface	7:48:55 AM	1.2	29.3	19.75	305.8	0.48	7.44	73.76	5.06	7.63	4.80	14.29
				7:51:13 AM	1.1	29.31	19.63	293.5	0.49	7.43	72.04	4.94	7.73		
			Middle	7:48:14 AM	4	29.28	21.8	311.5	0.44	7.45	69.25	4.7	11.15		
				7:50:32 AM	4	29.2	22.32	298.8	0.54	7.46	66.38	4.5	11.15		
			Bottom	7:47:40 AM	6	29.1	22.9	305.7	0.46	7.47	68.31	4.62	22.79	4.55	
				7:49:47 AM	6.1	29.11	22.85	304.2	0.47	7.47	66.02	4.47	25.3		

Annex D9 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBA

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	5:16:58 PM	1	29.46	14.07	119	0.63	7.44	123.02	8.69	3.96	7.96	3.32
				5:20:12 PM	0.9	29.48	13.96	121.6	0.58	7.45	115.05	8.13	3.96		
			Middle	5:15:36 PM	3.9	28.9	17.53	135.1	0.51	7.3	112.24	7.85	2.74		
				5:19:17 PM	3.9	28.86	17.88	125	0.53	7.32	102.85	7.18	2.64		
			Bottom	5:14:31 PM	5.9	28.21	21.22	129.4	0.38	7.25	110.19	7.64	3.25	7.21	
				5:18:04 PM	6.3	28.2	21.23	112	0.4	7.27	97.66	6.77	3.35		
		Mid-flood	Surface	11:39:59 AM	0.9	29.1	16.21	316.4	0.36	7.37	99.1	6.96	3.15	6.83	3.61
				11:45:16 AM	1.1	28.89	17.47	301.3	0.31	7.36	98.01	6.86	3.35		
			Middle	11:39:07 AM	4.1	28.72	18.33	296.2	0.39	7.35	96.6	6.75	3.25		
				11:44:19 AM	4	28.69	18.37	287.2	0.37	7.36	96.68	6.75	3.25		
			Bottom	11:37:51 AM	6.2	28.41	19.74	279.5	0.65	7.34	100.71	7.01	3.76	6.78	
				11:43:20 AM	6	28.21	20.66	285.3	0.49	7.34	94.18	6.55	4.87		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	7:03:36 PM	1	29.35	18.37	270	0.01	7.67	98.95	6.84	3.05	6.08	3.27
				7:06:40 PM	0.9	29.37	18.15	344.4	0.1	7.68	98.05	6.78	3.05		
			Middle	7:02:25 PM	4.1	28.32	21.3	136.8	0.09	7.49	74.83	5.18	2.74		
				7:05:41 PM	3.9	28.54	20.69	223.2	0.18	7.52	79.64	5.51	2.94		
			Bottom	7:01:22 PM	6	27.85	22.77	135	0.07	7.43	70.63	4.88	5.28	5.15	
				7:04:44 PM	6	28.23	21.66	212.1	0.12	7.51	78.24	5.41	2.54		
		Mid-flood	Surface	3:06:41 PM	1.2	29.48	17.45	261	0.28	7.68	109.6	7.59	2.94	6.37	5.75
				3:10:34 PM	1.1	29.62	17.12	256.7	0.24	7.7	102.24	7.08	2.84		
			Middle	3:05:20 PM	4.1	28.16	21.69	244	0.19	7.44	80.26	5.55	3.35		
				3:09:37 PM	3.8	28.26	21.34	253.3	0.18	7.46	76.14	5.27	2.74		
			Bottom	3:04:04 PM	5.9	27.49	24.1	310.6	0.29	7.41	79.92	5.52	14.5	5.24	
				3:08:36 PM	5.9	27.87	22.68	317.7	0.3	7.41	71.55	4.95	8.12		
2009/08/01	Sunny	Mid-ebb	Surface	10:17:38 AM	1	29.58	15.8	78.5	0.56	7.6	108.57	7.58	3.15	6.86	3.86
				10:22:15 AM	0.9	29.82	15.86	89.9	0.52	7.62	106	7.37	3.76		
			Middle	10:16:23 AM	4	28.4	21.95	96.7	0.62	7.64	94.26	6.49	1.73		
				10:21:14 AM	4.1	28.37	21.56	96.6	0.44	7.6	87.14	6.01	2.03		
			Bottom	10:15:16 AM	5.9	27.58	24.6	105.2	0.4	7.45	88.21	6.06	6.29	5.98	
				10:20:05 AM	6.2	27.66	24.35	107.5	0.38	7.44	85.81	5.9	6.19		
		Mid-flood	Surface	9:41:36 PM	1	30.11	12.38	152.4	0.17	7.52	90.98	6.41	4.97	6.64	3.87
				9:44:32 PM	1.2	30.05	12.75	56.4	0.23	7.53	92.29	6.5	4.67		
			Middle	9:40:28 PM	3.8	29.14	19.75	354.2	0.27	7.61	99.49	6.84	3.15		
				9:43:35 PM	3.7	29.14	19.73	39.4	0.15	7.61	98.99	6.81	3.65		
			Bottom	9:39:17 PM	5.9	27.81	24.43	290.4	0.18	7.49	80.47	5.52	3.45	5.55	
				9:42:31 PM	5.9	27.85	24.23	1.5	0.22	7.49	81.17	5.57	3.35		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:07:29 AM	1.1	28.54	21.61	299	0.12	7.68	77.26	5.31	2.74	4.62	5.28
				5:10:35 AM	1	28.53	21.63	329.7	0.16	7.68	75.97	5.23	2.74		
			Middle	5:06:19 AM	3.9	28.25	24.12	298.8	0.27	7.63	57.84	3.94	4.47		
				5:09:33 AM	4	28.14	24.79	300.7	0.2	7.61	58.87	4	4.97		
			Bottom	5:05:05 AM	5.9	27.47	26.7	284.2	0.23	7.57	53.49	3.64	8.42	3.68	
				5:08:30 AM	5.9	27.75	26.29	283.6	0.26	7.59	54.61	3.71	8.32		

Annex D9 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged DO (mg/L)	Depth-averaged Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	1:10:56 PM	1.1	28.27	20.44	127.9	0.71	7.48	106.45	7.4	5.18	6.91	13.76
				1:14:13 PM	1.2	28.2	20.5	121.9	0.54	7.48	99.09	6.9	5.38		
			Middle	1:09:35 PM	4	27.81	22.36	100.4	0.57	7.45	100.82	6.99	12.37		
				1:13:11 PM	4.4	27.8	22.49	113.5	0.57	7.45	91.27	6.33	13.08		
			Bottom	1:08:24 PM	6.3	27.76	23.41	96.8	0.67	7.5	111.53	7.7	23.53	7.25	
				1:12:03 PM	6.6	27.75	23.58	92.5	0.44	7.5	98.51	6.79	23.02		
		Mid-flood	Surface	6:41:14 AM	1.2	27.81	23.69	270.9	0.49	7.54	71.17	4.9	4.97	4.83	8.22
				6:44:51 AM	1	27.83	23.21	288.8	0.36	7.53	71.84	4.96	5.07		
			Middle	6:40:09 AM	4.1	27.76	24.8	297.4	0.36	7.55	70.09	4.8	9.64		
				6:43:38 AM	4.1	27.7	25.19	304	0.45	7.55	67.8	4.64	10.14		
			Bottom	6:39:05 AM	5.9	27.71	25.2	263.6	0.46	7.55	71.68	4.9	9.94	4.64	
				6:42:33 AM	5.8	27.49	26.5	290.9	0.49	7.56	64.25	4.38	9.54		
2009/08/08	Cloudy	Mid-ebb	Surface	2:07:58 PM	1.3	29.27	16.79	111.6	0.8	7.49	97.66	6.81	4.06	6.26	8.94
				2:10:04 PM	1.2	29.36	16.93	113.4	0.75	7.48	91.55	6.37	4.26		
			Middle	2:07:12 PM	3.7	28.82	18.97	99.9	0.65	7.42	86.95	6.04	4.97		
				2:09:28 PM	3.5	28.77	19.48	106.3	0.68	7.43	84.08	5.83	9.13		
			Bottom	2:05:42 PM	6.2	28.49	22.94	91.6	0.63	7.47	86.26	5.89	13.59	5.76	
				2:08:52 PM	6.4	28.43	23.47	134.1	0.44	7.47	82.49	5.63	17.65		
		Mid-flood	Surface	7:50:51 AM	1.2	28.91	16.62	310.7	0.4	7.47	83.1	5.84	4.77	5.52	6.04
				7:52:48 AM	1.1	28.8	17.51	304.1	0.39	7.46	77.57	5.43	5.28		
			Middle	7:50:01 AM	4.1	28.79	18.04	276.8	0.32	7.46	80.07	5.59	5.58		
				7:52:11 AM	3.8	28.74	18.37	278.5	0.38	7.46	74.74	5.22	6.09		
			Bottom	7:49:26 AM	5.9	28.66	19.34	285.6	0.87	7.47	83.9	5.83	6.19	5.53	
				7:51:34 AM	6.1	28.22	22.46	285.6	0.87	7.47	76.05	5.23	8.32		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:04:50 PM	1.1	28.85	16.05	113.5	0.61	7.51	89.68	6.33	3.45	5.81	4.38
				4:07:35 PM	1.2	28.86	16.65	117.8	0.52	7.5	86.68	6.1	3.25		
			Middle	4:03:43 PM	3.6	28.87	20.68	98.4	0.57	7.5	79.27	5.45	3.45		
				4:06:42 PM	4.1	28.83	21.51	97.1	0.58	7.51	78.27	5.36	3.55		
			Bottom	4:02:41 PM	6	28.35	25.96	85.1	0.32	7.51	72.96	4.91	6.39	4.84	
				4:05:49 PM	6.3	28.33	26.06	80.1	0.36	7.52	70.76	4.76	6.19		
		Mid-flood	Surface	11:00:01 AM	1.1	28.99	21.04	300.8	0.33	7.47	79.92	5.47	3.25	5.17	5.21
				11:03:28 AM	1.2	28.9	22.27	320.7	0.34	7.49	75.9	5.17	3.55		
			Middle	10:58:41 AM	3.8	28.84	23.12	289.8	0.34	7.49	74.28	5.04	4.26		
				11:02:32 AM	4	28.81	23.17	267.4	0.29	7.49	73.55	4.99	4.57		
			Bottom	10:57:22 AM	6.3	28.59	25.76	274.8	0.47	7.49	74.45	5	7.51	4.97	
				11:01:34 AM	6	28.54	25.51	291.6	0.64	7.5	73.41	4.94	8.12		
2009/08/14	Cloudy	Mid-ebb	Surface	5:41:23 PM	1.2	29.54	15.31	141.3	0.13	7.32	92.44	6.47	3.45	6.11	3.55
				5:44:07 PM	1.2	29.68	15.09	141.3	0.13	7.33	92.91	6.5	3.45		
			Middle	5:40:15 PM	4	28.49	21.83	145.1	0.23	7.32	83.65	5.75	3.15		
				5:43:08 PM	4	28.67	20.6	173.1	0.16	7.34	82.69	5.71	2.84		
			Bottom	5:38:56 PM	6	28.23	24	35.4	0.08	7.29	75.47	5.15	4.26	5.03	
				5:42:18 PM	6	28.15	24.49	62.4	0.05	7.29	71.87	4.9	4.16		
		Mid-flood	Surface	1:29:06 PM	1.1	29.18	15.65	302.5	0.28	7.49	96.03	6.75	2.74	6.07	3.42
				1:33:21 PM	1	28.77	17.77	309.6	0.46	7.48	92.92	6.5	2.64		
			Middle	1:27:40 PM	3.9	28.39	21.42	289.9	0.34	7.43	79.86	5.51	3.76		
				1:32:20 PM	4.3	28.44	21.19	288.6	0.29	7.43	80.11	5.53	3.96		
			Bottom	1:26:23 PM	6.2	28.19	23.07	289.3	0.44	7.43	82.83	5.68	3.45	5.54	
				1:31:20 PM	6	28.23	23.16	289.7	0.55	7.43	78.83	5.4	3.96		

Annex D9 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged DO (mg/L)	Depth-averaged Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	9:36:23 AM	0.9	29.68	12.67	111.6	0.75	7.51	101.61	7.2	2.94	6.51	5.24
				9:41:10 AM	0.9	29.69	12.79	121.5	0.8	7.51	96.34	6.82	5.07		
			Middle	9:35:22 AM	4.3	29.13	17.57	98.3	0.68	7.39	86.44	6.02	2.94		
				9:40:06 AM	4.1	28.88	20.54	108.6	0.7	7.38	86.89	5.98	3.55		
			Bottom	9:34:20 AM	5.8	28.03	26.46	76.3	0.6	7.33	65.55	4.43	7.2	4.46	
				9:39:01 AM	6.1	27.9	27.25	96.6	0.38	7.33	66.7	4.49	9.74		
		Mid-flood	Surface	9:05:03 PM	1.2	30.3	14.45	279	0.05	7.41	88.24	6.13	4.06	5.45	4.75
				9:07:39 PM	1.2	30.34	14.72	279	0.05	7.44	88.95	6.17	4.06		
			Middle	9:04:18 PM	4	28.71	22.37	57.2	0.09	7.27	68.69	4.69	3.45		
				9:06:56 PM	4	28.8	22.04	77.7	0.2	7.31	70.44	4.81	3.86		
			Bottom	9:03:27 PM	6.1	27.55	27.35	20.3	0.11	7.22	55.53	3.76	7.51	4.00	
				9:06:07 PM	6.1	28.16	24.9	23.9	0.17	7.29	62.32	4.24	5.58		
2009/08/18	Cloudy	Mid-ebb	Surface	11:55:42 AM	1.6	29.62	21.25	103.4	0.87	7.64	83.33	5.64	2.23	4.68	9.06
				11:58:54 AM	1.2	29.51	20.78	118.4	0.85	7.59	79.5	5.4	2.64		
			Middle	11:54:38 AM	4.3	28.11	25.86	102	0.77	7.39	51.87	3.51	8.83		
				11:57:53 AM	4.1	28.04	26.19	100.9	0.79	7.41	61.44	4.15	7.51		
			Bottom	11:53:41 AM	5.9	27.84	27.13	105.4	0.65	7.42	57.17	3.86	18.56	3.79	
				11:56:54 AM	6.3	27.84	27.13	77.7	0.52	7.43	55.12	3.72	14.61		
		Mid-flood	Surface	6:06:12 PM	1.3	29.83	20.09	301.2	0.45	7.62	71.4	4.85	4.87	4.47	13.73
				6:11:27 PM	1.1	29.16	22.98	304.8	0.55	7.57	67.51	4.56	14.61		
			Middle	6:05:11 PM	3.9	29.24	22.75	293.5	0.46	7.58	62.34	4.21	8.32		
				6:09:58 PM	3.9	28.93	23.65	291.4	0.49	7.53	62.91	4.25	14.61		
			Bottom	6:04:19 PM	5.9	28.06	26	282.8	0.4	7.45	48.17	3.26	18.05	3.42	
				6:08:40 PM	5.9	28.1	25.9	300.9	0.46	7.46	52.85	3.58	21.91		
2009/08/21	Sunny	Mid-ebb	Surface	1:18:53 PM	1	29.91	21.92	118.8	0.9	7.48	81.11	5.44	5.78	5.24	17.26
				1:22:36 PM	1.2	29.79	21.94	121.4	0.81	7.49	82.5	5.55	5.48		
			Middle	1:17:41 PM	3.8	28.75	24.35	109.3	0.87	7.45	75.46	5.09	16.43		
				1:21:15 PM	4.2	28.68	24.55	107.8	0.81	7.45	72.07	4.87	17.75		
			Bottom	1:20:02 PM	6.1	28.54	25.03	96.1	0.67	7.47	74.54	5.03	32.76	5.22	
				1:16:21 PM	5.8	28.6	24.88	98.5	0.7	7.47	79.98	5.4	25.35		
		Mid-flood	Surface	7:15:24 AM	1.3	29.13	21.97	306.7	0.56	7.43	74.49	5.06	6.7	5.00	14.30
				7:19:04 AM	1.2	29.13	21.55	306.7	0.56	7.42	73.27	4.99	5.18		
			Middle	7:13:56 AM	4.2	28.91	23.19	295.4	0.53	7.43	75.39	5.11	10.04		
				7:18:08 AM	4	29.07	22.69	307.6	0.6	7.44	71.61	4.85	9.13		
			Bottom	7:12:30 AM	7.2	28.32	25.48	270	0.64	7.46	76.09	5.14	30.12	4.95	
				7:17:03 AM	6.2	28.49	24.89	278.1	0.62	7.45	70.35	4.76	24.64		
2009/08/23	Sunny	Mid-ebb	Surface	2:23:27 PM	0.9	30.26	22.73	111.1	1.08	7.33	90.78	6.03	5.99	5.66	18.75
				2:31:41 PM	1.4	30.59	22.51	113.9	0.76	7.36	87.52	5.79	4.57		
			Middle	2:22:28 PM	4.5	28.88	24.8	99.5	0.73	7.27	85.72	5.76	14		
				2:30:59 PM	4	28.9	24.33	101.9	0.96	7.27	75.15	5.06	18.66		
			Bottom	2:21:27 PM	6	28.21	26.07	83.5	0.54	7.24	80.74	5.45	32.96	5.14	
				2:30:17 PM	5.7	28.24	25.99	130	0.49	7.24	71.43	4.82	36.31		
		Mid-flood	Surface	8:30:10 AM	1.3	29.35	22.88	287.2	0.62	7.37	76.94	5.18	6.6	5.05	15.37
				8:32:19 AM	1.2	29.35	22.89	287.2	0.62	7.36	72.43	4.88	7.51		
			Middle	8:28:41 AM	4	29.12	23.47	298.7	0.64	7.37	78.13	5.27	15.72		
				8:31:38 AM	3.8	29.13	23.45	288.1	0.67	7.36	72.45	4.88	16.43		
			Bottom	8:27:59 AM	6.2	28.68	24.71	280.1	0.66	7.37	80.48	5.43	23.83	5.18	
				8:31:00 AM	6.2	28.77	24.41	281.1	0.58	7.37	73.04	4.93	22.11		

Annex D10 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBB

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:44:57 PM	0.7	29.46	13.99	124.8	0.55	7.33	108	7.63	3.65	6.66	7.17
				4:48:13 PM	1.1	29.47	13.92	128.4	0.54	7.36	104.81	7.41	3.65		
			Middle	4:43:42 PM	8.2	27.75	22.65	55.8	0.22	7.11	85.65	5.94	6.7		
				4:47:13 PM	8	27.84	22.35	31.3	0.19	7.16	81.65	5.66	5.38		
			Bottom	4:42:34 PM	13.9	27.24	24.86	358.1	0.12	7.07	83.52	5.77	10.75	5.59	
				4:46:04 PM	14	27.24	24.85	4.7	0.17	7.13	78.21	5.4	12.88		
		Mid-flood	Surface	12:18:24 PM	0.9	28.77	18.16	279.3	0.36	7.36	100.54	7.02	3.25	6.55	8.17
				12:22:08 PM	1	28.8	17.97	299.8	0.41	7.37	94.98	6.64	3.25		
			Middle	12:17:01 PM	7	28.02	21.47	340.4	0.31	7.32	94.41	6.56	11.56		
				12:20:44 PM	7.2	27.95	21.78	319.5	0.25	7.33	86.06	5.97	10.75		
			Bottom	12:15:40 PM	14.3	27.49	23.91	177.1	0.1	7.3	95.02	6.57	10.45	6.19	
				12:19:44 PM	14.3	27.48	23.97	177.1	0.1	7.32	83.87	5.8	9.74		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:38:01 PM	1.1	29.29	18.68	275.6	0.37	7.61	97.73	6.75	2.03	5.36	8.23
				6:41:03 PM	1	29.29	18.76	274.1	0.14	7.61	95.43	6.59	2.13		
			Middle	6:36:54 PM	7.8	27.28	24.75	19.4	0.11	7.31	59.62	4.12	7		
				6:40:02 PM	8.1	27.19	25.01	242.8	0.15	7.3	57.72	3.98	6.49		
			Bottom	6:35:31 PM	14.1	26.34	27.66	6.7	0.29	7.21	53.72	3.71	12.27	3.65	
				6:39:07 PM	14.1	26.26	27.91	179.6	0.15	7.23	51.82	3.58	19.47		
		Mid-flood	Surface	3:38:33 PM	1.1	29.79	17	305.2	0.41	7.76	111.99	7.74	4.47	6.07	12.32
				3:42:21 PM	1	29.62	17.46	293.6	0.38	7.73	101.53	7.02	3.45		
			Middle	3:35:19 PM	7.8	27.1	25.27	350.9	0.3	7.37	74.64	5.15	9.23		
				3:41:12 PM	8	27.09	25.32	34.5	0.14	7.38	63.13	4.36	10.14		
			Bottom	3:34:15 PM	14	26.29	27.85	35.9	0.23	7.31	67.25	4.64	27.38	4.34	
				3:40:03 PM	14	26.3	27.79	35.9	0.23	7.32	58.6	4.04	19.27		
2009/08/01	Sunny	Mid-ebb	Surface	10:45:27 AM	1.3	29.37	16.46	111.2	0.54	7.6	91.01	6.35	3.35	5.09	7.73
				10:48:55 AM	1.1	29.57	16.56	122.4	0.36	7.6	85.03	5.91	3.25		
			Middle	10:44:17 AM	8.3	27.39	25.01	57.3	0.05	7.37	59.24	4.08	11.26		
				10:47:52 AM	8.1	27.64	24.39	43.9	0.11	7.48	58.65	4.03	8.52		
			Bottom	10:43:25 AM	13.7	26.39	27.91	77	0.03	7.23	53.66	3.69	13	3.64	
				10:46:51 AM	13.5	26.35	27.95	3.3	0.16	7.28	51.95	3.58	7		
		Mid-flood	Surface	9:17:53 PM	0.7	29.95	10.94	229.5	0.13	7.46	90.46	6.44	4.97	5.25	9.10
				9:21:08 PM	1.3	29.89	15.62	191.6	0.05	7.56	95.26	6.62	4.16		
			Middle	9:16:43 PM	8.1	27.09	26.21	16.5	0.28	7.27	56.33	3.87	12.07		
				9:20:13 PM	7.9	27.18	26	39.4	0.35	7.31	59.44	4.08	10.55		
			Bottom	9:15:23 PM	14.1	26.3	28.17	16.9	0.06	7.11	42.02	2.89	11.77	3.06	
				9:18:56 PM	14	26.33	28.13	51.1	0.12	7.14	46.93	3.23	11.06		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:35:10 AM	1.3	28.4	22.06	300.5	0.3	7.65	78.37	5.39	4.77	4.50	7.74
				5:38:33 AM	1.3	28.41	21.54	291.1	0.28	7.66	81.13	5.59	4.47		
			Middle	5:34:05 AM	8.1	26.84	28.06	7.6	0.13	7.51	53.32	3.64	9.84		
				5:37:24 AM	7.9	26.94	27.83	332.8	0.16	7.51	49.18	3.36	9.43		
			Bottom	5:33:03 AM	14	26.59	28.58	79.9	0.17	7.49	55.14	3.77	9.23	3.57	
				5:36:24 AM	13.9	26.58	28.58	246.8	0.02	7.49	49.28	3.37	8.72		

Annex D10 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:44:29 PM	1.3	28.14	20.4	129.3	0.58	7.42	95.79	6.68	5.28	6.21	24.61
				12:48:12 PM	1.1	28.22	20.26	142	0.67	7.44	92.77	6.46	5.38		
			Middle	12:43:15 PM	7.9	27.8	22.51	151.4	0.35	7.4	86.56	6	22.62		
				12:47:00 PM	7.8	27.8	22.48	132.3	0.34	7.4	82.35	5.71	23.12		
			Bottom	12:41:53 PM	14.3	27.69	24.29	57.9	0.51	7.43	92.63	6.37	47.76	6.11	
				12:45:51 PM	14	27.7	24.11	92.5	0.23	7.44	85.05	5.85	43.5		
		Mid-flood	Surface	7:08:48 AM	1.5	27.9	21.3	321.1	0.26	7.53	77.79	5.42	5.68	5.10	13.90
				7:12:01 AM	1.3	27.89	21.47	7.6	0.18	7.53	78.06	5.43	5.58		
			Middle	7:07:36 AM	8.3	27.64	25.47	325.9	0.19	7.56	70.5	4.82	13.69		
				7:11:01 AM	8.2	27.67	25.29	11.8	0.49	7.56	69.2	4.73	10.75		
			Bottom	7:06:17 AM	14.2	27.52	26.31	306.4	0.34	7.56	69.62	4.75	25.66	4.67	
				7:09:51 AM	13.5	27.53	26.26	312.3	0.25	7.56	67.23	4.58	22.01		
2009/08/08	Cloudy	Mid-ebb	Surface	1:40:58 PM	1.3	29.55	16.1	128.6	0.73	7.49	104.92	7.31	5.07	6.45	38.33
				1:44:13 PM	0.8	29.65	16.02	130.1	0.62	7.49	98.55	6.86	6.19		
			Middle	1:39:37 PM	7.6	28.38	23.17	91.7	0.13	7.44	87.02	5.95	49.08		
				1:43:27 PM	8.1	28.46	22.51	103.4	0.13	7.43	82.87	5.68	44.42		
			Bottom	1:38:50 PM	13.8	28.1	24.75	121.7	0.09	7.42	88.32	6.01	62.16	5.83	
				1:42:44 PM	13.9	28.04	24.94	202.4	0.06	7.41	83	5.65	63.07		
		Mid-flood	Surface	8:13:34 AM	1.2	28.8	18.78	300.2	0.48	7.48	75.46	5.25	5.07	4.87	11.36
				8:16:06 AM	1.1	28.81	18.76	313.6	0.56	7.48	72.85	5.07	5.07		
			Middle	8:12:44 AM	8.2	28.15	22.6	316.7	0.19	7.46	67.27	4.63	13.29		
				8:15:22 AM	7.9	28.16	22.55	298.9	0.18	7.46	65.77	4.53	12.58		
			Bottom	8:11:59 AM	14.2	27.86	24.34	141.3	0.1	7.45	68.88	4.72	16.63	4.61	
				8:14:26 AM	13.9	27.86	24.35	141.3	0.1	7.46	65.46	4.49	15.52		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	3:33:15 PM	1.4	28.91	14.53	118.4	0.59	7.44	82.95	5.9	3.96	5.10	11.94
				3:36:23 PM	1.2	28.82	15.15	123.3	0.55	7.5	85.05	6.03	3.45		
			Middle	3:31:47 PM	8	28.39	25.99	73.3	0.14	7.5	63.84	4.3	11.06		
				3:35:22 PM	7.9	28.38	25.99	95.9	0.23	7.51	61.94	4.17	9.84		
			Bottom	3:30:40 PM	14.1	28.2	26.98	25.9	0.08	7.49	64.64	4.34	22.51	4.20	
				3:34:22 PM	13.8	28.2	27	50.3	0.12	7.51	60.54	4.06	20.79		
		Mid-flood	Surface	11:27:23 AM	1.4	28.76	22.53	309.3	0.41	7.5	77.58	5.29	3.86	4.79	11.09
				11:30:34 AM	1.1	28.75	22.63	309.3	0.41	7.49	75.86	5.17	4.06		
			Middle	11:26:03 AM	8.2	28.44	25.95	282.3	0.22	7.48	64.94	4.37	11.56		
				11:29:24 AM	8	28.42	25.87	274.8	0.14	7.48	64.28	4.33	10.65		
			Bottom	11:25:01 AM	14.2	28.19	27.25	210.3	0.11	7.47	65.02	4.36	17.95	4.27	
				11:28:26 AM	13.9	28.16	27.38	195.7	0.13	7.48	62.33	4.18	18.46		
2009/08/14	Cloudy	Mid-ebb	Surface	5:17:20 PM	1.2	29.34	16.66	171.2	0.11	7.29	86.59	6.04	3.55	4.95	11.09
				5:20:26 PM	1.2	29.33	17.07	171.2	0.11	7.3	83.42	5.81	3.55		
			Middle	5:16:08 PM	8	27.89	26.25	78.5	0.13	7.23	60.24	4.08	8.93		
				5:19:28 PM	8	27.84	26.59	42.6	0.15	7.23	57.25	3.88	10.45		
			Bottom	5:15:02 PM	14	27.64	27.62	23.1	0.08	7.21	59.92	4.05	17.34	3.94	
				5:18:26 PM	14.3	27.64	27.62	45	0.09	7.22	56.73	3.83	22.72		
		Mid-flood	Surface	1:57:24 PM	1.1	28.69	19.9	308.2	0.43	7.46	88.41	6.12	3.45	5.31	11.55
				2:00:37 PM	1.3	28.77	19.27	308.2	0.43	7.47	84.34	5.85	4.47		
			Middle	1:56:10 PM	8.2	28.07	25.73	356.1	0.16	7.41	71.61	4.85	16.53		
				1:59:36 PM	8	28.1	25.48	337.4	0.16	7.41	65.28	4.43	13.69		
			Bottom	1:55:03 PM	14.1	27.8	27.49	141	0.11	7.4	73.29	4.94	15.52	4.66	
				1:58:33 PM	14	27.8	27.47	141	0.11	7.41	64.8	4.37	15.62		

Annex D10 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	10:07:55 AM	1.4	29.49	14.56	108.1	0.68	7.46	102.59	7.22	3.55	5.65	10.41
				10:12:33 AM	1.4	29.38	15.1	108.1	0.68	7.45	93.31	6.56	3.45		
			Middle	10:06:20 AM	8.1	27.91	27.26	112	0.32	7.35	69.87	4.71	12.68		
				10:11:14 AM	8.4	27.89	27.51	126.7	0.25	7.35	61	4.1	14.81		
			Bottom	10:05:17 AM	13.8	27	28.81	329.6	0.11	7.33	80.59	5.46	13.08	5.01	
				10:10:08 AM	13.9	27.06	28.79	40.4	0.12	7.33	67.2	4.55	14.91		
		Mid-flood	Surface	8:43:04 PM	1.4	30.21	15.3	173.5	0.34	7.4	86.19	5.97	4.16	4.59	11.78
				8:46:04 PM	1.1	30.19	15.45	173.5	0.34	7.41	90.58	6.27	4.16		
			Middle	8:42:04 PM	8.2	27.58	27.14	59.6	0.2	7.15	44.77	3.03	11.67		
				8:45:11 PM	8.2	27.59	27.1	59.6	0.2	7.18	45.78	3.1	11.56		
			Bottom	8:40:57 PM	13.8	27.29	28.16	33.7	0.19	7.13	42.89	2.9	20.18	2.91	
				8:44:16 PM	13.8	27.29	28.12	19.2	0.13	7.16	42.94	2.91	18.97		
2009/08/18	Cloudy	Mid-ebb	Surface	12:23:35 PM	1.3	29.47	21.24	130.8	0.72	7.59	87.27	5.92	3.15	4.73	18.85
				12:26:46 PM	1.3	29.19	22.31	130.8	0.72	7.57	81.12	5.5	3.55		
			Middle	12:22:26 PM	8	27.83	26.87	113.4	0.42	7.39	56.06	3.79	19.57		
				12:25:48 PM	8.3	27.82	26.9	110.7	0.41	7.39	54.96	3.71	19.88		
			Bottom	12:21:31 PM	14.1	27.71	27.59	46.2	0.24	7.4	58.95	3.98	29.31	4.11	
				12:24:35 PM	13.9	27.72	27.55	64.7	0.32	7.42	62.92	4.24	37.62		
		Mid-flood	Surface	5:38:46 PM	1.5	29.91	19.62	303	0.48	7.59	78.1	5.31	5.18	4.43	23.26
				5:42:03 PM	1.4	29.85	19.87	303	0.48	7.62	85.45	5.81	7.1		
			Middle	5:37:35 PM	8	27.86	26.12	255.8	0.29	7.31	47.55	3.23	12.68		
				5:41:08 PM	8.1	27.88	26.06	239	0.17	7.32	49.68	3.37	13.79		
			Bottom	5:36:15 PM	14	27.23	27.94	254.4	0.15	7.31	45.3	3.07	45.23	3.14	
				5:39:55 PM	13.8	27.21	28.02	254.4	0.15	7.31	47.22	3.2	55.57		
2009/08/21	Sunny	Mid-ebb	Surface	12:46:33 PM	1.2	29.92	21.38	156.8	0.96	7.44	85.49	5.75	5.99	5.50	38.08
				12:51:39 PM	1.3	29.77	21.59	138.1	0.8	7.45	87.65	5.91	5.68		
			Middle	12:45:31 PM	7.9	28.54	25.12	123.7	0.63	7.43	76.05	5.13	51.62		
				12:50:15 PM	8.1	28.67	24.57	117.8	0.6	7.42	77.05	5.2	34.18		
			Bottom	12:44:20 PM	13.7	28.43	25.48	58.3	0.29	7.44	78.34	5.28	75.65	5.34	
				12:49:15 PM	13.8	28.52	25.14	86.1	0.44	7.43	79.82	5.39	55.37		
		Mid-flood	Surface	7:43:29 AM	1.1	29.06	22.36	348.2	0.35	7.45	73.48	4.99	8.52	4.78	38.27
				7:52:08 AM	1.2	29.13	22.65	313.6	0.59	7.48	70.55	4.78	9.33		
			Middle	7:41:50 AM	7.8	28.67	24.19	273.2	0.33	7.45	70.76	4.79	40.77		
				7:50:45 AM	8	28.79	23.65	307.8	0.09	7.47	67.06	4.54	32.25		
			Bottom	7:40:07 AM	14.5	28.3	25.57	283.2	0.39	7.45	73.22	4.95	79.81	4.76	
				7:49:27 AM	13.9	28.35	25.32	262.7	0.27	7.47	67.66	4.57	58.92		
2009/08/23	Sunny	Mid-ebb	Surface	1:58:04 PM	1.3	30.06	22.95	127.1	0.62	7.25	83.87	5.58	6.9	5.22	67.13
				2:01:18 PM	1.2	30.15	22.74	127.1	0.62	7.27	81	5.39	5.28		
			Middle	1:56:58 PM	8.1	28.49	25.29	88.6	0.52	7.17	74.34	5.01	58.92		
				2:00:22 PM	8.2	28.55	25.24	92.3	0.61	7.2	72.84	4.91	52.73		
			Bottom	1:55:12 PM	14	28.13	26.26	49.7	0.31	7.15	75.58	5.1	146.12	4.84	
				1:59:21 PM	14.3	28.11	26.36	81.4	0.43	7.18	67.8	4.57	132.84		
		Mid-flood	Surface	8:57:35 AM	1.1	29.35	22.91	309.7	0.67	7.41	68.72	4.63	7.41	4.66	28.72
				8:54:08 AM	1.1	29.32	22.97	309.7	0.67	7.4	71.77	4.84	7.41		
			Middle	8:53:18 AM	8	28.93	23.97	335.2	0.39	7.39	69.67	4.7	25.05		
				8:56:48 AM	8	29.07	23.6	329.1	0.43	7.4	66.33	4.47	13.39		
			Bottom	8:52:18 AM	13.9	28.16	26.15	278.9	0.61	7.39	68.64	4.63	67.74	4.49	
				8:56:01 AM	14.2	28.27	25.84	271.5	0.53	7.4	64.52	4.35	51.31		

Annex D11 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBC

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:28:29 PM	0.9	29.43	14.07	131.5	0.53	7.23	109.95	7.77	3.96	7.13	4.14
				4:33:09 PM	1.1	29.33	14.5	130.1	0.48	7.25	104.99	7.41	3.76		
			Middle	4:27:21 PM	5.1	28.75	18.52	133.7	0.16	7.06	97.04	6.77	2.84		
				4:32:10 PM	5.3	28.69	18.91	113.1	0.1	7.12	94.28	6.57	2.74		
			Bottom	4:26:10 PM	8.3	27.8	22.46	70.7	0.1	6.98	87.45	6.06	6.49	6.02	
				4:31:01 PM	7.9	27.87	22.26	115.2	0.38	7.06	86.1	5.97	5.07		
		Mid-flood	Surface	12:33:48 PM	0.9	28.83	17.6	313.5	0.37	7.39	93.76	6.56	2.64	6.03	7.88
				12:37:26 PM	1	28.69	18.32	318.4	0.28	7.38	86.88	6.07	3.35		
			Middle	12:32:35 PM	4.7	28.17	20.88	311.6	0.45	7.34	84.01	5.84	7.71		
				12:36:10 PM	5	28.12	21.07	315.5	0.45	7.35	81.45	5.66	6.39		
			Bottom	12:31:14 PM	8.1	27.65	23.23	225	0.04	7.32	82.4	5.7	13.49	5.52	
				12:35:04 PM	7.8	27.71	22.9	287.6	0.16	7.34	76.96	5.33	13.69		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:25:27 PM	1.3	29.32	18.25	291.9	0.22	7.59	100.03	6.92	2.23	6.25	4.21
				6:28:19 PM	1.1	29.32	18.31	284.8	0.15	7.6	99.63	6.89	2.23		
			Middle	6:24:30 PM	4.9	28.24	21.45	298.2	0.11	7.38	74.42	5.15	3.25		
				6:27:24 PM	4.5	29.22	19.36	289.3	0.2	7.53	87.43	6.02	2.74		
			Bottom	6:23:31 PM	8.1	27.3	24.72	295.7	0.24	7.25	60.92	4.2	7.71	4.24	
				6:26:31 PM	8.1	27.31	24.7	354.5	0.06	7.28	61.82	4.27	7.1		
		Mid-flood	Surface	3:52:39 PM	1.6	29.62	17.85	318	0.49	7.75	105.57	7.28	3.35	6.29	5.26
				3:55:58 PM	1.2	29.6	17.79	323.6	0.48	7.76	100.36	6.93	3.25		
			Middle	3:51:10 PM	4.7	27.83	22.97	329.5	0.32	7.51	81.5	5.63	4.67		
				3:54:59 PM	4.6	28.03	22.3	324.4	0.35	7.53	76.75	5.3	4.16		
			Bottom	3:50:00 PM	8	27.09	25.36	335.5	0.23	7.4	73.83	5.1	8.32	4.86	
				3:53:56 PM	7.9	27.2	24.99	114.3	0.14	7.43	66.81	4.61	7.81		
2009/08/01	Sunny	Mid-ebb	Surface	10:57:33 AM	1	29.55	15.7	130.2	0.58	7.59	93.39	6.53	3.15	6.15	5.26
				11:02:18 AM	1.2	29.15	17.7	124.8	0.46	7.56	97.09	6.75	3.05		
			Middle	10:56:28 AM	4.8	28.32	21.47	128	0.25	7.49	80.19	5.54	2.94		
				11:01:23 AM	4.5	28.44	20.65	120.3	0.46	7.47	83.47	5.78	2.74		
			Bottom	10:55:24 AM	7.7	27.77	24.01	103	0.22	7.56	83.16	5.72	10.25	6.06	
				11:00:13 AM	7.9	27.76	23.99	112.1	0.26	7.55	93.02	6.4	9.43		
		Mid-flood	Surface	9:06:31 PM	1.1	29.83	13.57	256.8	0.08	7.44	88.84	6.25	4.87	5.67	7.20
				9:09:33 PM	1.1	29.84	13.27	248	0.21	7.48	90.85	6.4	4.87		
			Middle	9:05:32 PM	5.3	27.82	24.5	354.1	0.3	7.36	73.13	5.01	4.87		
				9:08:36 PM	5.2	27.81	24.18	1.6	0.22	7.38	72.84	5	4.77		
			Bottom	9:04:21 PM	8.2	27.26	25.73	318.6	0.1	7.27	60.23	4.14	12.58	4.22	
				9:07:35 PM	8.1	27.26	25.74	87.9	0.36	7.3	62.53	4.29	11.26		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:48:35 AM	1.2	28.35	22.39	301.8	0.31	7.66	81.92	5.63	5.48	4.58	8.62
				5:52:14 AM	1	28.4	22.06	312.7	0.3	7.66	78.39	5.39	5.18		
			Middle	5:47:33 AM	4	27.9	25.9	308.7	0.3	7.57	50.45	3.42	8.12		
				5:51:16 AM	3.9	28.02	24.84	302.4	0.28	7.58	57.06	3.89	6.39		
			Bottom	5:46:12 AM	8.2	26.76	28.25	337	0.27	7.53	58.86	4.02	15.92	4.00	
				5:50:10 AM	8.1	26.85	28.1	317.1	0.28	7.55	58.28	3.98	10.65		

Annex D11 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:29:02 PM	1.2	28.22	19.91	139.9	0.78	7.38	101.2	7.06	5.07	6.78	12.14
				12:32:27 PM	1.2	28.17	19.97	138.7	0.68	7.38	95.2	6.65	5.18		
			Middle	12:27:56 PM	4.4	27.9	20.89	131.8	0.71	7.36	98.62	6.88	6.6		
				12:31:32 PM	4	27.91	20.7	133.6	0.71	7.37	93.12	6.51	6.49		
			Bottom	12:26:37 PM	8.1	27.76	22.96	102.4	0.39	7.36	96.55	6.68	25.86	6.37	
				12:30:21 PM	8.1	27.76	22.91	134.3	0.34	7.37	87.46	6.05	23.63		
		Mid-flood	Surface	7:21:48 AM	1.2	27.72	24.8	318.1	0.44	7.56	74.64	5.11	7	4.89	12.64
				7:24:53 AM	1.1	27.72	24.77	318.4	0.4	7.56	71.96	4.93	7		
			Middle	7:20:43 AM	5	27.64	25.58	302.4	0.31	7.56	70.81	4.84	13.59		
				7:23:55 AM	5.1	27.63	25.65	339.8	0.24	7.56	68.32	4.67	13.08		
			Bottom	7:19:32 AM	8	27.57	25.99	332.1	0.2	7.56	72.59	4.95	16.63	4.79	
				7:22:52 AM	8.3	27.56	26.02	320.3	0.38	7.56	67.74	4.62	18.56		
2009/08/08	Cloudy	Mid-ebb	Surface	1:30:01 PM	1.6	29.25	16.56	131.7	0.63	7.47	99.09	6.93	4.47	6.59	15.96
				1:32:12 PM	1.1	29.96	15.24	139.1	0.64	7.5	99.65	6.93	3.86		
			Middle	1:29:21 PM	5.2	28.85	18.75	123.9	0.58	7.38	91.35	6.35	8.62		
				1:31:32 PM	5.2	28.86	18.79	123.5	0.54	7.4	88.71	6.16	7.71		
			Bottom	1:28:43 PM	8.3	28.36	25.15	59	0.17	7.46	86.62	5.86	32.15	5.72	
				1:30:55 PM	8.2	28.35	25.45	59	0.17	7.47	82.42	5.57	38.94		
		Mid-flood	Surface	8:23:52 AM	1.2	28.84	18.1	306.2	0.61	7.5	77.94	5.44	4.87	5.00	13.30
				8:25:58 AM	1.1	28.8	18.41	298.6	0.6	7.49	73.6	5.13	5.18		
			Middle	8:23:06 AM	5.1	28.26	22.31	325	0.33	7.48	69.24	4.77	18.15		
				8:25:17 AM	5	28.19	22.55	311.9	0.45	7.48	67.54	4.65	17.24		
			Bottom	8:22:26 AM	8.2	28.02	23.55	315.6	0.2	7.46	71.46	4.91	17.34	4.86	
				8:24:38 AM	8	28.07	23.3	315.7	0.3	7.48	69.86	4.8	17.04		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	3:16:21 PM	0.7	28.87	16.04	132.1	0.62	7.47	85.64	6.04	3.25	5.40	5.58
				3:19:55 PM	1.2	28.94	17.62	129.6	0.37	7.47	80.34	5.61	3.15		
			Middle	3:15:19 PM	4.9	28.88	20.74	117.7	0.32	7.47	78.23	5.38	4.16		
				3:19:03 PM	5	28.59	24.79	109.7	0.21	7.51	67.53	4.56	4.47		
			Bottom	3:14:16 PM	8.1	28.39	25.85	80.9	0.23	7.48	69.43	4.68	9.43	4.53	
				3:17:58 PM	8	28.42	25.74	80.9	0.23	7.5	64.93	4.37	9.03		
		Mid-flood	Surface	11:39:26 AM	1.3	28.76	22.63	314.8	0.51	7.49	78.06	5.32	3.76	4.83	10.65
				11:42:15 AM	1.4	28.78	22.67	314.8	0.51	7.49	76	5.18	3.86		
			Middle	11:38:19 AM	5.1	28.52	25.52	309.8	0.27	7.48	65.47	4.41	12.58		
				11:41:18 AM	5	28.5	25.46	295.6	0.27	7.48	65.12	4.39	14		
			Bottom	11:37:16 AM	8.1	28.44	26.78	346.2	0.12	7.48	66.62	4.46	14.71	4.36	
				11:40:30 AM	8	28.46	26.71	355.1	0.13	7.5	63.49	4.25	15.01		
2009/08/14	Cloudy	Mid-ebb	Surface	5:05:57 PM	1.1	29.27	16.75	178.5	0.04	7.26	83.41	5.82	3.65	5.42	5.34
				5:08:59 PM	1.6	28.85	18.4	178.5	0.04	7.28	81.56	5.68	3.76		
			Middle	5:08:05 PM	5	28.4	22.3	68.4	0.11	7.25	71.84	4.93	3.55		
				5:04:50 PM	5	28.67	20.11	235.7	0.17	7.26	75.61	5.23	3.55		
			Bottom	5:03:53 PM	7.8	27.84	26.49	44.1	0.14	7.2	60.05	4.07	8.93	4.07	
				5:06:59 PM	8	27.86	26.43	76.2	0.05	7.22	60	4.06	8.62		
		Mid-flood	Surface	2:11:39 PM	1.1	29.21	15.42	312.2	0.38	7.5	97.29	6.85	5.07	5.89	7.75
				2:14:43 PM	1.1	29.18	15.49	312.2	0.38	7.5	93.62	6.59	3.25		
			Middle	2:10:23 PM	5.2	28.38	23.45	302.7	0.43	7.42	74.91	5.11	6.39		
				2:13:41 PM	4.9	28.23	23.21	284.8	0.5	7.42	73.31	5.02	5.89		
			Bottom	2:09:16 PM	7.9	27.99	26.94	317.6	0.15	7.43	74.63	5.03	12.48	4.76	
				2:12:45 PM	7.9	27.99	26.68	297.6	0.1	7.43	66.35	4.48	13.39		

Annex D11 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	10:24:50 AM	1.9	29.42	13.93	127.1	0.58	7.47	97.62	6.9	3.65	5.95	10.01
				10:25:32 AM	1.5	29.4	14.15	127.1	0.58	7.48	97.32	6.88	3.76		
			Middle	10:20:09 AM	5.2	28.12	26.05	105.7	0.51	7.37	75.38	5.09	4.67		
				10:23:40 AM	5.5	28.28	24.84	86.9	0.39	7.38	72.71	4.93	3.15		
			Bottom	10:19:07 AM	7.9	27.83	28.35	106.2	0.27	7.39	71.66	4.8	21.2	4.52	
				10:22:26 AM	8	27.82	28.41	106.2	0.27	7.39	63.1	4.23	23.63		
		Mid-flood	Surface	8:33:12 PM	1.4	30.11	15.87	174.6	0.08	7.37	84.51	5.84	4.26	4.94	6.65
				8:35:51 PM	1.3	30.18	16.38	174.6	0.08	7.45	91.26	6.29	3.96		
			Middle	8:32:10 PM	5.2	28.21	24.54	318.3	0.22	7.16	55	3.74	4.36		
				8:35:05 PM	5.1	28.27	24.22	330.1	0.14	7.21	56.88	3.87	3.86		
			Bottom	8:31:19 PM	8	27.53	27.37	353.3	0.14	7.1	48.16	3.26	11.26	3.19	
				8:34:07 PM	8.1	27.5	27.44	353.3	0.14	7.15	45.97	3.11	12.17		
2009/08/18	Cloudy	Mid-ebb	Surface	12:35:46 PM	1.1	29.46	20.55	139.9	0.79	7.57	82.64	5.63	3.55	4.84	17.55
				12:40:03 PM	1.3	29.46	20.59	139.9	0.79	7.57	83.01	5.65	3.76		
			Middle	12:34:35 PM	4.7	27.94	26.36	122.8	0.62	7.41	59.4	4.02	21.3		
				12:39:04 PM	5	27.93	26.32	132.6	0.57	7.41	60.06	4.07	23.43		
			Bottom	12:33:40 PM	8.2	27.85	26.8	109	0.49	7.41	64.14	4.34	24.75	4.26	
				12:38:04 PM	8.1	27.83	26.83	115.2	0.44	7.42	61.77	4.18	28.5		
		Mid-flood	Surface	5:26:28 PM	1.4	30.04	18.36	302.1	0.68	7.53	75.88	5.18	5.99	5.11	14.76
				5:30:21 PM	5.1	28.66	24.11	312.8	0.77	7.5	82.25	5.57	14.61		
			Middle	5:25:22 PM	5.1	28.51	24.44	309.2	0.7	7.45	62.53	4.24	21.2		
				5:29:33 PM	1.5	30.07	18.24	302.1	0.68	7.55	79.81	5.45	5.58		
			Bottom	5:24:13 PM	8.1	27.83	26.36	300.6	0.17	7.31	50.04	3.39	21.5	3.51	
				5:27:33 PM	7.8	28.11	25.42	300.6	0.17	7.37	53.5	3.63	19.68		
2009/08/21	Sunny	Mid-ebb	Surface	12:32:51 PM	1	30.1	20.5	161.2	0.79	7.46	90.23	6.08	5.89	5.53	18.54
				12:36:31 PM	1.3	29.98	20.89	161.2	0.79	7.44	85.8	5.78	5.68		
			Middle	12:31:46 PM	4.5	29.08	23.29	150.4	0.72	7.4	77.6	5.24	10.04		
				12:35:23 PM	5.1	28.73	24.34	125.5	0.79	7.43	74.27	5.02	13.59		
			Bottom	12:30:25 PM	8.1	28.49	25.34	96.5	0.57	7.44	80.59	5.43	39.14	5.30	
				12:33:58 PM	8.2	28.48	25.4	98	0.56	7.45	76.76	5.17	36.91		
		Mid-flood	Surface	8:01:04 AM	1.1	29.09	22.61	330.9	0.44	7.49	71.91	4.87	6.6	4.65	22.69
				8:05:18 AM	1.4	29.13	22.83	330.9	0.44	7.5	69.53	4.7	6.6		
			Middle	7:59:56 AM	5.1	28.66	24.32	296	0.47	7.48	68.03	4.6	18.66		
				8:04:05 AM	5.2	28.64	24.38	305.1	0.36	7.49	65.65	4.44	19.27		
			Bottom	7:58:31 AM	8	28.42	25.17	286.3	0.28	7.47	69.31	4.68	49.59	4.57	
				8:02:43 AM	8.1	28.48	24.96	292.2	0.19	7.49	65.86	4.45	35.39		
2009/08/23	Sunny	Mid-ebb	Surface	1:45:45 PM	1.2	30.44	22.46	123.3	0.82	7.24	85.2	5.65	5.28	5.40	24.61
				1:48:53 PM	0.8	30.74	22.03	129.2	0.8	7.24	82.41	5.45	5.68		
			Middle	1:44:54 PM	4.9	29.78	23.09	110.7	0.83	7.19	80.61	5.39	8.22		
				1:48:12 PM	5	29.53	23.35	116.2	0.84	7.19	76.15	5.1	9.33		
			Bottom	1:44:01 PM	7.9	28.35	25.78	92.4	0.55	7.12	71.59	4.83	65.31	4.81	
				1:47:26 PM	8.3	28.37	25.71	100.5	0.62	7.15	70.97	4.78	53.85		
		Mid-flood	Surface	9:06:01 AM	1.1	29.32	22.9	309.8	0.63	7.43	71.04	4.79	7.2	4.65	33.84
				9:08:31 AM	1.1	29.37	22.78	309.8	0.63	7.43	68.88	4.64	5.89		
			Middle	9:05:05 AM	5.1	28.9	24.08	312.3	0.61	7.42	69.43	4.68	29.92		
				9:07:45 AM	5.1	28.9	24.13	313.2	0.51	7.43	66.41	4.48	27.18		
			Bottom	9:04:09 AM	7.8	28.39	25.46	288.9	0.26	7.41	69.36	4.68	65.1	4.56	
				9:06:56 AM	7.9	28.35	25.58	283.9	0.39	7.43	65.85	4.44	67.74		

Annex D12 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBD

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:10:48 PM	0.9	29.73	12.32	118.2	0.43	7	109.57	7.78	4.26	6.90	4.94
				4:14:25 PM	1.3	29.56	13.07	116.5	0.47	7.05	104.8	7.43	4.26		
			Middle	4:09:43 PM	5.1	28.64	18.91	137.5	0.12	6.7	91.86	6.4	2.94		
				4:13:30 PM	5.1	28.35	20.2	293.1	0.31	6.81	85.98	5.98	3.55		
			Bottom	4:08:44 PM	8.1	27.84	22.29	60.3	0.13	6.57	85.32	5.92	6.09	5.67	
				4:12:12 PM	7.8	27.82	22.37	64.2	0.14	6.71	78.02	5.41	8.52		
		Mid-flood	Surface	12:50:11 PM	1.3	29.1	16.26	319.3	0.22	7.47	102.77	7.21	3.35	6.41	6.78
				12:53:41 PM	1.3	29.07	16.54	318.2	0.23	7.48	98.49	6.91	2.74		
			Middle	12:48:54 PM	5	27.99	21.62	313.6	0.42	7.35	84.94	5.9	7.3		
				12:52:42 PM	5	28.06	21.3	323.4	0.46	7.37	81.05	5.63	5.78		
			Bottom	12:47:37 PM	8	27.61	23.12	282.5	0.09	7.34	84.01	5.82	10.96	5.59	
				12:51:33 PM	7.9	27.63	23.06	334.7	0.08	7.35	77.34	5.36	10.55		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:13:46 PM	1	29.63	16.36	307.7	0.2	7.62	105.92	7.36	3.05	6.36	4.40
				6:16:48 PM	0.9	29.62	16.65	279.6	0.35	7.63	103.02	7.15	2.94		
			Middle	6:12:40 PM	4.6	28.84	19.57	261	0.23	7.41	84.32	5.84	2.84		
				6:15:48 PM	4.9	28.36	21.07	302.6	0.24	7.36	73.22	5.07	3.25		
			Bottom	6:11:37 PM	8	27.28	24.75	275.7	0.02	7.16	57.41	3.96	7.61	4.07	
				6:14:50 PM	7.9	27.3	24.71	288.8	0.14	7.24	60.51	4.18	6.7		
		Mid-flood	Surface	4:05:42 PM	1.2	29.71	17.19	307.4	0.37	7.8	106.42	7.35	3.55	6.49	4.92
				4:08:38 PM	1	29.7	17.12	327.5	0.45	7.79	100.56	6.95	3.55		
			Middle	4:04:33 PM	4.9	28.53	20.69	297.6	0.12	7.59	88.54	6.12	3.55		
				4:07:41 PM	4.7	28.62	20.41	276	0.3	7.6	80.31	5.55	3.86		
			Bottom	4:03:29 PM	7.9	27.41	24.33	252.1	0.1	7.42	68.54	4.73	7.51	4.65	
				4:06:44 PM	7.9	27.41	24.36	192.2	0.2	7.43	66.16	4.57	7.51		
2009/08/01	Sunny	Mid-ebb	Surface	11:09:38 AM	1.4	29.86	14.46	123.2	0.46	7.61	90.72	6.35	4.06	5.88	4.80
				11:14:08 AM	1.1	29.77	14.8	119.5	0.34	7.59	90.33	6.32	3.35		
			Middle	11:08:36 AM	5.1	28.28	21.35	129.5	0.36	7.5	74.72	5.17	3.55		
				11:13:14 AM	5	28.86	19	114.6	0.32	7.51	81.93	5.69	2.23		
			Bottom	11:07:23 AM	8.5	27.84	23.75	88.5	0.33	7.56	75.07	5.16	9.03	5.30	
				11:12:12 AM	8.1	27.88	23.48	76.5	0.25	7.56	78.82	5.43	6.6		
		Mid-flood	Surface	8:55:49 PM	1	30.1	11.93	331.6	0.08	7.39	89.03	6.29	5.58	5.85	8.05
				8:58:54 PM	1	29.88	10.81	304.1	0.19	7.41	89.04	6.36	5.28		
			Middle	8:54:33 PM	4.9	28.33	22.3	308.8	0.24	7.34	77.53	5.33	5.58		
				8:57:55 PM	4.9	28.2	22.89	8.1	0.16	7.37	78.73	5.41	4.26		
			Bottom	8:53:29 PM	8.1	27.4	25.32	268.2	0.13	7.2	63.82	4.38	14.1	4.37	
				8:56:49 PM	8.2	27.37	25.39	306	0.13	7.26	63.32	4.35	13.49		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	6:02:11 AM	0.8	28.41	22.31	306.1	0.3	7.68	80.6	5.53	5.78	4.47	9.98
				6:05:36 AM	1.5	28.28	23.12	303.7	0.34	7.64	74.32	5.09	5.78		
			Middle	6:01:03 AM	4.2	27.56	26.22	312.3	0.34	7.55	53.96	3.68	6.7		
				6:04:40 AM	4.1	27.43	26.68	316.1	0.32	7.55	52.66	3.59	7.1		
			Bottom	5:59:51 AM	8.2	26.79	28.15	306.3	0.11	7.51	55.18	3.77	18.26	3.78	
				6:03:26 AM	8.1	26.78	28.18	312.1	0.07	7.52	55.5	3.79	16.23		

Annex D12 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:16:55 PM	1.1	28.05	20.83	143.9	0.39	7.32	108.69	7.57	5.48	7.37	9.67
				12:20:01 PM	1	28.06	20.63	137.2	0.5	7.33	101.49	7.08	5.38		
			Middle	12:15:52 PM	3.9	27.95	20.98	135.6	0.5	7.32	110.89	7.73	5.89		
				12:19:10 PM	4	27.98	20.65	152.9	0.43	7.32	101.79	7.11	5.89		
			Bottom	12:14:36 PM	8.1	27.77	23.08	102.2	0.39	7.35	116.68	8.06	17.44	7.56	
				12:18:01 PM	7.5	27.76	23.1	115.2	0.35	7.33	102.1	7.06	17.95		
		Mid-flood	Surface	7:38:27 AM	1.2	27.93	20.64	310.2	0.35	7.53	85.43	5.97	5.68	5.68	7.98
				7:41:30 AM	1.4	27.91	21.29	318.4	0.24	7.54	81.28	5.66	5.68		
			Middle	7:36:58 AM	5.1	27.69	24.28	313.8	0.42	7.56	82.2	5.65	7.71		
				7:40:28 AM	5.3	27.74	23.66	316.5	0.35	7.57	78.83	5.43	7.1		
			Bottom	7:35:45 AM	8.2	27.62	25.52	329.7	0.14	7.57	80.24	5.48	12.48	5.36	
				7:39:27 AM	8	27.68	25.01	335.1	0.12	7.57	76.48	5.24	9.23		
2009/08/08	Cloudy	Mid-ebb	Surface	1:17:24 PM	1.2	29.64	13.71	114.9	0.65	7.43	110.33	7.78	4.26	6.94	18.90
				1:20:02 PM	1.1	29.54	14.35	112.1	0.6	7.45	105.56	7.43	5.18		
			Middle	1:16:39 PM	5	28.56	21.87	88.8	0.53	7.34	92.15	6.33	11.46		
				1:19:19 PM	4.7	28.61	21.36	86.3	0.55	7.37	90.14	6.2	8.72		
			Bottom	1:15:45 PM	8.3	28.32	26.04	75.9	0.56	7.38	90.73	6.11	48.17	5.95	
				1:18:36 PM	7.5	28.32	26.05	82.4	0.58	7.41	85.87	5.78	35.6		
		Mid-flood	Surface	8:34:02 AM	1.4	28.78	18.65	313.3	0.75	7.5	79.41	5.53	5.07	5.15	13.85
				8:36:17 AM	0.9	28.82	18.32	324.6	0.74	7.51	75.38	5.26	5.89		
			Middle	8:33:13 AM	4.7	28.36	21.58	293.8	0.48	7.49	73.24	5.05	11.87		
				8:35:30 AM	4.8	28.24	22.31	303.8	0.51	7.49	69.1	4.76	16.53		
			Bottom	8:32:23 AM	8	28.18	22.78	302.6	0.31	7.48	74.95	5.15	20.99	5.04	
				8:34:51 AM	8	28.14	22.96	272.1	0.25	7.49	71.53	4.92	22.72		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	3:03:24 PM	1.3	28.97	19.4	132	0.22	7.46	76.22	5.27	3.55	4.90	6.05
				3:06:14 PM	0.7	28.96	16.24	132	0.22	7.45	78.13	5.5	3.25		
			Middle	3:02:25 PM	5.1	28.81	23.84	81.6	0.12	7.46	64.52	4.36	6.9		
				3:05:16 PM	4.9	28.79	23.11	158.7	0.32	7.48	65.52	4.45	6.39		
			Bottom	3:01:26 PM	8	28.42	25.76	322.1	0.13	7.45	65.62	4.42	8.32	4.33	
				3:04:16 PM	7.9	28.42	25.74	79.2	0.14	7.49	62.82	4.23	7.91		
		Mid-flood	Surface	11:52:39 AM	1.2	28.82	22.48	308.4	0.45	7.49	74.59	5.08	6.19	4.72	11.82
				11:56:15 AM	1.2	28.82	22.38	311.6	0.52	7.49	74.16	5.05	6.09		
			Middle	11:51:15 AM	4.9	28.5	25.38	306.7	0.42	7.49	64.73	4.36	9.84		
				11:55:13 AM	5.2	28.5	25.45	294.8	0.34	7.49	64.83	4.37	7.71		
			Bottom	11:50:15 AM	8.1	28.4	26.41	355.1	0.13	7.48	67.18	4.51	22.72	4.38	
				11:54:09 AM	7.9	28.42	26.05	343.5	0.15	7.49	63.08	4.24	18.36		
2009/08/14	Cloudy	Mid-ebb	Surface	4:55:08 PM	1.1	29.56	15.38	54.2	0.05	7.22	81.47	5.7	3.55	5.27	5.46
				4:57:38 PM	1.2	29.06	16.97	184.5	0.05	7.2	77.69	5.43	3.76		
			Middle	4:54:06 PM	5.1	28.42	22.31	267.5	0.14	7.24	74.4	5.11	3.45		
				4:56:54 PM	5.2	28.35	22.81	263.7	0.05	7.23	70.62	4.84	3.76		
			Bottom	4:52:57 PM	7.9	27.94	26.16	26.9	0.08	7.21	64.71	4.38	9.43	4.27	
				4:56:04 PM	8.2	27.94	26.16	301.5	0.35	7.2	61.44	4.16	8.83		
		Mid-flood	Surface	2:25:20 PM	1.2	28.81	18.28	306	0.53	7.45	96.53	6.73	4.26	5.85	8.83
				2:28:12 PM	1.1	28.7	17.25	294.5	0.26	7.44	86.9	6.11	4.87		
			Middle	2:23:58 PM	4.9	28.24	23.6	283.1	0.44	7.41	80.96	5.54	6.29		
				2:27:12 PM	5	28.22	23.6	283	0.38	7.41	73.48	5.03	6.6		
			Bottom	2:22:59 PM	8	27.91	26.81	310.2	0.15	7.41	79.21	5.35	15.62	5.07	
				2:26:13 PM	8.1	27.89	26.78	319.4	0.14	7.42	70.85	4.79	15.32		

Annex D12 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	10:33:59 AM	1.1	29.83	12.6	139.2	0.6	7.48	103.02	7.29	3.65	6.42	5.58
				10:37:01 AM	1.4	29.72	13.14	135.5	0.53	7.49	97.02	6.86	3.55		
			Middle	10:32:42 AM	4.7	28.84	20.58	100.9	0.41	7.41	87.15	6	3.05		
				10:36:06 AM	5.7	28.64	22.51	101.5	0.41	7.41	80.85	5.52	2.84		
			Bottom	10:31:45 AM	8.2	27.88	27.9	108.7	0.35	7.38	72.06	4.84	10.85	4.67	
				10:35:11 AM	8	27.91	27.69	95.4	0.34	7.39	66.75	4.49	9.54		
		Mid-flood	Surface	8:23:01 PM	1.4	29.89	15.89	154.8	0.12	7.26	78.63	5.46	4.47	4.81	7.34
				8:25:57 PM	1.2	30.1	13.55	186.7	0.09	7.28	81.84	5.73	4.36		
			Middle	8:22:09 PM	4.9	28.7	22.4	336.6	0.38	7.16	60.28	4.12	4.97		
				8:25:10 PM	5	28.69	22.45	336.6	0.38	7.19	57.22	3.91	5.58		
			Bottom	8:21:12 PM	8	27.68	26.84	264.4	0.14	7	44.8	3.04	12.07	3.07	
				8:23:59 PM	8.1	27.66	26.94	324.8	0.08	7.08	45.78	3.1	12.58		
2009/08/18	Cloudy	Mid-ebb	Surface	12:48:14 PM	1.3	29.3	20.55	167.2	0.62	7.52	76.23	5.21	3.76	4.81	16.37
				12:52:30 PM	1.2	29.27	21.13	133.1	0.46	7.53	83.37	5.68	5.28		
			Middle	12:51:24 PM	5.1	27.88	26.48	116.1	0.35	7.42	64.54	4.37	23.63		
				12:47:09 PM	5	27.92	26.25	128.3	0.37	7.42	58.42	3.96	21.4		
			Bottom	12:46:08 PM	8.1	27.84	26.7	111	0.38	7.41	59.38	4.02	21.91	4.34	
				12:50:26 PM	8.1	27.86	26.63	110.2	0.29	7.43	68.88	4.66	22.21		
		Mid-flood	Surface	5:14:27 PM	1.3	29.97	18.3	332.6	0.29	7.46	83.28	5.7	6.09	4.63	16.97
				5:17:27 PM	1.4	29.84	18.39	332.6	0.29	7.44	76.26	5.22	5.89		
			Middle	5:13:21 PM	5.1	28.32	24.66	303.6	0.36	7.32	56.7	3.85	16.13		
				5:16:27 PM	5	28.21	25.08	319.7	0.64	7.32	55.09	3.74	21.1		
			Bottom	5:12:22 PM	8.1	28.03	25.62	285.8	0.16	7.29	51.11	3.47	27.38	3.55	
				5:15:23 PM	8.1	28.06	25.56	279.5	0.21	7.31	53.5	3.63	25.25		
2009/08/21	Sunny	Mid-ebb	Surface	12:19:24 PM	1.5	29.2	23.08	148	0.88	7.4	79.12	5.34	9.74	5.36	19.52
				12:23:04 PM	1.2	29.37	22.73	148	0.88	7.42	81.23	5.48	7.91		
			Middle	12:17:51 PM	5.1	28.77	24.29	119.6	0.62	7.42	79.95	5.4	12.58		
				12:22:02 PM	5.2	28.73	24.43	121.7	0.68	7.43	77.09	5.2	13.79		
			Bottom	12:16:42 PM	8.1	28.47	25.48	96.1	0.49	7.41	81.06	5.46	35.39	5.38	
				12:20:46 PM	7.9	28.48	25.43	102.8	0.48	7.44	78.7	5.3	37.72		
		Mid-flood	Surface	8:13:49 AM	1	29.2	22.73	328.6	0.56	7.53	74.68	5.05	7.2	4.83	28.97
				8:19:12 AM	1.1	29.2	22.53	306	0.57	7.53	73.16	4.95	6.29		
			Middle	8:12:41 AM	4.1	28.74	24.2	299.6	0.49	7.51	69.16	4.67	21.1		
				8:18:12 AM	5	28.8	24.16	308.9	0.4	7.53	68.61	4.63	16.84		
			Bottom	8:11:33 AM	7.8	28.49	24.94	319.4	0.22	7.5	69.37	4.69	65.71	4.66	
				8:16:52 AM	7.9	28.48	24.99	322.7	0.22	7.51	68.53	4.63	56.69		
2009/08/23	Sunny	Mid-ebb	Surface	1:34:02 PM	1.1	29.65	22.32	117.8	0.83	7.14	89	5.99	6.8	5.45	36.34
				1:36:43 PM	1.3	29.69	22.23	117.8	0.83	7.14	82.15	5.52	6.7		
			Middle	1:33:13 PM	4.9	29.26	23.6	98.9	0.67	7.07	75.07	5.05	14.81		
				1:36:00 PM	4.7	29.26	23.53	103.3	0.8	7.11	77.73	5.23	10.85		
			Bottom	1:32:24 PM	7.9	28.04	26.53	102.4	0.5	7.02	72.53	4.89	82.54	4.75	
				1:35:02 PM	8.1	28.03	26.59	94.2	0.49	7.04	68.37	4.61	96.33		
		Mid-flood	Surface	9:17:58 AM	1.2	29.24	23.21	294.6	0.61	7.45	70.41	4.74	9.64	4.56	49.02
				9:20:26 AM	1	29.2	23.37	292	0.61	7.45	67.5	4.55	11.06		
			Middle	9:17:08 AM	5.3	28.73	24.59	287.1	0.42	7.43	67.94	4.58	46.65		
				9:19:40 AM	4.9	28.72	24.62	299.9	0.47	7.44	64.65	4.36	49.79		
			Bottom	9:16:07 AM	7.6	28.59	24.92	299	0.23	7.42	68.44	4.62	83.96	4.47	
				9:18:57 AM	8	28.54	25.02	286.5	0.18	7.44	63.99	4.32	92.99		

Annex D13 - Baseline Water Quality Monitoring Results

Sampling Station : NM1

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:20:54 PM	1.5	29.88	14.76	89.4	0.65	7.53	102.05	7.13	3.45	5.78	3.92
				6:24:55 PM	1.3	29.92	14.01	100.5	0.67	7.59	100.27	7.03	3.55		
			Middle	6:19:32 PM	19	25.68	29.46	136.8	0.39	7.22	66.18	4.57	2.94		
				6:23:39 PM	18.7	25.74	29.27	101.9	0.27	7.28	63.35	4.38	2.84		
			Bottom	6:18:11 PM	36.1	24.95	31.49	115.6	0.25	7.19	63.71	4.41	5.48	4.29	
				6:22:29 PM	36	24.95	31.48	99.3	0.28	7.26	60.26	4.17	5.28		
		Mid-flood	Surface	10:28:30 AM	1	28.94	17.09	276.8	0.28	7.41	105.01	7.36	2.94	6.21	7.64
				10:35:21 AM	1.2	28.56	19.21	268.4	0.35	7.36	95.48	6.65	2.54		
			Middle	10:26:32 AM	19.5	26	28.68	277.2	0.44	7.16	80.08	5.53	2.64		
				10:34:02 AM	19.3	25.72	29.41	273.4	0.61	7.24	76.69	5.3	4.06		
			Bottom	10:24:49 AM	36.2	25.32	30.59	264.9	0.5	7.1	76.85	5.31	16.63	5.28	
				10:32:41 AM	34.7	25.29	30.64	279	0.54	7.21	75.82	5.24	17.04		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:12:11 PM	0.9	28.14	24.03	193.2	0.22	7.58	108.69	7.43	2.64	4.95	4.15
				8:16:11 PM	1.3	28.08	23.64	220.5	0.25	7.57	96.88	6.64	2.34		
			Middle	8:10:46 PM	19.2	24.7	32.24	219.1	0.08	7.19	41.53	2.87	4.16		
				8:14:59 PM	19.1	24.69	32.24	117.4	0.09	7.15	41.43	2.87	3.86		
			Bottom	8:09:22 PM	36	24.45	32.89	238.4	0.13	7.26	40.33	2.79	5.48	2.96	
				8:13:32 PM	36.2	24.43	32.94	239.8	0.15	7.16	45.14	3.12	6.39		
		Mid-flood	Surface	1:59:47 PM	1	28.52	20.92	306.1	0.26	7.43	94.68	6.54	2.03	5.37	4.43
				2:03:57 PM	1.1	28.73	20.36	276.4	0.25	7.47	89.08	6.15	2.03		
			Middle	1:58:05 PM	19.6	25.28	30.72	258.2	0.47	7.2	67.09	4.63	3.55		
				2:02:41 PM	19	25.13	31.11	213.6	0.16	7.21	59.97	4.14	3.55		
			Bottom	1:56:35 PM	35.6	24.75	32.13	251.7	0.28	7.16	67.58	4.67	7.71	4.42	
				2:01:22 PM	36	24.75	32.13	265.9	0.35	7.19	60.15	4.16	7.71		
2009/08/01	Sunny	Mid-ebb	Surface	9:07:41 AM	1.7	28.92	19.38	91.4	0.56	7.58	100.99	6.99	1.63	5.49	3.30
				9:11:30 AM	1.8	28.84	20	84	0.7	7.61	98.61	6.81	1.53		
			Middle	9:06:22 AM	18.9	25.37	30.97	85.3	0.32	7.28	61.04	4.2	2.84		
				9:10:13 AM	19.3	25.39	30.94	80	0.25	7.32	57.55	3.96	3.15		
			Bottom	9:05:05 AM	35.8	24.57	32.81	43.9	0.15	7.21	60.02	4.15	4.77	3.98	
				9:09:02 AM	36.1	24.54	32.84	63.1	0.09	7.22	55.03	3.8	5.89		
		Mid-flood	Surface	10:43:58 PM	1.4	29.16	19.23	126.3	0.26	7.68	102.77	7.09	1.53	4.89	5.85
				10:47:53 PM	1	29.17	19.3	123	0.42	7.67	99.47	6.86	1.63		
			Middle	10:42:36 PM	20.2	24.88	31.98	162.3	0.05	7.16	40.77	2.81	4.57		
				10:46:44 PM	20.2	24.91	31.91	57.6	0.13	7.2	40.67	2.81	4.77		
			Bottom	10:41:06 PM	36.8	24.59	32.67	300.2	0.11	7.15	38.76	2.68	10.45	2.70	
				10:45:32 PM	36.7	24.58	32.67	291.8	0.11	7.18	39.26	2.71	12.17		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	3:58:43 AM	0.9	27.64	25.21	288.6	0.17	7.63	78.59	5.38	1.83	4.25	8.93
				4:06:20 AM	1.3	27.64	25.16	248.4	0.1	7.65	75.83	5.19	1.83		
			Middle	3:57:23 AM	20.7	25.69	30.76	265.1	0.34	7.42	47.73	3.27	4.57		
				4:05:06 AM	20	25.67	30.76	277.2	0.4	7.44	45.95	3.15	4.97		
			Bottom	3:55:50 AM	37.2	25.14	32.01	259	0.21	7.35	38.78	2.67	17.85	2.69	
				4:03:36 AM	36.1	25.19	31.92	268.5	0.34	7.38	39.51	2.71	22.51		

Annex D13 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:12:54 PM	0.9	28.29	21.55	104.5	0.82	7.54	97.76	6.75	3.76	6.14	8.39
				2:18:22 PM	0.8	28.38	21.27	104.3	0.9	7.56	93.86	6.49	3.55		
			Middle	2:11:22 PM	18.9	27.42	26.31	76.9	0.59	7.51	85.84	5.86	6.19		
				2:17:01 PM	19.4	27.44	26.21	90.4	0.58	7.51	79.89	5.46	7		
			Bottom	2:10:04 PM	35.2	27.07	27.85	112.1	0.53	7.5	85.85	5.85	10.35	5.67	
				2:15:35 PM	36	27.09	27.73	69.2	0.45	7.5	80.49	5.48	19.47		
		Mid-flood	Surface	5:35:27 AM	1.3	27.72	23.57	302.8	0.16	7.52	74.41	5.13	4.47	4.79	7.80
				5:39:53 AM	1.3	27.74	23.18	280.6	0.36	7.52	76.87	5.31	4.26		
			Middle	5:34:13 AM	18.4	27.14	27.76	291.4	0.52	7.53	64.27	4.37	5		
				5:38:35 AM	19.2	27.14	27.76	263	0.39	7.53	64.15	4.36	5.48		
			Bottom	5:32:58 AM	36	26.96	28.23	246.2	0.51	7.51	61.49	4.19	14	4.22	
				5:37:15 AM	36.5	26.97	28.19	245	0.53	7.52	62.27	4.24	13.59		
2009/08/08	Cloudy	Mid-ebb	Surface	3:14:46 PM	1.1	29.4	16.74	97.6	0.75	7.45	93.89	6.54	4.36	6.06	15.23
				3:21:21 PM	1.1	29.74	15.8	100.7	0.71	7.49	93.91	6.54	8.83		
			Middle	3:13:35 PM	18	28.45	22.05	99.7	0.76	7.36	82.51	5.67	5.68		
				3:20:12 PM	18.1	28.37	22.01	99.7	0.89	7.36	79.47	5.47	9.94		
			Bottom	3:12:25 PM	35.8	27.6	28.55	90.7	0.77	7.41	79.36	5.33	30.02	5.25	
				3:18:33 PM	36.2	27.63	28.28	86.9	0.86	7.41	76.89	5.17	32.55		
		Mid-flood	Surface	6:44:21 AM	1.2	28.77	19.18	297.8	0.34	7.4	70.86	4.92	4.57	4.54	13.68
				6:49:10 AM	1.2	28.85	18.31	292.5	0.29	7.41	72.09	5.02	4.57		
			Middle	6:42:54 AM	18.7	27.64	26.87	278.9	0.65	7.42	61.32	4.16	5.07		
				6:47:52 AM	19.3	27.61	26.96	269.8	0.7	7.42	60.04	4.07	4.87		
			Bottom	6:41:45 AM	36.1	27.54	28.32	267.3	0.37	7.43	59.31	4	25.25	3.95	
				6:46:45 AM	36	27.54	28.33	269.9	0.46	7.44	57.93	3.9	37.72		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:09:11 PM	1.3	28.65	24.06	90.6	0.58	7.61	75.82	5.13	2.54	4.60	4.92
				5:23:06 PM	1.2	28.75	23.67	93.2	0.53	7.61	73.12	4.95	2.34		
			Middle	5:07:30 PM	19.1	27.41	29.11	124	0.28	7.56	62.7	4.21	5.07		
				5:21:45 PM	19.4	27.47	28.84	81	0.31	7.57	60.9	4.1	3.86		
			Bottom	5:05:58 PM	36	26.75	31.14	41.3	0.22	7.54	58.49	3.93	7.71	3.84	
				5:20:30 PM	35.9	26.78	31.04	65.8	0.26	7.55	55.69	3.74	8.01		
		Mid-flood	Surface	9:42:07 AM	1.3	28.71	23.95	274.4	0.41	7.46	80.74	5.47	3.55	4.94	6.55
				9:46:48 AM	1.1	28.71	23.77	279.8	0.46	7.47	75.54	5.12	2.74		
			Middle	9:40:47 AM	19.3	27.36	29.7	263.9	0.62	7.43	71.26	4.78	4.57		
				9:45:37 AM	19	27.4	29.56	271.3	0.57	7.44	65.54	4.4	4.47		
			Bottom	9:39:37 AM	35.5	27.12	30.5	260.9	0.54	7.42	72.97	4.89	12.07	4.59	
				9:44:14 AM	36.2	27.13	30.46	265	0.38	7.43	63.86	4.28	11.87		
2009/08/14	Cloudy	Mid-ebb	Surface	6:43:09 PM	0.9	28.96	19.43	73.1	0.31	7.44	91.57	6.33	2.03	4.95	4.84
				6:47:15 PM	1.3	28.94	20.54	66.2	0.38	7.43	88.87	6.11	2.34		
			Middle	6:41:33 PM	19.1	25.98	31.49	303	0.09	7.25	54.67	3.71	4.87		
				6:45:49 PM	19.1	25.98	31.47	330.6	0.15	7.27	53.69	3.65	4.77		
			Bottom	6:40:05 PM	36	25.55	32.51	281.6	0.09	7.24	53.51	3.64	7.2	3.61	
				6:44:39 PM	36.2	25.55	32.48	283.4	0.12	7.27	52.54	3.58	7.81		
		Mid-flood	Surface	12:22:38 PM	1.3	28.35	20.92	281.6	0.39	7.42	83.9	5.81	2.54	4.85	7.66
				12:27:59 PM	1	28.36	20.61	265.1	0.42	7.44	79.96	5.55	2.54		
			Middle	12:21:01 PM	19.4	26.3	30.98	268.8	0.65	7.34	62.21	4.22	7		
				12:26:28 PM	19	26.32	30.89	264	0.72	7.37	56.5	3.83	6.39		
			Bottom	12:19:23 PM	36	26.04	31.73	269.8	0.48	7.32	63.82	4.33	12.88	4.04	
				12:25:04 PM	36.3	26.03	31.74	263.8	0.45	7.35	55.22	3.74	14.61		

Annex D13 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:13:36 AM	1.3	29.19	17.89	93.8	0.89	7.39	95.05	6.6	2.64	5.44	4.64
				8:23:20 AM	1.3	29.11	17.04	91.6	0.65	7.43	94.56	6.61	2.54		
			Middle	8:12:12 AM	19	26.12	30.85	96	0.45	7.2	65.16	4.43	3.35		
				8:20:58 AM	17.5	26.15	30.8	97.3	0.4	7.23	60.34	4.1	3.25		
			Bottom	8:10:52 AM	36	24.88	33.25	92.6	0.26	7.15	62.39	4.28	6.29	3.95	
				8:25:08 AM	36.2	24.98	33.09	72.4	0.3	7.23	52.78	3.61	9.74		
		Mid-flood	Surface	10:08:03 PM	1.2	29.92	18.76	103.5	0.27	7.57	97.7	6.67	2.94	4.75	6.36
				10:12:37 PM	1.1	29.07	21.47	95.1	0.18	7.49	87.62	5.98	3.15		
			Middle	10:06:35 PM	18.3	25.66	31.61	264	0.07	7.2	45.86	3.13	5.78		
				10:10:58 PM	18	25.81	31.28	350.1	0.04	7.22	47.18	3.22	5.58		
			Bottom	10:05:06 PM	35.7	25.13	32.62	248.5	0.04	7.18	41.52	2.84	10.04	2.88	
				10:09:36 PM	35.6	25.15	32.58	267.5	0.12	7.19	42.7	2.92	10.65		
2009/08/18	Cloudy	Mid-ebb	Surface	10:34:15 AM	1.2	28.94	21.87	91.7	0.87	7.57	68.64	4.68	2.03	3.97	14.54
				10:41:47 AM	1.1	29.27	21.23	86.8	0.79	7.58	69.17	4.71	2.03		
			Middle	10:32:42 AM	19	26.56	29.34	98.5	0.69	7.32	47.31	3.22	5.48		
				10:40:29 AM	19.1	26.63	29.25	101.4	0.68	7.35	48.08	3.27	5.48		
			Bottom	10:31:21 AM	35.9	25.27	32.18	77.6	0.61	7.23	41.83	2.87	35.09	2.85	
				10:39:06 AM	35.6	25.29	32.1	81.4	0.62	7.25	41.15	2.82	37.12		
		Mid-flood	Surface	7:26:12 PM	1.3	27.24	28.21	245.3	1.11	7.55	58.66	3.97	8.72	3.43	15.65
				7:33:54 PM	1.3	27.01	28.78	257.9	1.13	7.58	55.01	3.73	10.04		
			Middle	7:24:45 PM	19.2	25.95	30.73	253.1	0.69	7.4	43.33	2.96	14.81		
				7:32:35 PM	19.1	26.11	30.48	276.5	0.71	7.46	44.56	3.04	16.43		
			Bottom	7:23:16 PM	36.1	25.76	31.07	301.5	0.51	7.38	40.07	2.74	20.18	2.68	
				7:31:11 PM	35.7	25.78	31.05	273.3	0.63	7.43	38.28	2.62	23.73		
2009/08/21	Sunny	Mid-ebb	Surface	2:24:04 PM	1.1	29.44	23.11	89.2	1.01	7.46	89.27	6	5.99	5.56	14.08
				2:32:22 PM	1.5	29.5	23.26	92	1	7.48	84.87	5.69	6.19		
			Middle	2:30:38 PM	19.1	28.14	25.86	93.9	0.73	7.39	76.07	5.14	12.17		
				2:22:17 PM	18.9	28.14	25.88	93.8	0.82	7.38	79.97	5.41	13.49		
			Bottom	2:21:01 PM	36.2	26.42	29.83	95.3	0.64	7.33	79.13	5.39	22.21	5.26	
				2:29:23 PM	35.5	26.48	29.67	122.1	0.49	7.34	75.32	5.13	24.44		
		Mid-flood	Surface	6:06:29 AM	1.2	29.05	23.69	281.1	0.58	7.41	68.17	4.6	5.78	4.44	16.75
				6:15:16 AM	1	29.09	23.23	290.8	0.44	7.43	69.36	4.68	4.87		
			Middle	6:05:01 AM	18.9	27.2	28.31	255.2	1.01	7.38	62.04	4.2	7.2		
				6:14:00 AM	18.2	27.37	27.78	268.1	1.33	7.4	62.94	4.27	7.2		
			Bottom	6:03:28 AM	36	26.53	29.65	257.5	0.68	7.34	57.2	3.89	38.33	3.86	
				6:12:27 AM	36	26.29	30	265.2	0.82	7.34	56.03	3.82	37.12		
2009/08/23	Sunny	Mid-ebb	Surface	3:26:41 PM	1.3	29.56	23.6	96.1	1.04	7.33	82.88	5.54	5.58	5.11	12.48
				3:33:21 PM	1.4	29.41	24	82.5	0.84	7.34	75.99	5.08	5.99		
			Middle	3:25:24 PM	19.2	28.23	26.6	104.6	0.61	7.24	75.26	5.06	5.89		
				3:32:13 PM	19.3	28.02	26.99	97.3	0.68	7.27	70.91	4.77	5.99		
			Bottom	3:24:19 PM	35.7	26.5	29.79	88.3	0.54	7.18	69.51	4.73	23.02	4.56	
				3:30:29 PM	36	26.5	29.76	84.3	0.49	7.19	64.44	4.38	28.4		
		Mid-flood	Surface	7:28:29 AM	1.3	28.89	24.3	275.4	0.81	7.3	70.48	4.75	6.8	4.51	25.34
				7:34:18 AM	1.2	28.98	23.97	291.1	0.53	7.32	69.47	4.68	6.39		
			Middle	7:27:16 AM	19.1	27.26	28.3	265	1.05	7.26	65.17	4.41	21.5		
				7:33:07 AM	19.3	27.18	28.45	270.6	0.9	7.27	62	4.2	17.34		
			Bottom	7:26:09 AM	35.9	27.01	28.85	271.9	0.61	7.25	64.6	4.38	57.5	4.32	
				7:31:58 AM	36.2	26.99	28.89	262.2	0.51	7.27	62.71	4.25	42.49		

Annex D14 - Baseline Water Quality Monitoring Results

Sampling Station : NM2

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	5:56:16 PM	1.3	29.72	14.45	94.1	0.47	7.48	106.38	7.46	3.55	6.61	3.01
				5:59:18 PM	1.2	29.75	14.02	96.2	0.57	7.51	103.06	7.24	3.65		
			Middle	5:55:03 PM	6.5	28.2	21.07	89.4	0.36	7.3	87.58	6.08	3.05		
				5:58:19 PM	6.3	28.13	21.25	94.6	0.39	7.33	81.7	5.67	3.25		
			Bottom	5:53:56 PM	10.1	26.66	26.48	107.2	0.26	7.24	82.77	5.72	2.54	5.57	
				5:57:25 PM	10.4	26.85	25.69	114.7	0.28	7.3	78.21	5.41	2.03		
		Mid-flood	Surface	10:59:20 AM	1.1	29.05	17.73	292.9	0.47	7.36	106.41	7.41	3.15	6.86	11.87
				11:05:10 AM	1.1	29.03	17.6	296.1	0.44	7.38	105	7.32	2.84		
			Middle	10:57:56 AM	6	28	21.95	294.2	0.71	7.27	92.04	6.38	5.89		
				11:04:03 AM	6.1	27.42	23.99	273.6	0.42	7.3	91.52	6.33	3.96		
			Bottom	10:56:18 AM	10.3	27.02	25.35	279.2	0.51	7.22	93.54	6.46	31.03	6.48	
				11:03:11 AM	10.3	26.97	25.55	298.8	0.58	7.3	94.08	6.5	24.34		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	7:41:07 PM	1.2	29.27	18.44	23.5	0.26	7.72	98.16	6.79	2.84	5.82	2.71
				7:44:11 PM	1.1	29.2	18.71	42.3	0.13	7.71	97.07	6.71	2.54		
			Middle	7:40:06 PM	5.9	27.23	25.21	359.1	0.13	7.47	67.94	4.68	2.23		
				7:43:10 PM	6	27.4	24.7	281.8	0.16	7.49	74.15	5.11	2.13		
			Bottom	7:38:59 PM	10.1	25.97	28.85	308.3	0.06	7.37	59.24	4.09	3.45	4.09	
				7:42:08 PM	10.4	25.93	28.93	160.6	0.43	7.39	59.24	4.09	3.05		
		Mid-flood	Surface	2:26:32 PM	0.9	29.22	17.99	267.6	0.07	7.59	106.07	7.36	2.44	6.07	6.65
				2:29:41 PM	1.1	28.96	18.73	282.5	0.13	7.54	94.63	6.57	2.64		
			Middle	2:25:03 PM	6	27.39	24.53	310.8	0.2	7.31	79.36	5.48	4.06		
				2:28:38 PM	6	27.41	24.54	305.7	0.31	7.32	70.34	4.85	3.45		
			Bottom	2:23:39 PM	9.9	26.64	26.92	240.8	0.12	7.36	87.03	6	12.07	5.73	
				2:27:33 PM	9.7	26.51	27.32	307.6	0.2	7.36	79.24	5.46	15.21		
2009/08/01	Sunny	Mid-ebb	Surface	9:37:53 AM	1.5	28.66	20.22	80.8	0.43	7.42	88.96	6.15	1.63	6.22	2.27
				9:40:44 AM	0.9	28.93	19.15	84.2	0.58	7.43	87.91	6.09	1.73		
			Middle	9:36:33 AM	5.6	27.96	23.88	114.7	0.26	7.48	93.34	6.4	2.44		
				9:39:51 AM	6.3	27.97	24.17	119.4	0.32	7.51	91.15	6.24	2.34		
			Bottom	9:35:29 AM	10.2	27.37	26.17	115.2	0.32	7.52	99.79	6.82	2.64	6.51	
				9:38:50 AM	10.2	27.33	26.18	102.5	0.27	7.48	90.64	6.2	2.84		
		Mid-flood	Surface	10:16:38 PM	1.1	29.71	16.85	50.9	0.21	7.68	106.14	7.35	2.34	6.88	2.96
				10:19:47 PM	1.3	29.58	17.84	76.5	0.07	7.68	106.64	7.36	2.03		
			Middle	10:15:37 PM	6	27.56	26.01	317.7	0.3	7.56	93.12	6.35	3.05		
				10:18:40 PM	6.1	28.08	24.43	316.5	0.22	7.62	94.52	6.45	2.54		
			Bottom	10:14:33 PM	10.2	26.16	29.33	331.8	0.26	7.39	73.79	5.06	4.06	4.97	
				10:17:43 PM	10.2	26.09	29.48	326.1	0.26	7.37	70.99	4.87	3.76		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	4:29:04 AM	1.1	28.03	23.6	341.8	0.29	7.67	77.09	5.29	3.45	4.53	4.65
				4:32:14 AM	0.9	27.94	23.78	13.6	0.24	7.64	68.95	4.73	3.86		
			Middle	4:27:57 AM	6.1	27.22	26.95	345.1	0.15	7.58	59.25	4.04	5.78		
				4:31:15 AM	6.2	27.17	27.08	315	0.23	7.57	59.27	4.05	5.48		
			Bottom	4:26:45 AM	10.3	26.33	29.58	285.1	0.38	7.58	65.59	4.48	4.97	4.42	
				4:30:08 AM	10.4	26.44	29.26	291.5	0.47	7.58	63.8	4.36	4.36		

Annex D14 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged DO (mg/L)	Depth-averaged Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	1:46:22 PM	1.1	28.17	21.36	95.1	0.93	7.49	97.8	6.78	4.36	6.42	6.71
				1:51:36 PM	1.2	28	22.06	92	1.03	7.49	94.1	6.51	4.57		
			Middle	1:45:21 PM	6.1	27.96	25.26	87.6	0.59	7.5	90.8	6.18	6.19		
				1:50:41 PM	6.2	27.89	24.65	92.1	0.78	7.49	90.65	6.2	5.68		
			Bottom	1:44:12 PM	10	27.5	26.3	101.2	0.52	7.5	93.18	6.35	10.04	6.30	
				1:49:45 PM	10	27.62	26.14	101.2	0.52	7.5	91.65	6.24	9.43		
		Mid-flood	Surface	6:01:55 AM	1.3	27.82	22.04	262.9	0.36	7.53	78.99	5.49	4.97	5.30	5.33
				6:05:18 AM	1.4	27.82	22.12	294.2	0.46	7.53	78.46	5.45	4.97		
			Middle	6:00:51 AM	5.9	27.78	23.59	280.9	0.48	7.54	75.02	5.17	5.38		
				6:04:24 AM	6	27.79	23.54	284.1	0.57	7.53	73.91	5.09	6.09		
			Bottom	5:59:48 AM	10	27.47	26.49	290.8	0.36	7.56	69.57	4.74	5.07	4.56	
				6:03:29 AM	10.2	27.34	27.07	260.7	0.42	7.55	64.29	4.38	5.48		
2009/08/08	Cloudy	Mid-ebb	Surface	2:48:43 PM	1.3	29.12	19.76	90.4	0.95	7.42	88.97	6.12	4.26	5.57	12.51
				2:51:34 PM	1.3	29.07	20.63	87.6	0.93	7.42	84.19	5.77	4.67		
			Middle	2:47:57 PM	6.1	28.06	24.05	96.6	0.7	7.37	77.4	5.29	5.28		
				2:50:45 PM	6.3	28.05	24.12	99.1	0.67	7.38	74.31	5.08	4.87		
			Bottom	2:47:04 PM	10.6	27.85	25.46	96.2	0.59	7.38	76.04	5.18	29.41	5.08	
				2:49:45 PM	9.7	27.83	25.57	97.1	0.51	7.38	73.14	4.98	26.57		
		Mid-flood	Surface	7:10:58 AM	1.2	28.97	17.09	289.8	0.64	7.46	80.55	5.64	4.57	5.21	5.63
				7:14:27 AM	1.2	28.97	17.28	313.6	0.6	7.46	77.15	5.4	4.67		
			Middle	7:09:40 AM	6.2	28.54	21.11	269.2	0.42	7.42	71.59	4.94	5.89		
				7:13:42 AM	6.1	28.72	20.4	267.2	0.43	7.43	70.51	4.87	5.68		
			Bottom	7:09:01 AM	10.3	27.77	25.68	282.6	0.53	7.45	75.71	5.16	7.2	4.98	
				7:13:03 AM	10.2	27.82	25.15	283.3	0.58	7.45	70.2	4.79	5.78		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:42:32 PM	1.1	28.8	21.89	78.5	0.46	7.58	82	5.61	2.44	5.10	3.25
				4:45:23 PM	1.3	28.79	21.96	107.5	0.37	7.57	80	5.47	2.34		
			Middle	4:41:19 PM	5.9	28.55	25.01	101.3	0.32	7.57	71.69	4.84	3.76		
				4:44:23 PM	6	28.45	25.5	83	0.4	7.57	66.29	4.47	4.77		
			Bottom	4:40:11 PM	9.9	28.15	26.7	101.6	0.25	7.56	71.19	4.79	3.05	4.70	
				4:43:26 PM	9.9	28.22	26.53	88.8	0.24	7.57	68.49	4.61	3.15		
		Mid-flood	Surface	10:08:00 AM	1	28.69	23.03	275.4	0.63	7.5	82.89	5.64	2.94	5.24	8.77
				10:12:34 AM	1.2	28.69	23.02	270.6	0.57	7.5	82.41	5.61	6.8		
			Middle	10:07:06 AM	6.1	28.54	25.59	286.1	0.39	7.49	73.23	4.93	6.39		
				10:11:28 AM	6.1	28.54	25.83	278.1	0.36	7.5	70.96	4.77	10.04		
			Bottom	10:06:16 AM	10	28.52	26.12	301.4	0.4	7.49	74.96	5.03	12.07	5.02	
				10:10:19 AM	10	28.52	26.17	301.4	0.4	7.5	74.56	5	14.4		
2009/08/14	Cloudy	Mid-ebb	Surface	6:19:33 PM	1.2	29.03	19.54	94	0.17	7.41	90.38	6.24	2.44	5.35	3.12
				6:16:30 PM	1.2	28.88	20.04	122.4	0.17	7.38	89.59	6.18	2.44		
			Middle	6:15:12 PM	6	27.4	27.28	329	0.02	7.29	67.45	4.58	3.05		
				6:18:33 PM	5.9	27.56	26.89	218.1	0.03	7.3	64.73	4.39	3.25		
			Bottom	6:14:06 PM	10	26.81	29.22	337.7	0.15	7.28	67.33	4.57	3.96	4.51	
				6:17:32 PM	10.1	26.86	29.03	337.7	0.15	7.3	65.43	4.44	3.55		
		Mid-flood	Surface	12:49:42 PM	1.3	28.61	19.05	291.7	0.44	7.45	95.41	6.65	2.64	5.57	6.92
				12:56:09 PM	1.1	28.49	20.16	283.7	0.5	7.44	86.71	6.02	2.84		
			Middle	12:48:33 PM	5.7	27.96	25.67	284.8	0.48	7.4	75.29	5.11	4.26		
				12:55:04 PM	5.9	27.91	25.91	270	0.45	7.4	66.51	4.51	5.38		
			Bottom	12:47:35 PM	10.2	27.58	27.35	276.9	0.42	7.4	77.68	5.26	11.36	4.93	
				12:50:58 PM	9.9	27.44	27.81	276.9	0.42	7.39	67.93	4.6	15.01		

Annex D14 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	8:55:11 AM	1.2	29.4	14.84	91	0.52	7.43	117.53	8.27	2.84	6.92	4.18
				8:57:56 AM	1	29.44	14.38	92.2	0.59	7.43	106.52	7.51	3.05		
			Middle	8:54:05 AM	6	27.81	25.85	109	0.51	7.3	93	6.32	3.55		
				8:57:08 AM	6.2	27.82	25.95	107	0.49	7.29	81.9	5.57	3.15		
			Bottom	8:53:05 AM	10.4	27.07	28.41	97.8	0.38	7.31	103.7	7.04	6.9	6.33	
				8:56:17 AM	9.5	27.3	27.88	101.8	0.51	7.27	82.7	5.61	5.58		
		Mid-flood	Surface	9:40:44 PM	1.3	30.07	17.16	101.8	0.27	7.58	97.74	6.72	3.05	5.66	3.94
				9:43:41 PM	1.4	30.2	17.01	96.9	0.31	7.6	101.54	6.97	3.05		
			Middle	9:39:46 PM	6.1	27.72	26.34	3.4	0.17	7.36	71.81	4.88	3.35		
				9:42:45 PM	6.4	26.98	28.29	14.4	0.18	7.3	59.86	4.07	3.96		
			Bottom	9:38:53 PM	9.9	26.15	30.52	301.6	0.14	7.24	55.35	3.77	4.87	3.75	
				9:41:49 PM	10	26.14	30.51	309.6	0.11	7.24	54.74	3.73	5.38		
2009/08/18	Cloudy	Mid-ebb	Surface	11:12:31 AM	1.5	29.03	22.98	92.2	0.9	7.53	72.59	4.91	2.64	4.13	6.36
				11:16:16 AM	1.3	29.3	22.22	97.3	0.85	7.54	70.3	4.76	2.94		
			Middle	11:11:22 AM	5.9	27.26	28.21	98.9	0.69	7.35	51.02	3.46	6.09		
				11:15:29 AM	6.4	27.52	28.09	94.2	0.8	7.37	50.27	3.39	7.71		
			Bottom	11:10:23 AM	10.1	26.91	28.71	111	0.52	7.38	58.94	4	9.54	3.92	
				11:14:35 AM	10.4	26.97	28.71	108.5	0.53	7.37	56.43	3.83	9.23		
		Mid-flood	Surface	6:52:59 PM	1.4	29.45	23.06	278.1	0.51	7.71	71.7	4.82	3.55	3.81	7.36
				6:55:46 PM	1.5	29.27	23.44	280.2	0.48	7.69	72.43	4.87	4.06		
			Middle	6:51:52 PM	5.9	27.37	28.04	298.3	0.42	7.42	40.22	2.72	7.41		
				6:54:47 PM	5.8	27.34	28.09	296.5	0.38	7.42	41.88	2.83	7.61		
			Bottom	6:50:55 PM	9.8	26.79	29.31	283.6	0.31	7.41	39.96	2.71	10.65	2.75	
				6:53:55 PM	9.8	26.81	29.24	294.8	0.35	7.41	41.18	2.79	10.85		
2009/08/21	Sunny	Mid-ebb	Surface	1:57:40 PM	1.4	29.3	23.38	83.3	1.04	7.5	79.77	5.36	5.07	5.05	8.43
				2:01:07 PM	1.3	29.29	23.33	91	1.01	7.49	76.51	5.15	5.07		
			Middle	1:56:21 PM	5.8	28.5	25.85	96.8	0.94	7.47	73.21	4.92	9.43		
				2:00:01 PM	6.2	28.44	26.27	96.4	0.93	7.47	71.02	4.77	8.72		
			Bottom	1:55:11 PM	9.7	27.78	26.79	93.8	0.62	7.45	73.71	4.99	12.17	4.87	
				1:59:01 PM	9.9	27.69	27.24	101.1	0.69	7.45	70.26	4.75	10.14		
		Mid-flood	Surface	6:40:09 AM	1.5	29.08	23.28	285.3	0.78	7.44	72.73	4.91	4.67	4.83	9.22
				6:36:46 AM	1.4	29.04	23.1	281.8	0.79	7.45	74.15	5.02	4.47		
			Middle	6:35:41 AM	6	28.83	24.6	283.6	0.75	7.45	70.42	4.74	7.61		
				6:39:08 AM	6.2	28.84	24.55	276.4	0.69	7.44	68.71	4.63	8.12		
			Bottom	6:34:26 AM	9.7	27.69	27.15	298.6	0.65	7.42	67.77	4.58	14.71	4.55	
				6:38:06 AM	10.2	27.45	27.61	294.8	0.57	7.42	66.55	4.51	15.72		
2009/08/23	Sunny	Mid-ebb	Surface	3:02:31 PM	1.4	29.62	22.96	92.8	0.83	7.34	83.32	5.59	6.19	5.14	6.01
				3:05:31 PM	1.3	29.63	22.97	89.8	0.82	7.33	79.51	5.33	6.09		
			Middle	3:01:43 PM	6.1	28.2	26.18	87.8	0.52	7.26	73.61	4.96	5.89		
				3:04:41 PM	6.2	28.18	26.18	85.4	0.54	7.26	69.34	4.68	5.89		
			Bottom	3:00:56 PM	10.2	27.85	27.18	107.1	0.38	7.27	75.91	5.12	5.89	4.92	
				3:03:59 PM	10.2	27.82	27.22	93.7	0.33	7.25	69.84	4.71	6.09		
		Mid-flood	Surface	7:54:59 AM	1.3	29.06	23.75	283.6	0.89	7.34	77.26	5.21	6.19	4.96	12.61
				7:57:13 AM	1.3	29.09	23.64	279.9	0.84	7.34	73.79	4.97	6.39		
			Middle	7:54:04 AM	6.2	28.66	25.11	281.9	0.73	7.33	72.68	4.89	11.06		
				7:56:26 AM	6.2	28.62	25.18	276.7	0.67	7.34	70.87	4.77	12.17		
			Bottom	7:53:16 AM	9.8	28.6	25.24	292.6	0.59	7.34	75.24	5.07	17.75	4.91	
				7:55:47 AM	9.8	28.47	25.56	292.6	0.59	7.34	70.29	4.74	22.11		

Annex D15 - Baseline Water Quality Monitoring Results

Sampling Station : NM3

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:48:56 PM	0.9	30.1	12.83	102.3	0.57	7.56	89.35	6.28	4.51	4.98	6.67
				6:53:49 PM	1	30.31	13.05	88.4	0.58	7.58	80.38	5.63	4.31		
			Middle	6:48:06 PM	7.7	27.28	25.75	130.5	0.28	7.38	57.33	3.94	5.31		
				6:53:02 PM	7.9	27.44	26.01	87.3	0.32	7.39	59.49	4.07	6.72		
			Bottom	6:47:14 PM	14.2	25.7	29.4	80.2	0.18	7.34	48.3	3.34	9.12	3.55	
				6:52:03 PM	14.9	25.68	29.48	63.4	0.12	7.36	54.3	3.75	10.02		
		Mid-flood	Surface	10:02:40 AM	0.8	28.47	19.31	225.1	0.78	7.31	76.29	5.32	2.11	4.88	13.31
				10:09:00 AM	1	28.53	19.34	303.8	0.32	7.35	76.51	5.33	2.01		
			Middle	10:01:40 AM	8.2	27.8	22.34	251	0.64	7.25	63.57	4.41	3.71		
				10:08:01 AM	8.4	27.86	22.15	259.1	0.52	7.28	63.99	4.44	3.11		
			Bottom	10:00:35 AM	15.2	27.17	24.75	256	0.66	7.21	56.56	3.91	34.77	3.90	
				10:07:01 AM	15.7	27.3	24.29	246.7	0.66	7.25	56.08	3.88	34.17		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	9:18:50 PM	1.2	28.83	19.06	123.7	0.04	7.69	78.29	5.43	3.11	4.64	5.48
				9:23:38 PM	1.2	28.79	19.25	144	0.06	7.69	80.68	5.6	2.91		
			Middle	9:17:43 PM	8.8	27.06	25.33	53.9	0.17	7.53	53.55	3.7	5.71		
				9:22:44 PM	9.1	26.98	25.61	20.1	0.16	7.56	55.21	3.81	5.81		
			Bottom	9:17:05 PM	14.9	25.45	30.07	305.7	0.16	7.5	42.61	2.94	8.02	3.15	
				9:22:07 PM	14.7	25.5	30.02	281.2	0.12	7.54	48.57	3.35	7.32		
		Mid-flood	Surface	1:52:25 PM	0.9	29.51	15.85	271.6	0.7	7.49	93.02	6.5	3.71	5.17	6.03
				1:59:27 PM	0.8	29.51	15.89	259.2	0.68	7.57	95.98	6.7	3.51		
			Middle	1:51:28 PM	8.8	27.47	24.06	302.5	0.47	7.18	53.84	3.72	2.81		
				1:58:18 PM	8.8	27.49	24.01	314.8	0.45	7.27	54.52	3.77	2.81		
			Bottom	1:50:02 PM	13.3	26.84	26.14	287.8	0.35	7.13	49.66	3.43	12.23	3.47	
				1:57:06 PM	14.5	26.86	26.11	272.4	0.31	7.23	50.94	3.51	11.13		
2009/08/01	Sunny	Mid-ebb	Surface	8:17:09 AM	1	28.31	20.68	90.5	0.65	7.5	69.77	4.84	2.31	4.57	3.93
				8:20:36 AM	1	28.27	20.78	89.1	0.55	7.59	70.14	4.87	2.21		
			Middle	8:16:34 AM	8.7	27.22	25.97	77.5	0.19	7.55	64.73	4.44	3.81		
				8:20:03 AM	8.9	26.72	27.46	43.9	0.18	7.58	60.07	4.12	4.41		
			Bottom	8:15:53 AM	15.5	24.92	31.55	97.9	0.3	7.18	39.6	2.74	6.02	3.33	
				8:19:24 AM	15.4	25.03	31.47	93.7	0.2	7.45	56.63	3.91	4.81		
		Mid-flood	Surface	12:05:01 AM	1.1	29.03	18.94	95.3	0.35	7.68	90.45	6.26	3.51	5.71	4.86
				11:59:52 PM	1	29.34	16.98	79.2	0.44	7.69	94.98	6.61	3.31		
			Middle	12:04:02 AM	8	26.87	27.19	332.1	0.11	7.64	72.42	4.97	4.21		
				11:58:50 PM	8	26.86	27.23	351.4	0.16	7.64	73.01	5.01	4.11		
			Bottom	12:02:49 AM	14.9	25.59	30.19	156.2	0.12	7.5	51.85	3.57	5.61	3.37	
				11:57:42 PM	15.1	25.43	30.54	175.5	0.06	7.46	45.87	3.16	8.42		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	3:32:10 AM	0.9	27.76	25.12	225.4	0.11	7.37	69	4.72	2.71	4.32	4.25
				3:35:23 AM	1	27.88	24.71	54.5	0.1	7.42	70.02	4.79	2.51		
			Middle	3:31:07 AM	8.9	26.57	28.35	246.1	0.24	7.29	58.18	3.98	3.71		
				3:34:23 AM	8.9	26.46	28.65	259.9	0.24	7.32	55.39	3.79	4.11		
			Bottom	3:30:03 AM	15	26.2	29.15	265.1	0.24	7.22	57.38	3.94	5.51	3.81	
				3:33:21 AM	14.9	26.15	29.28	254.4	0.27	7.29	53.48	3.67	6.92		

Annex D15 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	3:27:38 PM	0.9	28.05	20.93	80.9	0.61	7.5	74.9	5.21	8.32	4.58	10.09
				3:32:17 PM	1	28.11	21.04	97.7	0.52	7.5	74.88	5.2	7.92		
			Middle	3:26:49 PM	8.1	27.35	26.42	96.8	0.35	7.49	56.49	3.86	10.32		
				3:31:27 PM	8.1	27.57	25.7	89.3	0.39	7.5	59.34	4.05	10.52		
			Bottom	3:25:56 PM	13.8	27.18	27.16	165.7	0.05	7.51	57.47	3.92	11.63	3.92	
				3:30:40 PM	13.9	27.19	27.08	115	0.06	7.51	57.51	3.92	11.83		
		Mid-flood	Surface	5:04:14 AM	1.2	27.88	19.84	272.6	0.13	7.05	78.03	5.48	6.42	4.73	7.57
				5:08:53 AM	1	27.87	19.46	132.3	0.25	7.06	83.94	5.91	6.72		
			Middle	5:03:15 AM	9	27.15	27.22	255.1	0.4	7.04	55.12	3.76	6.62		
				5:07:51 AM	9.2	27.16	27.15	249.1	0.51	7.06	55.32	3.78	6.42		
			Bottom	5:02:10 AM	14.1	27.1	27.49	262.7	0.41	7.04	56.22	3.83	6.92	3.81	
				5:06:49 AM	15.1	27.08	27.56	266.8	0.42	7.06	55.62	3.79	12.33		
2009/08/08	Cloudy	Mid-ebb	Surface	5:08:05 PM	1	29.18	20.58	153	0.18	7.54	79.28	5.43	7.21	4.95	11.81
				5:13:07 PM	1.1	29.46	18.77	145.2	0.12	7.55	78.94	5.43	7.92		
			Middle	5:07:15 PM	8.8	27.65	25.94	198.7	0.06	7.47	66.36	4.52	9.34		
				5:12:17 PM	9.2	27.65	26.28	165.8	0.09	7.51	64.69	4.4	10.05		
			Bottom	5:06:12 PM	14.8	27.59	27.64	187.5	0.12	7.5	69.5	4.7	22.01	4.60	
				5:11:31 PM	14.6	27.58	27.65	213.9	0.24	7.54	66.45	4.49	14.31		
		Mid-flood	Surface	6:13:53 AM	1.2	28.3	21.39	270.6	0.71	7.27	73.63	5.09	4.27	4.81	6.65
				6:19:08 AM	1	28.33	21.23	259.1	0.81	7.32	75.54	5.22	3.86		
			Middle	6:13:01 AM	8	27.91	24.58	255.7	0.81	7.25	65.03	4.45	4.57		
				6:18:16 AM	8.1	27.94	24.23	251.9	0.95	7.31	65.23	4.47	5.18		
			Bottom	6:11:49 AM	14.2	27.62	25.52	249.9	0.83	7.2	61.33	4.19	12.28	4.22	
				6:17:22 AM	14.6	27.7	25.23	249.8	0.9	7.29	62.23	4.25	9.74		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:53:47 PM	1.2	29.09	21.07	138.8	0.76	7.61	78.85	5.39	3.76	4.64	7.23
				5:58:01 PM	1.2	29.28	22.39	94	0.71	7.6	74.7	5.05	4.98		
			Middle	5:53:00 PM	8	27.62	28.69	56.3	0.08	7.62	61.12	4.1	5.38		
				5:57:13 PM	8.3	27.54	28.94	52.1	0.1	7.61	60.02	4.03	5.79		
			Bottom	5:52:09 PM	15	27.26	29.92	304.5	0.02	7.6	58.39	3.92	11.77	3.95	
				5:56:23 PM	15.1	27.26	29.92	35.5	0.03	7.59	59.24	3.97	11.67		
		Mid-flood	Surface	9:19:52 AM	1	28.52	24.75	249.1	0.75	7.55	78.61	5.32	3.05	4.86	6.08
				9:24:59 AM	0.9	28.49	25.91	240.5	0.36	7.56	71.22	4.79	3.96		
			Middle	9:19:05 AM	8	28.23	26.29	247.3	0.78	7.54	70.82	4.77	4.17		
				9:24:04 AM	8.2	28.15	26.77	245	0.77	7.55	67.69	4.55	4.17		
			Bottom	9:18:19 AM	14.8	27.9	27.82	252.9	0.34	7.53	68.76	4.62	8.53	4.51	
				9:23:13 AM	14.9	27.94	28.01	255	0.66	7.54	65.43	4.39	12.58		
2009/08/14	Cloudy	Mid-ebb	Surface	7:25:37 PM	0.9	28.86	19.05	97.6	0.54	7.54	74.54	5.17	3.56	4.36	7.09
				7:29:29 PM	1.3	28.77	20.04	86.6	0.46	7.54	68.79	4.75	3.66		
			Middle	7:25:00 PM	6.7	27.76	26.16	79	0.15	7.51	56.45	3.84	6.4		
				7:28:52 PM	7	27.67	26.67	65.4	0.12	7.51	54.17	3.68	6.29		
			Bottom	7:24:08 PM	14.1	26.81	29.7	313.1	0.08	7.49	50.52	3.42	11.26	3.47	
				7:28:16 PM	13.9	26.86	29.55	300.8	0.07	7.49	51.99	3.52	11.36		
		Mid-flood	Surface	11:57:36 AM	1.2	28.21	22.25	218	0.83	7.51	87.14	6	3.05	5.49	5.92
				12:05:52 PM	1.4	28.31	21.97	287.8	0.72	7.56	78.22	5.39	2.95		
			Middle	11:56:51 AM	8.1	28.14	23.69	250.8	0.71	7.51	83.9	5.74	4.37		
				12:05:05 PM	8.3	28.16	23.65	275.5	0.35	7.54	70.76	4.84	4.67		
			Bottom	11:56:05 AM	14.6	27.8	27.3	263.7	0.65	7.48	75.01	5.06	10.96	4.58	
				12:04:28 PM	15	27.85	27.17	273.3	0.72	7.52	60.71	4.1	9.54		

Annex D15 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	7:36:27 AM	1.2	28.84	20.36	104.1	0.67	7.74	77	5.31	3.56	4.81	4.62
				7:41:33 AM	1.1	28.82	19.85	82.2	0.58	7.78	76.39	5.28	3.56		
			Middle	7:35:34 AM	8	26.85	28.71	76.7	0.28	7.67	61.83	4.21	4.17		
				7:40:59 AM	8.1	26.58	29.37	87.4	0.24	7.72	65.1	4.43	3.86		
			Bottom	7:34:43 AM	14.9	25.81	31.25	82	0.2	7.59	58.37	3.98	5.79	4.19	
				7:40:01 AM	15.1	25.75	31.4	82.3	0.21	7.67	64.43	4.4	6.8		
		Mid-flood	Surface	10:52:16 PM	1	29.95	16.49	95.4	0.45	7.72	89.76	6.2	3.56	5.00	6.03
				10:57:05 PM	1	29.77	18.03	83.8	0.46	7.69	86.27	5.93	3.56		
			Middle	10:51:26 PM	8.1	27.13	26.6	335.8	0.1	7.55	58.13	3.98	5.99		
				10:56:10 PM	8.1	27.06	28.06	50	0.05	7.56	56.83	3.87	5.79		
			Bottom	10:50:32 PM	14.9	26.17	30.27	210.2	0.09	7.49	47.45	3.24	9.13	3.33	
				10:55:13 PM	14.9	26.19	30.22	245.1	0.09	7.51	50.11	3.42	8.12		
2009/08/18	Cloudy	Mid-ebb	Surface	9:44:51 AM	0.9	28.93	22	89.7	0.84	7.54	107.73	7.35	3.15	6.42	4.94
				9:50:28 AM	1	28.68	22.97	87.3	0.81	7.68	100.88	6.87	2.95		
			Middle	9:44:03 AM	8	26.85	28.55	82.2	0.5	7.3	80.96	5.51	5.69		
				9:49:37 AM	7.9	26.76	28.73	75.6	0.47	7.49	87.46	5.96	5.99		
			Bottom	9:43:17 AM	15	25.81	30.86	65.7	0.18	7.15	81.17	5.55	6.09	5.72	
				9:48:40 AM	14.9	25.82	30.84	56.2	0.18	7.39	86.08	5.89	5.79		
		Mid-flood	Surface	8:10:05 PM	1.1	29.49	21.46	292.1	0.35	7.77	95.92	6.5	4.47	6.34	13.83
				8:14:01 PM	1	29.64	20.26	295.8	0.28	7.77	100.15	6.81	3.76		
			Middle	8:09:27 PM	8.1	29.01	23.36	242.9	0.31	7.75	89.81	6.07	5.48		
				8:13:19 PM	8.1	28.94	23.45	265.3	0.31	7.74	88.21	5.97	5.08		
			Bottom	8:08:36 PM	14.9	27.24	27.97	292.9	0.6	7.55	56.37	3.82	31.14	3.92	
				8:12:13 PM	15.1	27.2	28.08	296	0.64	7.56	59.23	4.02	33.06		
2009/08/21	Sunny	Mid-ebb	Surface	3:26:52 PM	1	28.88	24.08	49.9	0.69	7.67	85.48	5.77	18.78	5.56	19.67
				3:32:52 PM	1	28.85	24.08	90	0.71	7.66	82.12	5.54	19.18		
			Middle	3:25:58 PM	8.1	27.3	27.5	89	0.39	7.68	81.43	5.53	18.38		
				3:32:04 PM	7.9	27.49	27.09	82	0.51	7.68	79.62	5.4	19.98		
			Bottom	3:24:51 PM	13.9	26.74	28.62	102.5	0.09	7.7	85.02	5.8	20.78	5.75	
				3:31:14 PM	13.3	26.94	28.21	203.3	0.17	7.7	83.5	5.69	20.89		
		Mid-flood	Surface	5:24:38 AM	1.1	28.76	24.12	279.5	0.42	7.4	70.45	4.76	7.23	4.61	10.49
				5:26:57 AM	0.9	28.79	23.98	273.4	0.29	7.43	70.1	4.74	7.13		
			Middle	5:23:53 AM	8	28.02	25.92	252.7	0.73	7.4	65.52	4.44	7.63		
				5:26:16 AM	7.9	28.14	25.62	253.3	0.77	7.44	66.35	4.49	7.33		
			Bottom	5:23:01 AM	14.8	27.44	27.36	245.1	0.76	7.38	61.08	4.14	18.98	4.20	
				5:25:29 AM	14.9	27.53	27.18	244.4	0.79	7.43	62.8	4.26	14.66		
2009/08/23	Sunny	Mid-ebb	Surface	4:35:37 PM	1.1	29.17	24.11	71.9	0.87	7.34	65.87	4.42	13.36	4.24	13.74
				4:42:25 PM	1	29.66	22.83	81.3	0.73	7.35	69.11	4.63	11.25		
			Middle	4:34:29 PM	8.1	27.55	27.08	89.6	0.57	7.33	59	4	13.96		
				4:41:36 PM	8.1	27.46	27.17	83.7	0.47	7.35	57.71	3.92	12.95		
			Bottom	4:33:29 PM	14.7	26.72	28.66	79.3	0.09	7.35	58.9	4.02	15.26	4.05	
				4:40:47 PM	14.6	26.74	28.6	113.6	0.04	7.37	59.83	4.08	15.66		
		Mid-flood	Surface	7:04:33 AM	1	29.34	23.29	226.9	0.75	7.38	67.54	4.54	12.95	4.35	18.99
				7:08:47 AM	1	28.91	24.02	279.9	0.63	7.4	65.23	4.4	12.45		
			Middle	7:03:45 AM	8.1	27.91	26.27	256.1	0.8	7.41	62.34	4.22	14.46		
				7:08:03 AM	8	27.86	26.36	254.3	0.91	7.43	62.5	4.23	15.46		
			Bottom	7:02:49 AM	15	27.67	26.76	246.1	0.86	7.41	64.54	4.38	29.92	4.48	
				7:07:16 AM	14.9	27.71	26.69	241.6	0.88	7.45	67.44	4.57	28.72		

Annex D16 - Baseline Water Quality Monitoring Results

Sampling Station : NM5

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	5:35:47 PM	1.2	30.52	12.98	167.5	0.71	7.4	87.37	6.1	4.11	4.70	8.03
				5:41:15 PM	0.9	30.46	13.31	164.7	0.74	7.42	69.25	4.83	4.21		
			Middle	5:34:40 PM	10.2	27.51	24.02	179.8	0.28	7.22	55.09	3.8	5.91		
				5:40:29 PM	10.1	27.61	23.62	154.7	0.29	7.25	59.09	4.08	5.61		
			Bottom	5:33:26 PM	19.9	26.31	27.59	146.9	0.14	7.16	43.39	3	14.83	3.38	
				5:39:34 PM	19.8	26.31	27.58	123.1	0.16	7.19	54.36	3.75	13.53		
		Mid-flood	Surface	11:30:35 AM	0.8	29.58	11.03	348	0.31	7.39	79.77	5.72	4.71	4.69	12.61
				11:36:32 AM	1.1	29.56	12.05	348	0.31	7.41	71.65	5.11	4.71		
			Middle	11:29:28 AM	9.5	27.82	22.82	352.9	0.89	7.36	58.34	4.03	3.91		
				11:35:43 AM	10.2	27.63	23.4	329.6	0.91	7.37	56.05	3.88	5.61		
			Bottom	11:28:10 AM	19.8	26.11	28.19	318.9	0.51	7.35	50.59	3.49	29.86	3.50	
				11:34:25 AM	20	26.11	28.19	323.8	0.54	7.36	50.81	3.51	26.86		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	7:52:22 PM	1.2	29.7	17.89	308.3	0.32	7.63	85.55	5.89	4.51	4.64	5.45
				7:57:00 PM	1.2	29.68	17.53	348.6	0.28	7.67	91.87	6.34	4.11		
			Middle	7:51:43 PM	11.1	26.68	27.02	3	0.23	7.41	47.88	3.3	6.42		
				7:56:03 PM	11	26.38	27.55	343.4	0.23	7.41	43.96	3.03	6.52		
			Bottom	7:50:39 PM	19.1	25.66	29.52	330.5	0.22	7.38	45.45	3.14	5.61	3.00	
				7:55:21 PM	18.7	25.65	29.55	338.6	0.15	7.4	41.42	2.86	5.51		
		Mid-flood	Surface	3:25:45 PM	0.8	30.21	12.89	331.7	0.26	7.61	78.25	5.49	5.11	4.60	5.68
				3:31:50 PM	1	30.17	13.23	331.7	0.26	7.6	89.65	6.28	4.81		
			Middle	3:24:49 PM	9.9	27.13	25.28	333.3	0.3	7.32	50.35	3.47	3.81		
				3:31:07 PM	9.8	27.03	25.63	338.7	0.28	7.33	45.57	3.14	5.01		
			Bottom	3:23:42 PM	17.8	25.56	29.81	8.4	0.24	7.31	40.22	2.78	7.92	2.77	
				3:30:13 PM	17.8	25.51	29.92	325.1	0.22	7.32	39.81	2.75	7.42		
2009/08/01	Sunny	Mid-ebb	Surface	9:37:27 AM	1.1	29.15	14.69	126.1	0.76	7.54	68.78	4.87	3.41	3.97	4.46
				9:41:30 AM	1.2	29.13	15.61	153.7	0.79	7.57	67.53	4.75	3.81		
			Middle	9:36:53 AM	11.1	26.49	27.99	178.2	0.62	7.41	46.05	3.16	3.81		
				9:40:54 AM	11.1	26.54	27.77	155.1	0.54	7.44	45.18	3.11	3.61		
			Bottom	9:36:03 AM	18.8	25.4	30.32	96.1	0.21	7.31	35.36	2.44	5.91	2.38	
				9:40:15 AM	18.9	25.41	30.28	151.7	0.23	7.32	33.65	2.32	6.22		
		Mid-flood	Surface	10:41:27 PM	1	29.45	16.5	229.6	0.04	7.62	91.76	6.39	3.51	5.31	5.00
				10:45:57 PM	1	29.62	15.01	156.3	0.1	7.62	92.19	6.46	3.81		
			Middle	10:40:28 PM	11.2	27.06	26.38	64	0.05	7.5	61.91	4.25	4.91		
				10:45:03 PM	10.9	27.01	26.53	304.5	0.1	7.49	60.41	4.15	4.91		
			Bottom	10:39:34 PM	19	25.52	30.21	137	0.16	7.3	35.59	2.45	7.02	2.44	
				10:43:51 PM	19	25.58	30.06	134.5	0.09	7.32	35.1	2.42	5.81		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	5:04:32 AM	1	28.57	21.4	345.7	0.43	7.56	81.94	5.64	5.71	4.45	12.09
				5:08:39 AM	1.1	28.56	21.43	345.7	0.43	7.57	81.56	5.61	2.31		
			Middle	5:03:30 AM	11.1	26.32	29.2	307.8	0.67	7.37	45.65	3.12	8.32		
				5:07:36 AM	11	26.22	29.17	326.7	0.7	7.41	49.9	3.42	4.61		
			Bottom	5:02:29 AM	20.1	25.79	29.93	304.9	0.57	7.31	39.3	2.7	26.76	2.74	
				5:06:34 AM	20.2	25.79	29.92	304.9	0.57	7.32	40.42	2.78	24.85		

Annex D16 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:10:21 PM	1	28.27	17.48	113	1.17	7.42	76.3	5.39	5.61	4.55	29.21
				2:15:50 PM	1	28.31	17.37	145.2	1.15	7.44	77.07	5.45	5.51		
			Middle	2:09:27 PM	11.2	27.45	24.94	111.7	0.95	7.4	52.13	3.58	31.77		
				2:14:52 PM	11	27.53	24.1	148.2	0.7	7.42	54.54	3.76	24.45		
			Bottom	2:08:00 PM	19.6	27.34	25.91	147.1	0.62	7.39	49.41	3.39	52.51	3.40	
				2:13:56 PM	19.7	27.34	25.95	140.7	0.58	7.42	49.57	3.4	55.41		
		Mid-flood	Surface	6:22:58 AM	1	28.04	16.23	345	0.21	7.28	83.92	6	9.22	5.14	15.42
				6:27:26 AM	1.1	28.04	16.28	349	0.33	7.29	83.53	5.97	8.42		
			Middle	6:22:02 AM	11.1	27.53	25.21	333.3	0.6	7.28	62.69	4.3	5.21		
				6:26:31 AM	11.1	27.53	25.09	333.3	0.6	7.29	62.39	4.28	5.51		
			Bottom	6:21:03 AM	20.2	27.09	27.07	316.9	0.71	7.25	45.87	3.14	27.66	3.13	
				6:25:37 AM	20.3	27.09	27.07	316.9	0.71	7.26	45.67	3.12	36.48		
2009/08/08	Cloudy	Mid-ebb	Surface	2:45:02 PM	1	29.81	14.1	154.9	1.04	7.63	86.34	6.06	3.96	5.16	13.56
				2:51:45 PM	1	29.81	13.63	152.7	1.03	7.67	86.55	6.09	4.17		
			Middle	2:44:23 PM	10.1	28.2	22.82	141.6	0.78	7.47	60.36	4.15	7.51		
				2:51:04 PM	10.1	28.3	22.13	138.4	0.81	7.51	62.78	4.32	6.29		
			Bottom	2:43:32 PM	18.7	27.53	26.08	166	0.54	7.45	53.34	3.64	28.7	3.65	
				2:50:10 PM	19.1	27.54	26.05	203.2	0.26	7.49	53.65	3.66	30.73		
		Mid-flood	Surface	7:43:47 AM	1.1	28.95	12.63	333.7	0.55	7.39	73.65	5.29	5.79	4.93	31.78
				7:49:15 AM	0.9	28.92	13.08	335.2	0.64	7.41	75.26	5.39	5.18		
			Middle	7:42:57 AM	10	28.08	23.45	332.5	0.81	7.45	64.53	4.43	7		
				7:48:17 AM	10.3	28.22	23.06	336.8	0.87	7.46	66.94	4.59	6.6		
			Bottom	7:41:55 AM	19	27.41	26.35	326.5	0.69	7.43	56.21	3.84	79.61	3.85	
				7:46:55 AM	19.4	27.41	26.42	318.9	0.62	7.44	56.62	3.86	86.5		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	4:32:02 PM	1	28.84	13.65	150.9	0.57	7.52	83.45	5.97	4.77	5.26	8.73
				4:37:21 PM	1.2	28.81	13.58	152.3	0.68	7.52	84.49	6.05	4.77		
			Middle	4:31:07 PM	11	28.34	26.43	165.1	0.16	7.59	67.06	4.51	6.09		
				4:36:28 PM	10.8	28.4	26.15	166.2	0.11	7.6	66.83	4.49	5.99		
			Bottom	4:30:10 PM	18.9	27.63	28.85	134.6	0.31	7.56	59.66	4	15.73	4.00	
				4:35:36 PM	19	27.65	28.81	151.1	0.42	7.57	59.43	3.99	15.02		
		Mid-flood	Surface	10:38:28 AM	1	29.15	12.92	316.3	0.27	7.44	70.12	5.01	5.59	4.47	11.26
				10:41:30 AM	1.2	29.14	13.22	277.7	0.08	7.44	69.68	4.97	5.69		
			Middle	10:37:36 AM	11.2	28.15	27.28	337.3	0.82	7.6	59.35	3.98	6.29		
				10:40:36 AM	11.1	28.21	27.11	336.3	0.87	7.6	58.24	3.91	6.29		
			Bottom	10:36:42 AM	17.3	27.47	29.45	330.1	0.67	7.6	58.39	3.91	20.9	3.86	
				10:39:44 AM	17.3	27.46	29.48	325.4	0.68	7.59	56.7	3.8	22.82		
2009/08/14	Cloudy	Mid-ebb	Surface	6:08:46 PM	1	29.56	17.8	327.3	0.06	7.49	80.26	5.54	4.67	4.84	6.57
				6:11:18 PM	0.9	29.59	17.39	283.4	0.07	7.49	82.63	5.72	4.27		
			Middle	6:08:02 PM	10.3	27.96	26.76	241.2	0.17	7.45	61.29	4.14	7.21		
				6:10:28 PM	10.3	27.96	26.76	264.1	0.18	7.45	58.9	3.97	7		
			Bottom	6:07:10 PM	18.1	27.25	28.85	133.6	0.34	7.42	57.42	3.88	8.02	3.85	
				6:09:43 PM	18	27.26	28.82	133.6	0.34	7.42	56.62	3.82	8.22		
		Mid-flood	Surface	1:15:46 PM	1.1	29.14	14.71	345.6	0.34	7.41	81.85	5.79	5.08	4.92	9.15
				1:18:46 PM	1.1	29.03	14.95	47.6	0.13	7.42	76.7	5.43	4.98		
			Middle	1:14:56 PM	10	28.05	26.71	340.2	0.69	7.49	65.51	4.42	7.61		
				1:17:57 PM	10.1	28.05	26.69	339.2	0.66	7.5	59.63	4.02	7.61		
			Bottom	1:14:01 PM	17.9	27.01	29.62	323	0.6	7.47	65.83	4.44	17.45	4.20	
				1:17:11 PM	17.8	27.1	29.36	315.7	0.61	7.47	58.71	3.96	12.18		

Annex D16 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	9:31:34 AM	1.1	29.51	12.29	121.5	0.92	7.71	93.3	6.65	3.86	5.55	5.33
				9:36:50 AM	1.1	29.45	13.2	149.2	0.93	7.7	92.78	6.58	3.86		
			Middle	9:30:45 AM	10.2	27.57	27.33	149	0.57	7.6	65.67	4.45	3.56		
				9:35:59 AM	10.1	27.53	27.11	137.6	0.59	7.61	66.63	4.52	3.35		
			Bottom	9:29:56 AM	18.1	26.5	30.1	157.7	0.34	7.52	58.1	3.94	8.93	4.03	
				9:35:09 AM	18	26.52	30.07	145.9	0.39	7.55	60.7	4.12	8.42		
		Mid-flood	Surface	9:42:03 PM	1	30.22	15.31	351.3	0.1	7.69	99.07	6.86	4.37	4.83	7.90
			Middle	9:38:23 PM	11.1	26.89	28.79	339.1	0.14	7.42	45.48	3.09	9.44		
				9:39:11 PM	1.1	30.14	15.54	98.8	0.07	7.68	93.33	6.46	4.67		
			Bottom	9:37:49 PM	19	26.61	29.63	159.1	0.07	7.4	42.6	2.89	9.95		
				9:40:12 PM	19.2	26.62	29.61	205.6	0.03	7.4	45.47	3.09	9.74	3.15	
				9:41:01 PM	11	26.95	26.98	321.9	0.14	7.43	46.76	3.21	9.24		
2009/08/18	Cloudy	Mid-ebb	Surface	11:27:40 AM	1	30.06	17.7	117.3	1.09	7.94	91.54	6.27	3.86	5.57	10.34
				11:38:58 AM	1	30.04	17.75	143.8	0.96	7.95	95.01	6.51	4.27		
			Middle	11:27:04 AM	10	27.73	26.51	138.8	0.97	7.79	71.92	4.88	6.5		
				11:38:06 AM	10	27.69	26.68	142.9	1.03	7.82	67.89	4.6	4.88		
			Bottom	11:26:15 AM	18	26.63	28.99	154.7	0.39	7.76	71.54	4.88	17.85	4.68	
				11:37:00 AM	18.1	26.64	29.2	150.4	0.39	7.77	65.74	4.47	24.65		
		Mid-flood	Surface	6:41:49 PM	0.9	29.9	16.25	349.2	0.5	7.5	90.51	6.27	8.73	5.93	36.97
				6:47:42 PM	0.9	29.87	16.9	332.5	0.48	7.56	90.36	6.24	8.73		
			Middle	6:40:59 PM	11.1	27.45	28.22	318.9	0.82	7.59	74.41	5.02	21.1		
				6:46:41 PM	10.8	27.98	27.54	321.4	0.78	7.66	92.12	6.19	17.25		
			Bottom	6:39:28 PM	19.2	26.58	29.31	326.8	0.57	7.5	61.21	4.17	101.21	4.25	
				6:45:37 PM	19	26.58	29.3	325.6	0.62	7.52	63.62	4.33	64.8		
2009/08/21	Sunny	Mid-ebb	Surface	1:56:13 PM	1	30.65	19.07	154.3	1.21	7.68	99.71	6.72	8.54	6.30	18.43
				2:04:04 PM	0.9	30.57	19.15	152.5	1.13	7.69	99.41	6.7	7.73		
			Middle	1:55:24 PM	10.1	28.8	23.4	144.9	1.02	7.64	87.47	5.93	9.54		
				2:03:14 PM	10.1	28.89	23.06	157.1	1.04	7.65	86.39	5.86	11.05		
			Bottom	1:54:32 PM	19	27.77	26.53	134.1	0.51	7.64	85.03	5.76	28.11	5.74	
				2:02:22 PM	19.1	27.75	26.53	148	0.37	7.67	84.35	5.72	45.58		
		Mid-flood	Surface	6:39:28 AM	1.1	29.25	20.4	343.6	0.67	7.46	68.56	4.69	9.14	4.58	60.09
				6:46:36 AM	1	29.11	20.35	337.3	0.57	7.47	69.45	4.76	9.24		
			Middle	6:38:43 AM	9.9	28.44	25.47	328.6	0.89	7.53	66.07	4.46	16.47		
				6:45:46 AM	9.9	28.22	25.56	319.4	0.98	7.54	65.04	4.4	15.36		
			Bottom	6:37:30 AM	19.1	27.33	27.56	320.8	0.76	7.53	61.47	4.17	171.79	4.23	
				6:44:50 AM	19.5	27.3	27.64	324.8	0.79	7.54	63.04	4.28	138.55		
2009/08/23	Sunny	Mid-ebb	Surface	3:07:05 PM	1	30	20.5	159.6	1.09	7.21	73.47	4.96	12.35	4.91	17.83
				3:12:19 PM	1	29.99	20.24	166.8	1.01	7.21	72.98	4.94	11.45		
			Middle	3:05:59 PM	10.1	28.95	23.58	149.9	0.57	7.24	72.16	4.87	11.35		
				3:11:30 PM	10.1	28.82	24.07	147.9	0.5	7.27	72.07	4.87	11.05		
			Bottom	3:05:06 PM	19.3	28.02	26.01	175.4	0.51	7.24	69.54	4.71	24.7	4.77	
				3:10:23 PM	18.9	28.02	25.97	168.1	0.55	7.28	71.37	4.83	36.05		
		Mid-flood	Surface	8:33:37 AM	1.1	29.68	19.6	319.2	0.89	7.37	69.42	4.74	9.44	4.57	35.06
				8:39:14 AM	1	29.66	19.88	343.6	0.91	7.39	69.52	4.74	9.64		
			Middle	8:32:44 AM	10	28.47	24.69	329.2	1.34	7.44	65.5	4.43	16.37		
				8:38:22 AM	10.3	28.56	24.49	343.2	1.18	7.45	64.38	4.36	15.97		
			Bottom	8:31:28 AM	19.1	27.48	27.13	342.3	0.85	7.44	62.42	4.24	79	4.21	
				8:37:24 AM	19.2	27.45	27.16	331.1	0.89	7.46	61.49	4.18	79.92		

Annex D17 - Baseline Water Quality Monitoring Results

Sampling Station : NM6

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	4:33:06 PM	0.9	29.91	12.63	258	0.18	7.38	90.22	6.37	3.81	5.54	5.03
				4:35:39 PM	1.1	29.87	13.12	239.8	0.08	7.33	87.15	6.14	3.51		
			Middle	4:32:23 PM	2.9	28.81	17.57	264.5	0.17	7.15	68.08	4.77	3.61		
				4:34:49 PM	2.9	28.82	17.52	230.9	0.13	7.17	69.67	4.88	3.21		
			Bottom	4:31:31 PM	5.5	27.3	24.72	111.8	0.06	7.12	52.68	3.64	8.12	3.59	
				4:34:03 PM	5.6	27.21	25.18	36.6	0.12	7.15	51.2	3.53	7.92		
		Mid-flood	Surface	12:39:01 PM	1	29.28	12.92	131.8	0.11	7.43	78.87	5.62	3.91	5.41	7.98
				12:41:41 PM	0.9	29.27	12.88	151	0.09	7.46	78.27	5.58	3.91		
			Middle	12:38:22 PM	3.7	28.91	15.72	92.5	0.14	7.41	74.32	5.25	4.51		
				12:40:59 PM	3.6	28.94	15.52	100.2	0.1	7.42	73.62	5.2	4.21		
			Bottom	12:37:25 PM	6.7	26.9	26.73	82.4	0.26	7.35	51.19	3.52	15.73	3.52	
				12:40:08 PM	6.7	26.94	26.56	65.9	0.22	7.39	51	3.51	15.63		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	6:47:59 PM	1.1	29.6	14.38	103.7	0.11	7.63	100.33	7.05	3.01	5.78	4.80
				6:54:53 PM	1.2	29.53	14.46	61.1	0.09	7.62	99.2	6.98	3.21		
			Middle	6:47:20 PM	3.8	28.7	18.4	201.8	0.16	7.33	66.35	4.63	3.41		
				6:50:39 PM	3.9	28.91	17.45	190.1	0.18	7.36	63.45	4.44	4.71		
			Bottom	6:46:40 PM	5.7	28.06	21.43	171.6	0.21	7.29	60.21	4.18	8.22	4.23	
				6:50:06 PM	5.9	28.1	21.22	216.2	0.19	7.33	61.64	4.28	6.22		
		Mid-flood	Surface	4:33:08 PM	0.8	29.78	13.93	125.8	0.17	7.62	100.11	7.04	3.41	6.65	3.29
				4:40:51 PM	0.8	29.78	13.91	125.8	0.17	7.65	101.07	7.1	3.31		
			Middle	4:32:30 PM	3.6	29.36	15.53	148.1	0.21	7.47	82.39	5.78	3.21		
				4:40:05 PM	3.6	29.54	15.04	148.1	0.21	7.61	95.33	6.69	3.11		
			Bottom	4:31:10 PM	5.6	29.08	16.48	128.4	0.11	7.4	78.73	5.52	3.61	5.45	
				4:35:22 PM	5.7	29.07	16.57	150.9	0.12	7.43	76.73	5.38	3.11		
2009/08/01	Sunny	Mid-ebb	Surface	10:33:33 AM	1.1	29.35	14.8	189.5	0.3	7.69	91.31	6.43	2.41	5.92	2.11
				10:37:27 AM	1.1	29.55	13.35	201.8	0.32	7.69	91	6.44	2.81		
			Middle	10:32:59 AM	3.9	29.14	16.46	280	0.28	7.7	68	4.76	1.81		
				10:36:51 AM	3.8	29.2	16.69	211.2	0.3	7.7	86.38	6.04	1.81		
			Bottom	10:32:23 AM	5.6	27.91	23.67	217.6	0.17	7.73	69.45	4.77	1.81	4.86	
				10:36:17 AM	5.9	27.85	24.17	184.4	0.34	7.77	72.15	4.95	2.01		
		Mid-flood	Surface	9:40:44 PM	1	29.96	12.49	66.8	0.21	7.57	90.66	6.4	4.91	5.43	7.88
				9:43:27 PM	1	30.05	14	63.4	0.2	7.58	90.57	6.33	4.71		
			Middle	9:39:48 PM	4	28.25	22.34	74.4	0.13	7.52	65.53	4.51	9.02		
				9:42:36 PM	4	28.26	22.3	67.6	0.18	7.53	65.03	4.48	8.42		
			Bottom	9:39:00 PM	6	28.13	22.98	59.9	0.06	7.47	67.53	4.64	9.32	4.46	
				9:41:43 PM	6	28.14	23.06	83.2	0.12	7.52	62.22	4.27	10.92		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	6:11:15 AM	1	28.23	22.27	31.9	0.23	7.52	71.99	4.96	2.81	4.50	9.07
				6:14:15 AM	0.9	28.2	22.45	31.9	0.23	7.52	70.89	4.88	2.91		
			Middle	6:10:10 AM	4.9	27.99	25.67	47.5	0.48	7.53	57.6	3.91	3.31		
				6:13:25 AM	5	28.07	24.28	51.6	0.44	7.52	62.38	4.26	3.11		
			Bottom	6:09:14 AM	7.1	27.4	27.8	33.9	0.56	7.45	48.29	3.27	23.65	3.19	
				6:12:20 AM	6.9	27.45	27.65	47.6	0.56	7.46	45.97	3.11	18.64		

Annex D17 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	12:51:24 PM	1.1	27.97	21.42	202.5	0.3	7.42	82.44	5.73	4.91	5.74	5.46
				12:53:50 PM	1	28.04	21.35	196.1	0.31	7.43	83.78	5.82	4.41		
			Middle	12:50:42 PM	3.1	27.96	21.46	194.7	0.32	7.42	82.2	5.71	5.51		
				12:53:09 PM	2.9	27.93	21.41	198.2	0.27	7.41	81.9	5.7	5.11		
			Bottom	12:49:57 PM	6.1	27.86	21.87	213.3	0.22	7.41	81.14	5.64	6.12	5.57	
				12:52:20 PM	6.1	27.79	22.16	215.8	0.24	7.4	79.19	5.5	6.72		
		Mid-flood	Surface	7:31:45 AM	1	27.72	21.06	33.2	0.23	7.47	80.49	5.63	6.22	5.67	10.29
				7:35:06 AM	1.1	27.72	20.9	22.4	0.25	7.48	81.4	5.7	6.22		
			Middle	7:30:43 AM	4	27.66	22.09	36.5	0.23	7.49	81.4	5.67	7.22		
				7:34:24 AM	4	27.67	21.89	38.1	0.27	7.5	81.6	5.69	6.72		
			Bottom	7:29:51 AM	7	27.62	23.69	40.5	0.4	7.51	80.89	5.59	17.74	5.57	
				7:33:34 AM	7	27.62	23.72	46.2	0.41	7.53	80.2	5.54	17.64		
2009/08/08	Cloudy	Mid-ebb	Surface	1:28:36 PM	1	29.25	15.47	266.4	0.1	7.5	81.49	5.73	4.88	5.05	9.15
				1:33:30 PM	0.9	29.3	14.41	218.4	0.1	7.55	83.5	5.9	4.67		
			Middle	1:27:54 PM	3.9	28.25	27.69	43.3	0.1	7.51	64.17	4.29	8.63		
				1:32:47 PM	3.9	28.25	27.65	28	0.04	7.51	63.98	4.28	8.93		
			Bottom	1:27:10 PM	5.9	28.13	28.55	124.3	0.08	7.5	62.27	4.15	12.89	4.12	
				1:31:41 PM	6	28.12	28.59	129.1	0.08	7.49	61.27	4.08	14.91		
		Mid-flood	Surface	8:57:50 AM	1	28.99	15.08	346.6	0.16	7.51	81.37	5.76	4.47	5.59	6.04
				9:02:01 AM	1.1	29.04	15.26	20.3	0.1	7.52	80.87	5.71	4.17		
			Middle	8:57:13 AM	4	28.94	16.14	255.3	0.04	7.48	75.65	5.33	4.98		
				9:01:20 AM	3.9	28.96	15.52	304.2	0.06	7.5	78.36	5.54	4.37		
			Bottom	8:56:32 AM	6	28.23	26.94	56.1	0.28	7.64	65.51	4.4	12.38	4.70	
				9:00:37 AM	6.1	28.75	19.64	25.4	0.09	7.57	72.14	5	5.89		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	3:26:27 PM	1.1	28.87	14.94	265.1	0.18	7.55	90.18	6.4	3.86	5.81	6.57
				3:28:58 PM	1	28.93	13.48	262.9	0.16	7.52	88.07	6.29	3.76		
			Middle	3:25:46 PM	3	28.89	22.65	268.5	0.08	7.57	77.85	5.29	6.19		
				3:28:05 PM	3	28.91	22.4	261.1	0.14	7.56	77.04	5.24	5.48		
			Bottom	3:25:04 PM	5	28.54	26.9	63.2	0.09	7.64	76.47	5.11	10.05	4.96	
				3:27:21 PM	4.9	28.49	27.47	87.5	0.07	7.63	72.17	4.81	10.05		
		Mid-flood	Surface	11:39:38 AM	1	29.02	18.9	73.9	0.2	7.56	77.85	5.39	3.35	5.21	11.05
				11:42:12 AM	1	29.01	18.9	108.8	0.11	7.56	76.56	5.3	3.46		
			Middle	11:38:50 AM	3.9	28.88	22.35	45.2	0.42	7.62	74.51	5.07	5.89		
				11:41:27 AM	3.9	28.83	22.63	75.1	0.2	7.63	74.28	5.06	6.4		
			Bottom	11:37:57 AM	5.9	28.42	28.16	59.3	0.34	7.68	68.29	4.54	24.45	4.50	
				11:40:33 AM	5.9	28.42	28.11	53.6	0.52	7.67	67.01	4.45	22.72		
2009/08/14	Cloudy	Mid-ebb	Surface	5:13:21 PM	1	29.27	14.96	261.7	0.11	7.41	84.82	5.98	4.57	5.38	6.77
				5:15:56 PM	1	29.51	14.39	294.2	0.11	7.44	83.81	5.9	4.47		
			Middle	5:12:45 PM	4	28.25	24.24	16.1	0.16	7.46	72.16	4.92	7.51		
				5:15:16 PM	3.8	28.24	23.75	15.5	0.08	7.47	69.16	4.72	7.51		
			Bottom	5:11:59 PM	6.1	28.14	26.45	161.6	0.02	7.47	69.78	4.7	8.42	4.58	
				5:14:32 PM	5.9	28.15	26.38	40.6	0.03	7.48	66.08	4.45	8.12		
		Mid-flood	Surface	2:11:05 PM	1.3	29.1	14.57	281.8	0.12	7.4	85.71	6.07	4.27	5.80	10.76
				2:15:31 PM	1.3	29.05	14.87	69.3	0.1	7.43	79.28	5.61	4.37		
			Middle	2:10:29 PM	4.3	28.7	16.52	30.2	0.21	7.4	85.47	6.03	5.18		
				2:14:54 PM	4.1	28.73	15.94	58.8	0.2	7.43	77.57	5.49	5.59		
			Bottom	2:09:31 PM	6	27.98	28.34	38.9	0.23	7.5	79.09	5.29	25.97	4.82	
				2:14:13 PM	6.1	27.99	27.94	63.4	0.25	7.52	64.79	4.34	19.17		

Annex D17 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	10:34:43 AM	1	29.56	14.53	230	0.7	7.66	97.22	6.84	3.66	6.59	11.89
				10:38:38 AM	1	29.67	14.33	207.1	0.65	7.66	98.53	6.92	3.25		
			Middle	10:34:03 AM	4	29.17	17.18	222.5	0.58	7.58	88	6.14	4.57		
				10:38:05 AM	4.1	29.27	15.75	210.7	0.61	7.6	91.76	6.44	4.77		
			Bottom	10:33:16 AM	6.1	27.85	27.52	240.3	0.49	7.53	62.26	4.19	30.12	4.48	
				10:37:23 AM	6.2	27.79	27.98	198.8	0.05	7.54	70.86	4.76	24.95		
		Mid-flood	Surface	8:43:25 PM	1	30.16	13.91	22.6	0.14	7.56	90.46	6.32	4.98	4.80	8.24
				8:45:35 PM	1.1	30.12	14.41	12.4	0.21	7.58	91.34	6.37	4.98		
			Middle	8:42:47 PM	4	28.15	24.39	60.6	0.29	7.38	47.72	3.25	8.83		
				8:44:56 PM	3.9	28.16	25.89	60.8	0.24	7.39	48.41	3.27	8.93		
			Bottom	8:42:09 PM	6.1	28.07	26.45	68.5	0.2	7.38	45.93	3.1	10.66	3.20	
				8:44:17 PM	6.1	28.06	26.55	46	0.2	7.38	48.91	3.3	11.06		
2009/08/18	Cloudy	Mid-ebb	Surface	12:34:22 PM	1.2	30.42	19.89	223.9	0.92	7.96	110.98	7.47	3.25	6.78	11.50
				12:39:19 PM	0.9	30.7	19.45	230.3	0.92	8.02	110.52	7.42	3.25		
			Middle	12:33:36 PM	4	28.89	23.05	231.7	0.86	7.83	88.16	5.98	5.89		
				12:38:43 PM	4	28.88	23.2	241.7	0.82	7.85	92.07	6.24	8.22		
			Bottom	12:32:42 PM	5.8	28.42	24.53	250	0.94	7.79	85.74	5.81	20.9	6.03	
				12:37:56 PM	5.8	28.52	24.27	240	0.79	7.83	91.99	6.24	27.49		
		Mid-flood	Surface	5:34:28 PM	1	29.76	16.78	260.2	0.06	7.4	95.84	6.63	10.96	6.50	12.94
				5:37:04 PM	1	29.78	16.74	163.8	0.07	7.4	95.08	6.58	9.84		
			Middle	5:33:30 PM	3	29.72	16.98	243.4	0.09	7.4	92.03	6.37	12.28		
				5:36:10 PM	3	29.75	16.85	243.4	0.09	7.4	92.45	6.4	11.26		
			Bottom	5:32:25 PM	4.9	29.52	17.74	268.7	0.09	7.39	88.91	6.15	17.04	6.34	
				5:35:23 PM	4.9	29.53	17.72	278.5	0.1	7.38	94.44	6.53	16.23		
2009/08/21	Sunny	Mid-ebb	Surface	12:46:17 PM	1.1	28.65	25.09	135.2	0.2	7.74	86.45	5.82	14.46	5.74	15.80
				12:48:21 PM	1	28.72	24.97	121.7	0.15	7.73	82.56	5.56	14.26		
			Middle	12:45:35 PM	4	28.29	25.7	170.1	0.25	7.76	88.84	6	13.25		
				12:47:43 PM	4	28.39	25.47	150.3	0.17	7.74	82.87	5.59	14.06		
			Bottom	12:44:53 PM	5.9	27.89	26.98	102.5	0.09	7.76	87.66	5.91	16.27	5.58	
				12:47:04 PM	5.9	27.66	27.56	157.5	0.13	7.72	77.83	5.25	22.49		
		Mid-flood	Surface	7:50:09 AM	1.2	29.22	20.15	147.7	0.41	7.45	77.68	5.32	7.93	5.35	11.23
				7:54:47 AM	1	29.23	19.92	115.8	0.14	7.43	78.49	5.39	7.63		
			Middle	7:49:21 AM	4	28.92	22.01	82.8	0.2	7.49	77.99	5.32	10.85		
				7:54:07 AM	4.1	29.09	20.76	74.9	0.25	7.45	78.51	5.38	9.74		
			Bottom	7:48:27 AM	6	28.88	22.25	52.4	0.42	7.5	79.7	5.43	11.15	5.27	
				7:53:21 AM	6.1	28.61	23.45	50.4	0.22	7.5	74.96	5.1	20.08		
2009/08/23	Sunny	Mid-ebb	Surface	2:00:17 PM	1	29.65	22.6	69.7	0.12	7.27	68.66	4.61	9.44	4.22	15.31
				2:02:32 PM	1	29.42	22.41	101.5	0.24	7.27	68.36	4.61	9.74		
			Middle	1:59:28 PM	4	27.37	27.4	115.9	0.19	7.25	56.93	3.87	12.65		
				2:01:46 PM	4	27.35	27.37	117.5	0.33	7.26	55.93	3.8	13.05		
			Bottom	1:58:35 PM	6.2	26.76	28.81	124.6	0.24	7.25	52.62	3.58	25.1	3.57	
				2:01:05 PM	6	26.81	28.68	107.8	0.19	7.24	52.22	3.55	21.89		
		Mid-flood	Surface	9:47:37 AM	1.1	29.48	21.21	53.7	0.34	7.37	70.66	4.79	10.64	4.63	24.72
				9:50:09 AM	1	29.5	21.06	52.5	0.38	7.38	68.3	4.64	9.24		
			Middle	9:46:49 AM	4.1	28.76	23.64	47.1	0.52	7.39	67.77	4.59	23.5		
				9:49:21 AM	4	28.86	23.34	55.8	0.54	7.39	66.06	4.48	20.78		
			Bottom	9:45:40 AM	6	28.17	25.82	55.8	0.45	7.4	64.62	4.37	44.58	4.32	
				9:48:21 AM	6	28.23	25.61	64.6	0.47	7.41	63.18	4.27	39.56		

Annex D18 - Baseline Water Quality Monitoring Results

Sampling Station : MW1

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/07/28	Cloudy and Rainy	Mid-ebb	Surface	6:42:59 PM	1.4	29.34	18.2	104.4	0.46	7.59	96.22	6.65	2.13	6.26	3.33
				6:46:12 PM	1.5	29.27	18.3	107.8	0.55	7.6	92.98	6.43	2.03		
			Middle	6:41:41 PM	9.9	28.81	20	350.6	0.12	7.51	88.29	6.1	2.13		
				6:45:07 PM	10.2	28.78	20.05	66.3	0.07	7.53	84.94	5.87	2.13		
			Bottom	6:40:18 PM	19.4	26.19	28	74.4	0.18	7.34	65.46	4.52	5.99	4.56	
				6:44:05 PM	18.5	26.22	27.88	78.6	0.21	7.4	66.42	4.59	5.58		
		Mid-flood	Surface	10:02:01 AM	1.1	28.75	17.53	241.5	0.13	7.25	99.41	6.97	2.13	6.42	2.64
				10:06:07 AM	1	28.72	17.57	256.7	0.08	7.26	93.36	6.55	1.93		
			Middle	10:00:51 AM	9.9	27.66	23.12	252.6	0.14	7.19	91.79	6.35	1.53		
				10:05:02 AM	10.3	27.02	25.26	103.5	0.03	7.21	83.76	5.79	2.44		
			Bottom	9:59:27 AM	18	26.36	27.49	98.6	0.18	7.11	86.45	5.97	4.16	5.79	
				10:04:00 AM	18.1	26.43	27.22	98.6	0.18	7.19	81.2	5.61	3.65		
2009/07/30	Cloudy and Rainy	Mid-ebb	Surface	8:36:20 PM	0.9	28.2	24.18	151.6	0.14	7.99	114.61	7.82	2.54	5.63	2.98
				8:40:08 PM	1	28.17	24.19	170.8	0.04	7.98	109.61	7.48	2.44		
			Middle	8:35:14 PM	10.3	25.77	29.58	190.8	0.02	7.51	53.95	3.72	2.94		
				8:39:09 PM	9.8	25.69	29.76	120.3	0.06	7.5	50.85	3.51	3.05		
			Bottom	8:34:11 PM	18.2	24.73	32.24	349.9	0.06	7.44	49.25	3.4	3.55	3.47	
				8:37:49 PM	18.2	24.73	32.2	260.4	0.06	7.45	51.25	3.54	3.35		
		Mid-flood	Surface	1:36:16 PM	1.2	28.68	20.09	235.1	0.27	7.41	109.98	7.61	1.93	6.45	4.31
				1:39:54 PM	1.4	28.37	20.97	220.8	0.16	7.4	100.25	6.94	2.13		
			Middle	1:34:51 PM	10.9	26.17	28.28	42.3	0.07	7.2	83.22	5.74	3.65		
				1:38:52 PM	11.2	26.24	28.11	12	0.21	7.25	79.56	5.49	3.65		
			Bottom	1:33:39 PM	19.8	25.18	31.02	303.4	0.41	7.15	81.29	5.61	6.7	5.33	
				1:37:34 PM	19.9	25.08	31.33	247.8	0.07	7.16	73.18	5.05	7.81		
2009/08/01	Sunny	Mid-ebb	Surface	8:41:18 AM	1.2	28.63	21.39	60.1	0.13	7.52	120.51	8.29	1.53	8.06	2.24
				8:44:25 AM	1.4	28.66	21.32	84.1	0.32	7.52	114.97	7.9	1.93		
			Middle	8:40:10 AM	8.9	28.24	23.21	27.9	0.27	7.57	120.61	8.26	1.53		
				8:43:28 AM	9.1	28.23	23.27	241.8	0.08	7.6	113.67	7.79	1.93		
			Bottom	8:39:02 AM	18	25.53	30.73	87.2	0.16	7.19	88.77	6.1	3.65	6.01	
				8:42:33 AM	18	25.36	31.08	65.9	0.26	7.2	86.02	5.92	2.84		
		Mid-flood	Surface	11:06:09 PM	1.1	28.62	22.1	348.3	0.06	7.74	103.79	7.11	2.64	5.62	3.88
				11:09:18 PM	1.5	28.71	21.8	5.2	0.22	7.74	101.59	6.96	2.44		
			Middle	11:04:17 PM	9.3	26.57	28.45	120.6	0.23	7.5	60.11	4.11	3.76		
				11:08:24 PM	9	26.65	28.23	73.9	0.18	7.51	62.62	4.28	3.86		
			Bottom	11:03:07 PM	18	24.89	32.01	98.9	0.23	7.3	51.8	3.57	5.28	3.40	
				11:07:26 PM	18.9	24.83	32.11	42.1	0.03	7.29	46.79	3.23	5.28		
2009/08/04	Rainy (Typhoon Signal No. 1 in the morning ; Signal No. 3 in the afternoon)	Mid-flood	Surface	3:34:58 AM	1	27.18	26.91	338.6	0.15	7.53	69.29	4.73	2.94	4.23	3.87
				3:37:58 AM	1.3	27.33	26.49	283.1	0.29	7.56	69.21	4.73	2.64		
			Middle	3:33:51 AM	9	26.56	28.79	184.9	0.12	7.46	57.96	3.96	3.65		
				3:36:59 AM	9	26.51	28.75	201.4	0.2	7.45	51.15	3.5	4.16		
			Bottom	3:32:34 AM	18.3	25.42	31.33	286.3	0.22	7.32	47.72	3.28	4.87	3.45	
				3:36:00 AM	18	25.47	31.26	286.3	0.22	7.36	52.55	3.61	4.97		

Annex D18 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/06	Cloudy and Rainy	Mid-ebb	Surface	2:35:08 PM	1.1	28.09	22.92	82.2	0.54	7.57	96.37	6.63	3.25	6.42	4.58
				2:38:05 PM	1.3	28.22	22.68	84.4	0.85	7.58	92.71	6.37	3.15		
			Middle	2:33:59 PM	9.8	27.76	24.16	66.3	0.45	7.56	95.3	6.55	4.16		
				2:37:10 PM	9.7	27.79	24.1	66.4	0.6	7.56	89.18	6.13	4.77		
			Bottom	2:32:58 PM	18.5	27.75	24.66	39	0.22	7.57	98.75	6.77	6.39	6.50	
				2:36:13 PM	18.3	27.76	24.48	81.9	0.15	7.56	90.76	6.22	5.78		
		Mid-flood	Surface	5:03:00 AM	1	27.68	23.72	273.2	0.22	7.46	79.24	5.46	4.67	5.14	5.14
				5:07:34 AM	1.3	27.68	23.53	306	0.13	7.48	78.9	5.45	4		
			Middle	5:01:58 AM	9	27.26	27.24	156	0.04	7.48	71.46	4.87	5.18		
				5:06:26 AM	9.2	27.23	27.4	180	0.13	7.5	70.33	4.79	5		
			Bottom	5:00:53 AM	18.3	27.1	27.81	200	0.3	7.45	70.07	4.77	5.99	4.77	
				5:05:14 AM	18	27.06	27.94	160.4	0.11	7.48	69.94	4.76	6		
2009/08/08	Cloudy	Mid-ebb	Surface	3:38:26 PM	1.1	29.41	18.73	77.4	0.69	7.44	95.64	6.59	4.67	6.38	5.09
				3:41:12 PM	1.5	29.43	18.52	75.2	0.8	7.43	91.44	6.3	4.57		
			Middle	3:37:23 PM	10.7	29.07	20.2	57.3	0.38	7.43	94.16	6.47	5.07		
				3:40:23 PM	8.5	29.24	19.67	22.3	0.24	7.42	89.67	6.16	5.48		
			Bottom	3:36:27 PM	17.7	28.74	21.71	61.3	0.26	7.42	92.58	6.34	5.18	6.03	
				3:39:29 PM	18.3	28.43	23.19	68.5	0.19	7.4	83.67	5.72	5.58		
		Mid-flood	Surface	6:18:44 AM	1.2	28.9	17.61	251.9	0.05	7.34	76.14	5.32	4.36	4.96	4.30
				6:21:22 AM	1.2	28.9	17.6	237.3	0.12	7.35	74.96	5.24	4.16		
			Middle	6:17:47 AM	10.1	28.23	22.84	104.8	0.09	7.33	67.92	4.66	4.36		
				6:20:32 AM	10.1	28.13	23.56	284.8	0.07	7.36	67.24	4.61	3.96		
			Bottom	6:16:56 AM	18	27.83	25.18	35.3	0.19	7.32	68.72	4.69	4.67	4.65	
				6:19:43 AM	18.1	27.9	24.88	84.5	0.16	7.36	67.53	4.61	4.26		
2009/08/12	Cloudy and Rainy	Mid-ebb	Surface	5:42:34 PM	1.3	28.58	23.99	111.5	0.32	7.62	75.74	5.14	2.23	5.08	3.32
				5:47:13 PM	1.1	28.72	23.63	89	0.41	7.62	77.65	5.27	1.93		
			Middle	5:41:12 PM	9.9	28.43	24.67	26.7	0.16	7.61	74.14	5.02	2.44		
				5:46:12 PM	10	28.4	24.89	266.8	0.09	7.61	72.04	4.88	3.15		
			Bottom	5:40:01 PM	18.2	27.61	28.44	197.8	0.11	7.57	62.01	4.17	5.68	4.23	
				5:45:09 PM	18.2	27.67	28.22	282.6	0.07	7.58	63.62	4.28	4.47		
		Mid-flood	Surface	9:16:45 AM	1.2	28.76	23.21	200	0.17	7.43	74.89	5.09	2.84	4.70	4.16
				9:20:33 AM	0.9	28.72	23.72	229.6	0.17	7.44	71.64	4.86	2.94		
			Middle	9:15:41 AM	10	28.21	26.24	182.5	0.16	7.4	64.9	4.37	3.86		
				9:19:19 AM	10.1	28.29	25.55	168	0.12	7.42	66.52	4.49	3.86		
			Bottom	9:14:40 AM	17.8	27.63	28.62	68.3	0.21	7.38	64.37	4.32	6.29	4.28	
				9:18:09 AM	17.9	27.75	28.14	68.3	0.21	7.42	63.03	4.24	5.18		
2009/08/14	Cloudy	Mid-ebb	Surface	7:04:57 PM	1.3	28.06	24.81	99.6	0.33	7.38	74.7	5.09	2.94	4.30	4.36
				7:08:13 PM	1.1	27.99	25.11	96.8	0.2	7.39	70.7	4.81	3.15		
			Middle	7:03:31 PM	9.9	26.36	30.58	24.9	0.06	7.29	54.16	3.67	4.36		
				7:07:11 PM	10.1	26.33	30.66	337.6	0.02	7.3	53.37	3.62	4.36		
			Bottom	7:02:28 PM	18.2	25.82	31.85	82.3	0.11	7.3	53.52	3.64	5.89	3.61	
				7:06:20 PM	17.9	25.85	31.8	58.9	0.08	7.3	52.63	3.58	5.48		
		Mid-flood	Surface	11:59:19 AM	1.2	28.38	21.05	285.6	0.2	7.4	81.95	5.67	2.34	5.03	5.58
				12:02:42 PM	1	28.51	20.81	213.3	0.13	7.41	81.72	5.65	2.23		
			Middle	11:58:00 AM	9.8	27.46	26.7	177.1	0.02	7.36	64.29	4.38	4.36		
				12:01:47 PM	9.9	27.54	26.59	155.4	0.08	7.37	64.66	4.4	3.96		
			Bottom	11:56:49 AM	17.9	26.7	29.92	202.1	0.06	7.35	62.31	4.22	9.03	4.18	
				12:00:36 PM	17.6	26.64	30.14	111.3	0.04	7.35	60.98	4.13	11.56		

Annex D18 - Baseline Water Quality Monitoring Results

Sampling Date	Weather Condition	Tide	Depth	Time	Depth (m)	Temp (℃)	Salinity (ppt)	Current Direction (deg)	Current Velocity (m/s)	pH	DO Saturation (%)	DO (mg/L)	Turbidity (NTU)	Depth-averaged	
														DO (mg/L)	Turbidity (NTU)
2009/08/16	Cloudy	Mid-ebb	Surface	7:44:44 AM	1.1	29.26	17.51	42.3	0.36	7.31	84.75	5.89	2.74	5.42	3.01
				7:47:58 AM	1.2	29.27	17.44	42.3	0.36	7.33	84.33	5.86	2.64		
			Middle	7:43:37 AM	10.2	28.03	24.41	27.5	0.24	7.26	69.92	4.78	2.34		
				7:46:57 AM	10	28.24	23.38	96.5	0.19	7.29	75.17	5.15	2.23		
			Bottom	7:42:35 AM	18.2	25.84	31.45	63.4	0.34	7.15	56.98	3.88	3.96	3.82	
				7:45:53 AM	18.1	25.84	31.48	17.8	0.34	7.17	55.07	3.75	4.16		
		Mid-flood	Surface	10:31:49 PM	1.1	28.74	22.47	66	0.19	7.53	86.7	5.91	2.94	4.80	4.63
				10:35:35 PM	1.4	28.82	22.2	103.5	0.44	7.54	88.71	6.05	2.74		
			Middle	10:30:45 PM	10	27.53	27.52	208.4	0.08	7.36	58	3.93	4.06		
				10:34:30 PM	10.6	25.78	31.34	135	0.09	7.27	48.34	3.3	5.38		
			Bottom	10:29:38 PM	17.7	25.44	32	307	0.11	7.24	45.85	3.13	6.49	3.23	
				10:33:33 PM	18.4	25.54	31.83	107.9	0.03	7.27	48.53	3.32	6.19		
2009/08/18	Cloudy	Mid-ebb	Surface	10:02:24 AM	1	28.77	22.14	94.2	0.41	7.45	94.65	6.47	2.23	5.77	4.04
				10:06:53 AM	1.3	29.07	21.47	95.4	0.27	7.49	83.22	5.68	3.15		
			Middle	10:01:00 AM	9.6	28.12	24.17	41.7	0.09	7.36	84.04	5.74	2.84		
				10:05:47 AM	9.9	28.18	23.95	331.6	0.07	7.4	76.07	5.2	2.94		
			Bottom	9:59:56 AM	18.2	26.28	29.88	78.4	0.3	7.17	63.51	4.33	5.78	3.98	
				10:04:43 AM	18.1	25.97	30.69	63.3	0.38	7.19	53.16	3.63	7.3		
		Mid-flood	Surface	7:57:16 PM	1.5	27.42	27.82	330.6	0.02	7.59	47.68	3.23	5.78	3.26	11.18
				8:00:24 PM	1.2	27.41	27.86	264.3	0.05	7.58	50.9	3.45	6.29		
			Middle	7:56:12 PM	9.9	26.84	29.26	354.8	0.13	7.57	45.4	3.08	12.48		
				7:59:21 PM	10.1	26.66	29.47	32	0.13	7.53	48.01	3.26	12.48		
			Bottom	7:54:59 PM	18	26.17	30.34	124.2	0.12	7.52	42.17	2.87	15.11	3.06	
				7:58:20 PM	17.8	26.14	30.38	140.9	0.09	7.51	47.73	3.25	14.91		
2009/08/21	Sunny	Mid-ebb	Surface	2:48:52 PM	1.2	29.74	23.39	59.7	0.77	7.56	94.86	6.33	6.9	6.07	9.52
				2:53:53 PM	0.9	29.91	23.29	109.6	0.85	7.56	91.98	6.13	6.7		
			Middle	2:47:43 PM	9.8	29.08	24.25	60.5	0.25	7.52	91.83	6.17	9.13		
				2:52:53 PM	9.1	29	24.24	70.9	0.4	7.49	83.88	5.64	8.62		
			Bottom	2:46:41 PM	18.9	28.63	25.06	76.6	0.43	7.5	94.15	6.34	12.78	6.01	
				2:51:56 PM	18.1	28.51	25.27	30.1	0.31	7.47	84.19	5.68	12.98		
		Mid-flood	Surface	5:37:57 AM	1.3	29.05	23.35	215.1	0.25	7.37	74.35	5.02	4.26	4.79	6.48
				5:41:02 AM	1.2	28.98	23.65	191.5	0.28	7.39	73.42	4.96	4.47		
			Middle	5:36:53 AM	9.9	28.19	25.98	218.9	0.28	7.33	68.19	4.6	5.68		
				5:40:02 AM	10	28.1	26.18	192.7	0.27	7.37	67.86	4.58	5.78		
			Bottom	5:35:42 AM	18.1	26.95	28.83	50.1	0.34	7.27	62.63	4.25	9.03	4.23	
				5:39:03 AM	18.1	26.81	29.11	60.5	0.35	7.33	61.9	4.2	9.64		
2009/08/23	Sunny	Mid-ebb	Surface	3:48:52 PM	1.1	29.68	23.93	74.2	0.84	7.43	79.48	5.3	5.18	5.08	7.41
				3:53:23 PM	1.2	29.72	23.85	77.6	0.79	7.44	77.46	5.16	5.18		
			Middle	3:47:55 PM	10	28.83	25.61	52	0.64	7.39	73.87	4.95	8.42		
				3:52:30 PM	10.3	29.06	25.18	56	0.43	7.41	73.52	4.91	8.12		
			Bottom	3:47:01 PM	17.9	28.78	25.78	50.1	0.32	7.4	76.59	5.13	8.83	5.05	
				3:51:28 PM	17.5	29.02	25.32	23	0.15	7.4	74.3	4.97	8.72		
		Mid-flood	Surface	7:02:34 AM	1.2	29.06	23.54	210.7	0.2	7.29	68.55	4.62	5.78	4.34	7.90
				7:05:28 AM	1.3	28.99	23.76	209.7	0.23	7.3	66.2	4.47	5.99		
			Middle	7:01:37 AM	10	28.18	26.11	218.7	0.28	7.28	62	4.18	7.61		
				7:04:38 AM	9.9	28.24	25.94	212.1	0.24	7.28	60.75	4.1	7.81		
			Bottom	7:00:44 AM	18	27.34	28.11	354.7	0.15	7.27	61.52	4.16	9.33	4.07	
				7:03:43 AM	17.9	27.29	28.21	107.9	0.28	7.27	58.58	3.97	10.85		

Annex D19 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WFA

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	5	<0.01	1.31	<2	<0.2	2	<1	<0.1	3	<1	30	1	<1
			4	<0.01	1.31	<2	<0.2	2	<1	<0.1	3	<1	45	1	<1
			--	--	--	--	--	--	--	--	--	--	40	1.1	<1
		Middle	10	0.01	1.08	2	<0.2	3	<1	<0.1	3	<1	35	0.8	<1
			7	<0.01	1.08	2	<0.2	3	<1	<0.1	3	<1	30	0.8	<1
			--	--	--	--	--	--	--	--	--	--	34	1	<1
		Bottom	11	0.04	0.77	<2	<0.2	3	3	<0.1	3	<1	19	0.9	<1
			11	0.04	0.77	<2	<0.2	2	2	<0.1	3	<1	19	0.9	<1
			--	--	--	--	--	--	--	--	--	--	26	0.8	<1
	Mid-flood	Surface	6	<0.01	1.3	2	<0.2	2	<1	<0.1	4	<1	46	1.1	--
			7	<0.01	1.31	2	<0.2	3	<1	<0.1	4	<1	49	1.2	--
			--	--	--	--	--	--	--	--	--	--	31	1.1	--
		Middle	7	0.04	1.03	<2	<0.2	7	2	<0.1	5	<1	48	0.9	--
			7	0.03	1.01	<2	<0.2	7	2	<0.1	5	<1	41	0.8	--
			--	--	--	--	--	--	--	--	--	--	39	1.5	--
		Bottom	30	0.07	0.65	2	<0.2	14	6	<0.1	5	<1	34	0.8	--
			29	0.07	0.65	2	<0.2	15	6	<0.1	5	<1	29	0.9	--
			--	--	--	--	--	--	--	--	--	--	41	0.9	--
2009/07/30	Mid-ebb	Surface	4	<0.01	1.61	2	<0.2	2	<1	<0.1	2	<1	5	0.7	<1
			5	<0.01	1.62	2	<0.2	3	<1	<0.1	4	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	4	0.01	1.02	2	<0.2	5	<1	<0.1	3	<1	5	0.8	<1
			3	0.01	1.01	2	<0.2	3	<1	<0.1	4	<1	8	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	3	0.05	0.75	<2	<0.2	3	<1	<0.1	2	<1	8	1.1	<1
			5	0.04	0.73	2	<0.2	3	<1	<0.1	3	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
	Mid-flood	Surface	6	0.01	1.44	2	<0.2	3	<1	<0.1	4	<1	5	0.8	<1
			6	0.01	1.46	<2	<0.2	3	<1	<0.1	4	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--
		Middle	6	0.05	0.92	<2	<0.2	4	<1	<0.1	3	<1	6	0.6	1
			10	0.05	0.87	<2	<0.2	5	2	<0.1	4	<1	7	0.8	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Bottom	8	0.04	0.67	<2	<0.2	4	<1	<0.1	3	<1	7	<0.5	<1
			6	0.04	0.64	<2	<0.2	3	<1	<0.1	2	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
2009/08/01	Mid-ebb	Surface	4	0.02	1.55	3	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			5	0.02	1.55	2	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	2	0.04	1.04	2	<0.2	4	1	<0.1	3	<1	4	2	<1
			2	0.03	1.04	2	<0.2	2	<1	<0.1	2	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Bottom	6	0.03	0.75	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			5	0.03	0.74	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--

Annex D19 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	0.02	1.48	3	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			4	0.02	1.49	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	5	0.04	0.88	3	<0.2	3	1	<0.1	3	<1	5	1.5	<1
			6	0.03	0.88	2	<0.2	2	1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	9	0.05	0.6	2	<0.2	5	3	<0.1	5	<1	8	<0.5	<1
			7	0.06	0.62	2	<0.2	3	2	<0.1	3	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	4	0.06	0.83	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			4	0.05	0.83	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	9	0.08	0.48	3	<0.2	3	1	<0.1	1	<1	<4	<0.5	1
			10	0.08	0.46	2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	29	0.08	0.42	3	<0.2	3	2	<0.1	2	<1	6	<0.5	1
			36	0.08	0.43	3	<0.2	3	3	<0.1	2	<1	7	<0.5	1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/06	Mid-ebb	Surface	8	<0.01	1.16	3	<0.2	4	<1	<0.1	3	<1	<4	1	<1
			10	<0.01	1.14	3	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	8	0.08	1.07	2	<0.2	3	<1	<0.1	3	<1	5	1.2	<1
			9	0.09	1.06	2	<0.2	4	1	<0.1	4	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	9	0.07	1.19	3	<0.2	6	2	<0.1	4	<1	7	1	<1
			11	0.07	1.18	3	<0.2	5	2	<0.1	4	<1	8	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
	Mid-flood	Surface	9	0.01	1.2	3	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			9	<0.01	1.19	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	10	0.09	1.04	2	<0.2	4	<1	<0.1	4	<1	5	<0.5	<1
			11	0.08	1.03	2	<0.2	3	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	37	0.1	0.88	2	<0.2	4	2	<0.1	6	<1	6	<0.5	1
			39	0.12	0.92	3	<0.2	4	2	<0.1	6	<1	6	0.5	1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--

Annex D19 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	7	<0.01	1.2	2	<0.2	3	2	<0.1	2	<1	5	1.6	<1
			5	<0.01	1.17	2	<0.2	3	2	<0.1	2	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	8	0.06	0.98	2	<0.2	6	2	<0.1	2	<1	5	1	<1
			8	0.05	0.97	2	<0.2	4	1	<0.1	2	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Bottom	36	0.06	0.92	2	<0.2	7	4	<0.1	4	<1	12	1.3	1
			34	0.06	0.91	3	<0.2	6	4	<0.1	4	<1	11	1	1
			--	--	--	--	--	--	--	--	--	--	10	1.8	--
	Mid-flood	Surface	7	<0.01	1.19	2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			8	0.01	1.2	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	17	0.06	0.95	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			17	0.06	0.96	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	23	0.1	0.68	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			25	0.11	0.68	2	<0.2	3	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.07	1.44	<2	<0.2	2	<1	<0.1	4	<1	<4	0.6	<1
			4	0.07	1.45	2	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	16	0.07	0.89	2	<0.2	3	<1	<0.1	2	<1	4	<0.5	<1
			18	0.07	0.87	3	<0.2	4	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	10	0.04	0.7	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			12	0.04	0.71	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.12	1.58	<2	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			6	0.12	1.57	2	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	17	0.06	0.64	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			18	0.06	0.62	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	52	0.11	0.55	3	<0.2	5	2	<0.1	2	<1	7	<0.5	1
			52	0.11	0.55	3	<0.2	7	5	<0.1	2	<1	10	0.6	2
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
2009/08/14	Mid-ebb	Surface	6	0.09	1.39	3	<0.2	3	<1	<0.1	4	<1	7	0.6	<1
			5	0.09	1.39	3	<0.2	2	<1	<0.1	4	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.5	--
		Middle	8	0.1	0.84	2	<0.2	7	2	<0.1	2	<1	6	0.8	<1
			9	0.1	0.84	2	<0.2	4	<1	<0.1	2	<1	8	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.7	--
		Bottom	9	0.09	0.64	2	<0.2	2	<1	<0.1	2	<1	4	0.6	<1
			8	0.08	0.62	2	<0.2	2	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--

Annex D19 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	6	0.17	1.63	3	<0.2	3	<1	<0.1	6	<1	<4	0.8	<1
			7	0.17	1.63	2	<0.2	3	<1	<0.1	6	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	19	0.1	1.84	2	<0.2	3	1	<0.1	3	<1	4	0.9	1
			21	0.1	0.85	2	<0.2	3	1	<0.1	3	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Bottom	28	0.08	0.55	<2	<0.2	3	1	<0.1	2	<1	<4	0.7	1
			32	0.08	0.55	2	<0.2	3	2	<0.1	2	<1	5	0.6	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/16	Mid-ebb	Surface	4	<0.01	1.27	3	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			4	<0.01	1.23	<2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.19	1.04	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.2	1.05	3	<0.2	2	<1	<0.1	3	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	17	0.04	0.72	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			15	0.05	0.73	4	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	5	0.07	1.37	3	<0.2	3	<1	<0.1	4	<1	<4	1.1	<1
			6	0.05	1.34	2	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	6	0.05	0.75	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.05	0.76	<2	<0.2	7	<1	<0.1	4	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
		Bottom	12	0.07	0.52	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			13	0.07	0.51	<2	<0.2	4	3	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	4	0.03	1.23	2	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			5	0.04	1.22	2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Middle	14	0.05	0.89	2	<0.2	2	<1	<0.1	2	<1	9	0.8	<1
			19	0.05	0.86	2	<0.2	3	<1	<0.1	2	<1	<4	1.4	1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Bottom	39	0.05	0.83	2	<0.2	2	1	<0.1	2	<1	5	1.2	<1
			37	0.05	0.82	3	<0.2	3	2	<0.1	2	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
	Mid-flood	Surface	15	<0.01	1.79	3	<0.2	2	<1	<0.1	4	<1	<4	0.9	<1
			15	<0.01	1.82	3	<0.2	2	<1	<0.1	4	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Middle	23	0.08	1.34	2	<0.2	2	<1	<0.1	2	<1	<4	1.5	1
			23	0.08	1.36	3	<0.2	3	<1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1.8	--
		Bottom	74	0.09	0.87	2	<0.2	5	2	<0.1	2	<1	7	1.4	2
			75	0.08	0.87	3	<0.2	7	5	<0.1	2	<1	11	1.5	2
			--	--	--	--	--	--	--	--	--	--	14	1.7	--

Annex D19 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	8	0.02	0.99	<2	<0.2	2	<1	<0.1	2	<1	7	1.3	<1
			9	0.02	1	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	13	0.05	0.97	2	<0.2	3	<1	<0.1	3	<1	4	1.3	<1
			14	0.05	0.97	2	<0.2	2	<1	<0.1	2	<1	5	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Bottom	72	0.05	0.91	2	<0.2	2	<1	<0.1	2	<1	5	1.6	2
			83	0.05	0.9	2	<0.2	2	<1	<0.1	3	<1	5	1.6	2
			--	--	--	--	--	--	--	--	--	--	4	1.8	--
	Mid-flood	Surface	9	0.02	1.31	2	<0.2	2	<1	<0.1	4	<1	11	1.1	<1
			10	0.03	1.3	2	<0.2	3	<1	<0.1	4	<1	10	1.3	<1
			--	--	--	--	--	--	--	--	--	--	13	1.2	--
		Middle	21	0.07	0.88	2	<0.2	3	1	<0.1	2	<1	9	1.1	<1
			21	0.09	0.9	2	<0.2	4	2	<0.1	3	<1	9	1.2	<1
			--	--	--	--	--	--	--	--	--	--	12	1.2	--
		Bottom	163	0.11	0.68	2	<0.2	1	<1	<0.1	2	<1	6	2.2	3
			154	0.11	0.67	4	<0.2	9	8	<0.1	4	<1	20	2.1	4
			--	--	--	--	--	--	--	--	--	--	22	2.2	--
2009/08/23	Mid-ebb	Surface	9	<0.01	1.3	2	<0.2	2	<1	<0.1	4	<1	5	0.6	<1
			10	<0.01	1.32	2	<0.2	<1	<1	<0.1	4	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	10	0.02	0.98	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			9	0.01	0.96	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	15	0.03	0.98	2	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			16	0.04	0.98	2	0.4	2	<1	<0.1	2	<1	19	1.4	<1
			--	--	--	--	--	--	--	--	--	--	7	0.8	--
	Mid-flood	Surface	10	<0.01	1.38	2	<0.2	2	<1	<0.1	4	<1	<4	0.8	<1
			10	<0.01	1.38	2	<0.2	2	<1	<0.1	4	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	34	0.05	0.94	2	<0.2	4	<1	<0.1	3	<1	4	1	1
			34	0.04	0.94	3	<0.2	6	2	<0.1	3	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Bottom	188	0.07	0.75	4	<0.2	11	8	<0.1	5	<1	20	0.9	4
			193	0.08	0.75	4	<0.2	10	8	<0.1	5	<1	20	0.9	4
			--	--	--	--	--	--	--	--	--	--	17	0.8	--

Annex D20 - Baseline Water Quality Monitoring Results

Sampling Station ESC-WFB

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	7	<0.01	1.11	<2	<0.2	2	<1	<0.1	2	<1	39	1	--
			9	<0.01	1.11	<2	<0.2	3	<1	<0.1	2	<1	29	1	--
			--	--	--	--	--	--	--	--	--	--	43	0.9	--
		Middle	19	<0.01	0.32	<2	<0.2	2	1	<0.1	1	<1	35	0.8	--
			19	<0.01	0.31	<2	<0.2	2	1	<0.1	1	<1	27	0.7	--
			--	--	--	--	--	--	--	--	--	--	32	0.9	--
		Bottom	25	<0.01	0.3	2	<0.2	2	1	<0.1	1	<1	22	0.7	--
			23	<0.01	0.31	2	<0.2	2	1	<0.1	1	<1	32	0.7	--
			--	--	--	--	--	--	--	--	--	--	41	0.7	--
	Mid-flood	Surface	4	<0.01	1.15	<2	<0.2	2	<1	<0.1	2	<1	24	1.1	<1
			6	0.01	1.16	2	<0.2	2	<1	<0.1	2	<1	44	1.4	<1
			--	--	--	--	--	--	--	--	--	--	48	1.1	<1
		Middle	4	<0.01	1.12	<2	<0.2	2	<1	<0.1	3	<1	28	0.7	<1
			4	<0.01	1.13	<2	<0.2	2	<1	<0.1	3	<1	40	0.6	<1
			--	--	--	--	--	--	--	--	--	--	48	0.7	<1
		Bottom	18	0.01	0.8	2	<0.2	3	<1	<0.1	3	<1	30	0.7	<1
			18	0.01	0.81	2	<0.2	3	<1	<0.1	2	<1	17	0.7	<1
			--	--	--	--	--	--	--	--	--	--	20	0.6	<1
2009/07/30	Mid-ebb	Surface	3	<0.01	1.18	2	<0.2	2	1	<0.1	3	<1	<4	0.8	<1
			6	<0.01	1.16	<2	<0.2	3	2	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
		Middle	5	<0.01	0.94	<2	<0.2	5	2	<0.1	2	<1	6	0.8	<1
			8	0.02	0.94	<2	<0.2	5	2	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	9	0.01	0.6	<2	<0.2	2	<1	<0.1	2	<1	7	0.6	<1
			8	0.02	0.57	<2	<0.2	2	<1	<0.1	2	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
	Mid-flood	Surface	4	<0.01	1.14	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			4	<0.01	1.2	<2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	4	<0.01	1.02	2	<0.2	2	1	<0.1	3	<1	6	0.6	<1
			5	<0.01	1.08	<2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Bottom	8	0.01	0.74	<2	<0.2	3	<1	<0.1	2	<1	6	0.6	<1
			9	0.02	0.73	<2	<0.2	3	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
2009/08/01	Mid-ebb	Surface	3	<0.01	1.4	3	<0.2	2	<1	<0.1	3	<1	<4	1.6	<1
			3	<0.01	1.42	2	<0.2	2	1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	5	0.02	0.63	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			5	0.02	0.61	<2	0.5	2	<1	<0.1	2	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	3	0.02	0.45	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			5	0.02	0.44	2	<0.2	2	2	<0.1	1	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--

Annex D20 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	8	<0.01	1.16	<2	<0.2	6	3	<0.1	4	<1	7	1.8	<1
			8	<0.01	1.14	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	18	0.03	0.42	2	<0.2	8	2	<0.1	2	<1	11	0.5	<1
			21	0.04	0.43	<2	<0.2	4	3	<0.1	2	<1	11	0.9	1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	20	0.05	0.44	2	<0.2	3	2	<0.1	4	<1	17	0.7	<1
			18	0.04	0.41	<2	<0.2	4	3	<0.1	3	<1	12	0.7	1
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
2009/08/04	Mid-ebb	Surface	4	0.02	0.49	2	0.2	2	2	<0.1	2	<1	5	1.1	<1
			3	0.02	0.51	2	<0.2	2	2	<0.1	2	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	7	0.8	--
		Middle	7	0.03	0.39	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			7	0.02	0.38	2	<0.2	2	1	<0.1	2	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	15	0.02	0.31	3	<0.2	4	<1	<0.1	2	<1	5	<0.5	<1
			14	0.02	0.3	2	<0.2	3	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	2	0.03	0.59	2	<0.2	2	1	<0.1	2	<1	<4	0.7	<1
			2	0.03	0.59	2	<0.2	2	1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	7	0.03	0.51	2	<0.2	4	2	<0.1	2	<1	5	<0.5	<1
			8	0.03	0.51	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	10	0.03	0.39	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			13	0.03	0.39	2	<0.2	2	2	<0.1	2	<1	4	1.1	3
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
2009/08/06	Mid-ebb	Surface	5	0.04	0.69	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			6	0.04	0.66	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	10	0.04	0.68	2	<0.2	4	1	<0.1	2	<1	<4	1	<1
			10	0.05	0.66	2	<0.2	3	<1	<0.1	4	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	41	0.05	0.59	3	<0.2	4	4	<0.1	2	<1	10	1.1	<1
			44	0.05	0.58	2	<0.2	4	3	<0.1	2	<1	9	0.8	1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
	Mid-flood	Surface	8	0.06	0.72	2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			9	0.06	0.72	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	6	0.06	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			7	0.06	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	30	0.04	0.53	3	<0.2	3	1	<0.1	2	<1	5	0.7	<1
			28	0.05	0.53	2	<0.2	3	1	<0.1	3	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D20 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.19	2	<0.2	2	1	<0.1	2	<1	<4	0.7	<1
			4	<0.01	1.17	2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	14	0.03	0.4	2	<0.2	3	2	<0.1	1	<1	5	<0.5	<1
			16	0.04	0.45	2	<0.2	4	2	<0.1	1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	23	0.03	0.23	<2	<0.2	4	2	<0.1	1	<1	5	<0.5	<1
			26	0.03	0.23	2	<0.2	4	2	<0.1	1	<1	6	<0.5	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	4	<0.01	1.25	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			3	<0.01	1.27	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	11	0.03	0.44	<2	<0.2	2	<1	<0.1	<1	<1	<4	<0.5	<1
			12	0.02	0.43	2	<0.2	2	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	37	0.03	0.26	<2	<0.2	2	1	<0.1	<1	<1	4	<0.5	1
			36	0.03	0.26	2	<0.2	2	1	<0.1	<1	<1	4	<0.5	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.01	1.38	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			4	0.02	1.36	3	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	8	0.07	1.13	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.06	1.1	2	<0.2	3	<1	<0.1	3	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	11	0.01	0.34	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			13	<0.01	0.34	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	4	0.01	1.45	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			5	<0.01	1.45	2	<0.2	2	1	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	3	0.06	1.3	3	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			4	0.06	1.3	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	28	0.04	0.8	3	<0.2	2	1	<0.1	2	<1	4	<0.5	<1
			26	0.04	0.79	3	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
2009/08/14	Mid-ebb	Surface	4	<0.01	1.33	3	<0.2	1	<1	<0.1	2	<1	<4	0.9	<1
			3	<0.01	1.31	3	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	7	0.03	1.06	3	<0.2	3	<1	<0.1	3	<1	<4	0.7	<1
			7	0.03	1.04	3	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	18	<0.01	0.31	2	<0.2	4	1	<0.1	1	<1	6	0.8	<1
			16	<0.01	0.31	3	<0.2	3	1	<0.1	1	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--

Annex D20 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	3	<0.01	1.38	3	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			3	<0.01	1.39	2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	4	<0.01	1.27	2	<0.2	6	<1	<0.1	3	<1	<4	1.8	<1
			4	<0.01	1.26	2	<0.2	7	<1	<0.1	3	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Bottom	18	0.02	0.8	2	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			17	0.02	0.81	2	<0.2	3	<1	<0.1	3	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/16	Mid-ebb	Surface	3	<0.01	1.32	3	<0.2	1	<1	<0.1	3	<1	<4	0.9	<1
			3	<0.01	1.28	3	<0.2	1	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	4	<0.01	1.28	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			5	<0.01	1.24	3	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	7	<0.01	1.1	3	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			6	<0.01	1.1	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
	Mid-flood	Surface	8	<0.01	0.91	3	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			8	<0.01	0.93	4	<0.2	3	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	9	<0.01	0.73	3	<0.2	3	1	<0.1	2	<1	6	<0.5	<1
			8	0.01	0.75	<2	<0.2	3	1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	15	0.05	0.44	<2	<0.2	2	2	<0.1	2	<1	6	<0.5	<1
			13	0.04	0.43	2	<0.2	3	2	<0.1	2	<1	9	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
2009/08/18	Mid-ebb	Surface	8	<0.01	0.91	2	<0.2	2	<1	<0.1	3	<1	<4	1.9	<1
			8	0.02	0.96	2	<0.2	3	<1	<0.1	3	<1	4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	20	0.03	0.47	2	<0.2	4	1	<0.1	1	<1	5	1.5	<1
			20	0.03	0.49	2	<0.2	3	1	<0.1	1	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.4	--
		Bottom	42	0.02	0.4	2	<0.2	2	1	<0.1	1	<1	<4	1.4	1
			40	0.02	0.41	3	<0.2	2	3	<0.1	4	<1	15	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
	Mid-flood	Surface	9	<0.01	1.17	2	<0.2	2	<1	<0.1	3	<1	<4	1.6	<1
			9	<0.01	1.2	2	<0.2	2	1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	14	<0.01	1.04	3	<0.2	2	<1	<0.1	3	<1	<4	1.6	<1
			14	<0.01	1.08	2	<0.2	2	<1	<0.1	3	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Bottom	24	0.02	0.88	3	<0.2	2	1	<0.1	2	<1	4	1.2	<1
			22	0.02	0.87	3	<0.2	2	1	<0.1	2	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	10	1.3	--

Annex D20 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	6	<0.01	0.92	2	<0.2	2	<1	<0.1	2	<1	7	1.4	<1
			7	<0.01	0.92	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	15	<0.01	0.48	<2	<0.2	3	<1	<0.1	2	<1	5	1.1	<1
			17	<0.01	0.48	<2	<0.2	2	<1	<0.1	1	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Bottom	35	0.02	0.37	<2	<0.2	1	<1	<0.1	1	<1	<4	1.3	<1
			37	0.03	0.38	<2	<0.2	1	<1	<0.1	1	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
	Mid-flood	Surface	7	<0.01	0.92	2	<0.2	3	<1	<0.1	2	<1	<4	1.1	<1
			8	<0.01	0.92	2	<0.2	4	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Middle	15	0.01	0.85	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			14	0.01	0.86	2	<0.2	2	<1	<0.1	2	<1	9	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	40	0.02	0.7	2	<0.2	1	<1	<0.1	2	<1	<4	1	1
			43	0.02	0.7	2	<0.2	1	<1	<0.1	2	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
2009/08/23	Mid-ebb	Surface	7	<0.01	0.96	2	<0.2	2	1	<0.1	2	<1	<4	0.6	<1
			6	<0.01	0.94	<2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	21	0.02	0.45	3	<0.2	3	<1	<0.1	1	<1	4	<0.5	<1
			19	0.03	0.45	2	<0.2	2	<1	<0.1	1	<1	5	1	1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	25	0.02	0.39	2	<0.2	<1	<1	<0.1	1	<1	4	<0.5	<1
			25	0.02	0.4	<2	<0.2	<1	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	5	<0.01	1.02	2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			5	<0.01	1.02	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	25	0.02	0.77	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			28	0.01	0.76	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	109	0.02	0.42	2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	2
			111	0.03	0.44	<2	<0.2	<1	<1	<0.1	1	<1	<4	0.7	2
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D21 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WMA

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	6	<0.01	1.29	<2	<0.2	2	2	<0.1	3	<1	38	0.8	<1
			5	<0.01	1.29	<2	<0.2	2	2	<0.1	3	<1	25	0.8	<1
			--	--	--	--	--	--	--	--	--	--	23	0.9	<1
		Middle	7	0.02	0.81	2	<0.2	3	3	<0.1	3	<1	42	1.3	<1
			6	0.01	0.81	2	<0.2	4	4	<0.1	3	<1	38	1.8	<1
			--	--	--	--	--	--	--	--	--	--	37	1.4	<1
		Bottom	18	0.09	0.55	<2	<0.2	3	1	<0.1	2	<1	26	0.7	<1
			21	0.09	0.55	<2	<0.2	2	1	<0.1	2	<1	49	0.7	<1
			--	--	--	--	--	--	--	--	--	--	22	0.6	<1
	Mid-flood	Surface	7	<0.01	1.23	2	<0.2	8	<1	<0.1	4	<1	46	<0.5	<1
			5	<0.01	1.23	2	<0.2	9	<1	<0.1	4	<1	44	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	49	<0.5	<1
		Middle	8	0.03	0.9	<2	<0.2	16	1	<0.1	4	<1	32	<0.5	<1
			8	0.03	0.9	2	<0.2	13	<1	<0.1	4	<1	19	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	42	0.5	<1
		Bottom	26	0.05	0.75	2	<0.2	6	2	<0.1	3	<1	42	0.8	<1
			28	0.05	0.74	2	<0.2	7	2	<0.1	3	<1	42	0.9	<1
			--	--	--	--	--	--	--	--	--	--	38	0.8	<1
2009/07/30	Mid-ebb	Surface	4	<0.01	1.02	<2	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			3	<0.01	1.01	<2	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	7	0.03	0.66	<2	<0.2	2	1	<0.1	2	<1	5	0.6	<1
			10	0.03	0.67	<2	<0.2	2	<1	<0.1	4	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	0.6	--
		Bottom	10	0.12	0.47	<2	<0.2	2	1	<0.1	1	<1	5	0.6	<1
			8	0.12	0.46	<2	<0.2	2	<1	<0.1	1	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
	Mid-flood	Surface	3	<0.01	1.12	<2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			<2	<0.01	1.09	<2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	5	0.02	0.73	<2	<0.2	3	<1	<0.1	2	<1	5	0.7	7
			7	0.03	0.74	<2	<0.2	6	<1	<0.1	2	<1	14	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	12	0.05	0.56	<2	<0.2	6	3	<0.1	4	<1	10	0.7	<1
			13	0.05	0.57	<2	<0.2	6	<1	<0.1	3	<1	9	0.8	1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
2009/08/01	Mid-ebb	Surface	5	<0.01	1.34	3	<0.2	3	<1	<0.1	3	<1	<4	1.4	<1
			3	<0.01	1.34	3	<0.2	3	<1	<0.1	3	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Middle	5	0.02	0.53	2	<0.2	2	2	<0.1	2	<1	4	0.6	<1
			6	0.02	0.53	2	<0.2	3	2	<0.1	2	<1	23	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	--
		Bottom	14	0.06	0.45	2	<0.2	1	<1	<0.1	1	<1	15	<0.5	<1
			12	0.07	0.44	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D21 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	3	<0.01	1.37	2	<0.2	2	<1	<0.1	3	<1	<4	1.4	<1
			3	<0.01	1.39	2	<0.2	2	<1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Middle	8	0.03	0.61	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			9	0.03	0.62	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	0.8	--
		Bottom	10	0.03	0.39	2	<0.2	2	2	<0.1	2	<1	<4	1.3	<1
			12	0.03	0.39	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	3	0.04	0.7	<2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			5	0.04	0.7	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	16	0.04	0.43	2	<0.2	3	2	<0.1	2	<1	5	<0.5	1
			11	0.04	0.43	2	<0.2	3	2	<0.1	2	<1	8	<0.5	1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	22	0.1	0.38	3	<0.2	4	2	<0.1	2	<1	5	<0.5	1
			26	0.1	0.38	<2	<0.2	3	1	<0.1	1	<1	4	<0.5	2
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
2009/08/06	Mid-ebb	Surface	8	0.06	1.1	2	<0.2	2	<1	<0.1	3	<1	<4	1.5	<1
			9	0.05	1.09	2	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	14	0.1	0.86	2	<0.2	3	<1	<0.1	3	<1	5	1.6	<1
			12	0.1	0.89	2	<0.2	2	<1	<0.1	3	<1	4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
		Bottom	25	0.1	0.66	2	<0.2	3	<1	<0.1	2	<1	8	1.8	1
			25	0.1	0.66	2	<0.2	3	1	<0.1	3	<1	6	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	1.5	--
	Mid-flood	Surface	8	0.06	1.09	<2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			7	0.06	1.1	2	<0.2	2	<1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Middle	10	0.13	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			10	0.11	0.67	2	<0.2	2	<1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Bottom	31	0.11	0.53	2	<0.2	3	7	<0.1	4	<1	6	0.8	1
			34	0.11	0.53	3	<0.2	3	7	<0.1	4	<1	6	1.2	1
			--	--	--	--	--	--	--	--	--	--	5	1.5	--

Annex D21 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.17	3	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			4	<0.01	1.16	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	12	0.08	0.8	3	<0.2	5	<1	<0.1	2	<1	4	<0.5	<1
			13	0.08	0.79	3	<0.2	4	<1	<0.1	2	<1	10	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	92	0.1	0.66	5	<0.2	11	4	<0.1	5	<1	13	0.9	2
			92	0.1	0.66	4	<0.2	10	4	<0.1	6	<1	12	0.6	2
			--	--	--	--	--	--	--	--	--	--	13	0.6	--
	Mid-flood	Surface	6	0.01	1.13	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			7	0.02	1.12	2	<0.2	2	<1	<0.1	2	<1	<4	1	1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	8	0.09	1.01	2	<0.2	7	1	<0.1	2	<1	5	<0.5	1
			8	0.11	1.03	2	<0.2	5	1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	24	0.12	0.61	2	<0.2	2	1	<0.1	2	<1	5	<0.5	2
			28	0.12	0.61	3	<0.2	2	1	<0.1	2	<1	5	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	6	0.16	1.38	<2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			7	0.15	1.36	<2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	11	0.03	0.53	<2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			9	0.03	0.54	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	0.06	0.51	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			24	0.06	0.5	<2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.4	1.42	3	<0.2	2	1	<0.1	3	<1	4	<0.5	<1
			5	0.38	1.39	2	<0.2	2	1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	7	0.05	0.63	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.04	0.62	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	30	0.06	0.5	2	<0.2	4	1	<0.1	2	<1	5	<0.5	<1
			30	0.06	0.52	2	<0.2	3	1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/14	Mid-ebb	Surface	6	0.12	1.3	3	<0.2	1	<1	<0.1	3	<1	<4	0.8	<1
			4	0.12	1.3	2	<0.2	2	<1	<0.1	3	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	8	0.04	0.64	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			9	0.04	0.64	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	14	0.11	0.53	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			10	0.11	0.52	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D21 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.07	0.81	2	<0.2	1	<1	<0.1	2	<1	<4	0.7	<1
			5	0.08	0.82	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	7	0.07	0.68	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			7	0.07	0.68	2	<0.2	6	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1	--
		Bottom	21	0.07	0.5	<2	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			22	0.07	0.5	2	<0.2	12	1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/16	Mid-ebb	Surface	6	0.03	1.17	<2	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			4	0.02	1.13	3	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.04	0.47	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.04	0.47	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	16	0.07	0.44	2	<0.2	3	2	<0.1	1	<1	4	0.6	<1
			15	0.09	0.46	2	<0.2	3	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	4	<0.01	1.24	<2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			5	<0.01	1.25	2	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	15	0.04	0.66	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			16	0.06	0.69	2	<0.2	3	1	<0.1	1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	18	0.07	0.38	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			22	0.05	0.37	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	5	0.03	1.1	2	<0.2	2	<1	<0.1	3	<1	<4	1.4	<1
			6	0.04	1.12	2	<0.2	2	<1	<0.1	3	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	16	0.05	0.52	2	<0.2	5	1	<0.1	3	<1	6	1.4	<1
			15	0.05	0.51	2	<0.2	2	<1	<0.1	2	<1	5	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1.5	--
		Bottom	59	0.06	0.47	3	<0.2	4	4	<0.1	3	<1	7	0.8	1
			62	0.06	0.46	2	<0.2	4	3	<0.1	2	<1	7	1.4	2
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
	Mid-flood	Surface	7	0.01	1.15	2	<0.2	2	1	<0.1	3	<1	4	1.7	<1
			8	0.01	1.13	2	<0.2	2	1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	6	<0.01	0.71	2	<0.2	3	<1	<0.1	2	<1	<4	1.8	<1
			6	0.01	0.71	2	<0.2	3	<1	<0.1	2	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Bottom	41	0.03	0.57	3	<0.2	4	1	<0.1	2	<1	5	1.3	1
			43	0.03	0.58	3	<0.2	3	2	<0.1	2	<1	6	1.3	1
			--	--	--	--	--	--	--	--	--	--	6	1.4	--

Annex D21 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	7	0.04	1.14	2	<0.2	2	<1	<0.1	3	<1	8	1.2	<1
			8	0.04	1.13	2	<0.2	2	<1	<0.1	3	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Middle	16	0.08	0.84	2	<0.2	3	2	<0.1	2	<1	6	1.6	<1
			15	0.09	0.85	2	<0.2	2	<1	<0.1	2	<1	5	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	45	0.06	0.72	2	<0.2	2	<1	<0.1	2	<1	4	1.2	1
			47	0.06	0.72	2	<0.2	2	<1	<0.1	2	<1	7	1.6	1
			--	--	--	--	--	--	--	--	--	--	4	1.8	--
	Mid-flood	Surface	9	0.09	1.16	2	<0.2	2	<1	<0.1	3	<1	8	1.1	<1
			8	0.09	1.16	2	<0.2	4	<1	<0.1	3	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	15	0.1	0.82	2	<0.2	3	<1	<0.1	2	<1	9	1.3	<1
			13	0.08	0.8	2	<0.2	3	<1	<0.1	2	<1	7	1.1	<1
			--	--	--	--	--	--	--	--	--	--	12	1.2	--
		Bottom	42	0.09	0.58	2	<0.2	3	2	<0.1	2	<1	6	0.9	1
			41	0.09	0.58	2	<0.2	3	2	<0.1	2	<1	17	1	1
			--	--	--	--	--	--	--	--	--	--	13	1	--
2009/08/23	Mid-ebb	Surface	8	0.05	1.05	2	<0.2	2	<1	<0.1	3	<1	5	<0.5	<1
			9	0.04	1.06	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	24	0.05	0.74	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			24	0.07	0.76	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	68	0.06	0.62	2	<0.2	2	<1	<0.1	2	<1	14	0.6	2
			65	0.06	0.62	2	<0.2	<1	<1	<0.1	2	<1	<4	0.6	2
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	8	0.06	1.28	2	<0.2	2	<1	<0.1	4	<1	<4	0.8	<1
			8	0.05	1.27	3	<0.2	3	<1	<0.1	4	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	17	0.06	0.79	2	<0.2	3	1	<0.1	2	<1	8	1.3	<1
			19	0.06	0.76	2	<0.2	3	1	<0.1	2	<1	8	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	82	0.1	0.6	3	<0.2	6	4	<0.1	3	<1	10	1.4	2
			85	0.08	0.59	3	<0.2	3	3	<0.1	2	<1	8	0.7	2
			--	--	--	--	--	--	--	--	--	--	9	0.8	--

Annex D22 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WMB

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.28	2	<0.2	14	<1	<0.1	3	<1	33	0.8	<1
			5	<0.01	1.3	2	<0.2	23	<1	<0.1	3	<1	30	0.7	<1
			--	--	--	--	--	--	--	--	--	--	29	0.6	<1
		Middle	4	<0.01	1.11	<2	<0.2	10	<1	<0.1	2	<1	19	1.1	<1
			4	<0.01	1.11	<2	<0.2	3	<1	<0.1	3	<1	22	0.5	<1
			--	--	--	--	--	--	--	--	--	--	23	0.9	<1
		Bottom	4	0.04	0.8	<2	<0.2	1	<1	<0.1	1	<1	37	<0.5	<1
			4	0.04	0.81	<2	<0.2	<1	<1	<0.1	1	<1	36	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	42	<0.5	<1
	Mid-flood	Surface	5	0.02	1.31	<2	<0.2	2	<1	<0.1	4	<1	24	0.8	--
			4	0.02	1.29	<2	<0.2	2	<1	<0.1	4	<1	26	0.7	--
			--	--	--	--	--	--	--	--	--	--	17	<0.5	--
		Middle	17	0.03	0.99	2	<0.2	2	<1	<0.1	3	<1	17	<0.5	--
			16	0.03	1	2	<0.2	2	<1	<0.1	3	<1	26	<0.5	--
			--	--	--	--	--	--	--	--	--	--	23	<0.5	--
		Bottom	52	0.05	0.76	<2	<0.2	2	1	<0.1	3	<1	27	<0.5	--
			45	0.05	0.77	<2	<0.2	2	1	<0.1	3	<1	23	<0.5	--
			--	--	--	--	--	--	--	--	--	--	32	<0.5	--
2009/07/30	Mid-ebb	Surface	8	<0.01	1.06	<2	<0.2	9	<1	<0.1	2	<1	6	1.2	<1
			8	<0.01	1.08	<2	<0.2	10	1	<0.1	3	<1	7	1.4	<1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Middle	6	<0.01	0.93	<2	<0.2	5	<1	<0.1	2	<1	5	1.6	<1
			6	<0.01	0.93	<2	<0.2	4	<1	<0.1	2	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Bottom	7	0.05	0.65	<2	<0.2	<1	<1	<0.1	1	<1	<4	0.7	<1
			6	0.04	0.67	<2	<0.2	<1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	3	<0.01	1.08	<2	<0.2	10	<1	<0.1	4	<1	6	<0.5	<1
			4	<0.01	1.08	<2	<0.2	8	<1	<0.1	3	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	6	0.03	0.86	<2	<0.2	5	<1	<0.1	2	<1	5	<0.5	<1
			6	0.03	0.85	<2	<0.2	8	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	5	0.02	0.79	<2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.01	0.79	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/01	Mid-ebb	Surface	4	<0.01	1.26	3	<0.2	16	<1	<0.1	3	<1	8	0.6	<1
			3	<0.01	1.25	3	<0.2	24	<1	<0.1	3	<1	9	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	0.8	--
		Middle	4	0.04	0.69	2	<0.2	14	<1	<0.1	2	<1	12	0.7	<1
			6	0.03	0.68	2	<0.2	17	1	<0.1	2	<1	16	0.7	<1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
		Bottom	4	0.01	0.71	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			5	0.01	0.68	2	<0.2	<1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--

Annex D22 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	<0.01	1.36	3	<0.2	8	1	<0.1	4	<1	7	0.8	<1
			5	<0.01	1.27	2	<0.2	7	1	<0.1	7	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	1	--
		Middle	5	<0.01	0.89	2	<0.2	10	1	<0.1	3	<1	7	0.7	<1
			4	<0.01	0.89	2	<0.2	<1	<1	<0.1	7	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	8	1	--
		Bottom	11	0.02	0.49	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			12	0.02	0.49	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	5	0.05	0.64	2	<0.2	8	<1	<0.1	2	<1	4	1.1	<1
			6	0.05	0.66	2	<0.2	8	<1	<0.1	2	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Middle	8	0.06	0.5	2	<0.2	4	1	<0.1	1	<1	6	1.2	<1
			8	0.06	0.51	2	<0.2	2	<1	<0.1	1	<1	5	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Bottom	7	0.04	0.37	2	<0.2	<1	<1	<0.1	1	<1	<4	0.7	<1
			8	0.05	0.36	2	<0.2	<1	<1	<0.1	1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
2009/08/06	Mid-ebb	Surface	7	0.08	0.83	2	<0.2	2	<1	<0.1	2	<1	4	1.6	<1
			6	0.08	0.84	2	<0.2	3	<1	<0.1	3	<1	8	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Middle	7	0.07	0.78	2	<0.2	2	<1	<0.1	2	<1	<4	1.5	<1
			8	0.07	0.77	2	<0.2	2	<1	<0.1	4	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	15	0.06	0.69	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			13	0.06	0.67	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	12	0.09	0.94	2	<0.2	3	<1	<0.1	2	<1	4	0.9	<1
			14	0.1	0.98	2	<0.2	4	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	0.8	--
		Middle	8	0.08	0.79	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			6	0.08	0.79	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	24	0.07	0.56	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			26	0.07	0.52	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D22 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.1	3	<0.2	2	<1	<0.1	2	<1	5	1.3	<1
			5	<0.01	1.11	4	<0.2	2	<1	<0.1	2	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Middle	6	0.04	1.14	3	<0.2	5	<1	<0.1	2	<1	7	1.7	<1
			7	0.05	1.04	3	<0.2	4	<1	<0.1	2	<1	10	1.1	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Bottom	23	0.07	0.74	3	<0.2	8	2	<0.1	2	<1	10	0.6	<1
			22	0.07	0.73	3	<0.2	4	2	<0.1	2	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	13	0.5	--
	Mid-flood	Surface	9	0.03	1.32	3	<0.2	4	<1	<0.1	<1	<1	<4	<0.5	<1
			8	0.02	1.3	2	<0.2	4	<1	<0.1	3	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Middle	30	0.14	1.11	2	<0.2	13	<1	<0.1	<1	<1	<4	<0.5	1
			30	0.14	1.14	3	<0.2	12	3	<0.1	4	<1	18	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	79	0.08	0.98	4	<0.2	21	6	<0.1	3	<1	18	<0.5	2
			71	0.08	0.99	3	<0.2	11	4	<0.1	3	<1	17	<0.5	2
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
2009/08/12	Mid-ebb	Surface	3	0.13	1.47	3	<0.2	5	<1	<0.1	4	<1	8	0.8	<1
			4	0.13	1.47	3	<0.2	8	1	<0.1	3	<1	10	1	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
		Middle	4	0.04	0.87	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			5	0.04	0.87	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	8	0.05	0.79	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			7	0.06	0.78	2	<0.2	5	<1	<0.1	4	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
	Mid-flood	Surface	8	0.05	0.87	3	<0.2	3	<1	<0.1	2	<1	7	0.6	<1
			9	0.06	0.88	2	<0.2	4	<1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Middle	24	0.05	0.79	2	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			26	0.05	0.77	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	80	0.06	0.56	3	<0.2	9	3	<0.1	2	<1	10	0.6	2
			75	0.06	0.57	2	<0.2	5	3	<0.1	2	<1	10	0.8	1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
2009/08/14	Mid-ebb	Surface	5	0.06	1.08	2	<0.2	3	<1	<0.1	2	<1	4	1.7	<1
			6	0.08	1.1	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.8	--
		Middle	7	0.06	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	1.8	<1
			6	0.06	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Bottom	11	0.08	0.65	2	<0.2	22	1	<0.1	2	<1	16	1.2	<1
			12	0.1	0.68	<2	<0.2	22	1	<0.1	2	<1	16	1.2	<1
			--	--	--	--	--	--	--	--	--	--	18	1.7	--

Annex D22 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	10	0.07	0.94	2	<0.2	3	<1	<0.1	2	<1	<4	1.7	<1
			9	0.07	0.94	2	<0.2	2	<1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Middle	27	0.07	0.65	2	<0.2	2	1	<0.1	2	<1	<4	1.3	<1
			30	0.07	0.64	3	<0.2	2	1	<0.1	2	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	4	1.4	--
		Bottom	41	0.07	0.57	4	<0.2	2	1	<0.1	2	<1	7	1.4	<1
			41	0.07	0.57	2	<0.2	2	1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.4	--
2009/08/16	Mid-ebb	Surface	5	0.03	1.31	3	<0.2	7	2	<0.1	3	<1	9	1.5	<1
			7	0.03	1.32	2	<0.2	3	<1	<0.1	3	<1	8	1.8	<1
			--	--	--	--	--	--	--	--	--	--	8	1.3	--
		Middle	4	0.06	0.81	2	<0.2	4	1	<0.1	2	<1	8	1.2	<1
			4	0.05	0.8	2	<0.2	4	1	<0.1	2	<1	6	1.7	<1
			--	--	--	--	--	--	--	--	--	--	7	1.8	--
		Bottom	17	0.1	0.75	2	<0.2	11	2	<0.1	2	<1	12	1.3	<1
			16	0.08	0.7	2	<0.2	12	2	<0.1	2	<1	13	1.1	<1
			--	--	--	--	--	--	--	--	--	--	22	0.9	--
	Mid-flood	Surface	6	0.03	1.29	3	<0.2	4	<1	<0.1	4	<1	4	1.7	<1
			6	0.03	1.26	2	<0.2	6	1	<0.1	3	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
		Middle	11	0.03	0.72	2	<0.2	4	1	<0.1	2	<1	5	1.3	<1
			12	0.02	0.73	2	<0.2	4	<1	<0.1	2	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	8	0.8	--
		Bottom	13	0.03	0.48	<2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			14	0.03	0.53	<2	<0.2	1	1	<0.1	1	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	7	0.02	1.06	2	<0.2	2	<1	<0.1	3	<1	<4	1.6	<1
			6	0.01	1.05	2	<0.2	2	<1	<0.1	3	<1	6	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.5	--
		Middle	13	0.01	0.59	2	<0.2	14	1	<0.1	2	<1	7	0.6	<1
			13	0.01	0.59	2	<0.2	14	1	<0.1	2	<1	8	0.7	<1
			--	--	--	--	--	--	--	--	--	--	10	0.8	--
		Bottom	43	0.01	0.54	3	<0.2	2	2	<0.1	5	<1	6	1.1	<1
			48	<0.01	0.51	3	<0.2	2	2	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	14	<0.01	0.79	2	<0.2	6	<1	<0.1	3	<1	5	1.2	<1
			16	<0.01	0.77	2	<0.2	7	<1	<0.1	3	<1	8	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	17	0.03	0.67	2	<0.2	4	1	<0.1	2	<1	14	1.1	<1
			19	0.03	0.67	3	<0.2	4	1	<0.1	2	<1	16	0.9	<1
			--	--	--	--	--	--	--	--	--	--	8	1.1	--
		Bottom	72	0.04	0.55	3	<0.2	3	2	<0.1	2	<1	6	1	1
			69	0.04	0.54	3	<0.2	3	3	<0.1	3	<1	8	1.1	1
			--	--	--	--	--	--	--	--	--	--	8	0.9	--

Annex D22 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	7	0.04	0.98	2	<0.2	<1	<1	<0.1	2	<1	<4	1.4	<1
			6	0.04	1	2	<0.2	2	<1	<0.1	3	<1	7	1.1	<1
			--	--	--	--	--	--	--	--	--	--	8	1.3	--
		Middle	18	0.03	0.82	2	<0.2	3	<1	<0.1	3	<1	4	1.1	<1
			18	0.03	0.81	2	<0.2	<1	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	38	0.02	0.72	2	<0.2	<1	1	<0.1	2	<1	5	0.9	1
			44	0.03	0.72	2	<0.2	2	2	<0.1	3	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
	Mid-flood	Surface	10	0.06	0.95	2	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			9	0.06	0.95	2	<0.2	4	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	12	0.06	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			11	0.05	0.87	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	13	0.05	0.85	2	<0.2	1	<1	<0.1	2	<1	<4	0.8	<1
			13	0.05	0.84	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.7	--
2009/08/23	Mid-ebb	Surface	8	<0.01	0.82	2	<0.2	7	<1	<0.1	2	<1	6	0.9	<1
			9	<0.01	0.83	2	<0.2	4	<1	<0.1	2	<1	22	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	1	--
		Middle	12	0.03	0.81	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			12	0.03	0.75	2	<0.2	2	<1	<0.1	2	<1	4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	37	0.05	0.66	2	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			36	0.04	0.63	3	<0.2	2	2	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
	Mid-flood	Surface	9	0.04	0.92	2	<0.2	5	<1	<0.1	3	<1	5	0.6	<1
			9	0.04	0.92	2	<0.2	9	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	15	0.04	0.86	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			16	0.05	0.89	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	26	0.05	0.87	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			26	0.05	0.86	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.5	--

Annex D23 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAA

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.32	2	<0.2	19	1	<0.1	4	<1	18	1.2	--
			5	<0.01	1.32	2	<0.2	13	1	<0.1	4	<1	20	0.9	--
			--	--	--	--	--	--	--	--	--	--	14	1.1	--
		Middle	8	0.03	0.85	3	<0.2	3	1	<0.1	3	<1	19	<0.5	--
			7	0.03	0.85	2	<0.2	2	<1	<0.1	3	<1	31	<0.5	--
			--	--	--	--	--	--	--	--	--	--	36	<0.5	--
		Bottom	7	0.05	0.75	<2	<0.2	1	<1	<0.1	3	<1	41	<0.5	--
			7	0.05	0.78	<2	<0.2	1	<1	<0.1	3	<1	32	<0.5	--
			--	--	--	--	--	--	--	--	--	--	38	<0.5	--
	Mid-flood	Surface	5	0.02	1.15	2	<0.2	1	<1	<0.1	3	<1	27	0.5	<1
			3	0.02	1.15	<2	<0.2	2	<1	<0.1	3	<1	21	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	47	0.9	<1
		Middle	4	0.04	0.88	<2	<0.2	1	<1	<0.1	3	<1	10	<0.5	<1
			4	0.04	0.86	<2	<0.2	1	<1	<0.1	2	<1	12	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	22	<0.5	<1
		Bottom	22	0.05	0.71	<2	<0.2	1	<1	<0.1	2	<1	29	<0.5	<1
			18	0.05	0.71	<2	<0.2	1	<1	<0.1	2	<1	42	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	20	<0.5	<1
2009/07/30	Mid-ebb	Surface	7	<0.01	1	<2	<0.2	7	<1	<0.1	2	<1	5	1.1	<1
			6	<0.01	1.02	<2	<0.2	6	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Middle	8	0.02	0.71	<2	<0.2	4	<1	<0.1	1	<1	<4	0.8	<1
			11	0.03	0.71	<2	<0.2	3	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	10	0.03	0.68	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			9	0.03	0.68	<2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	5	<0.01	1.08	<2	<0.2	12	<1	<0.1	2	<1	6	1.6	<1
			4	<0.01	1.08	2	<0.2	13	<1	<0.1	2	<1	6	1.8	<1
			--	--	--	--	--	--	--	--	--	--	6	1.4	--
		Middle	8	0.03	0.79	<2	<0.2	3	<1	<0.1	2	<1	4	0.9	<1
			10	0.04	0.78	<2	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	10	0.04	0.65	<2	<0.2	1	<1	<0.1	2	<1	4	0.6	<1
			12	0.05	0.65	<2	<0.2	1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
2009/08/01	Mid-ebb	Surface	3	<0.01	1.26	2	<0.2	11	<1	<0.1	3	<1	7	0.7	<1
			3	<0.01	1.08	5	<0.2	13	<1	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Middle	7	0.05	0.64	2	<0.2	2	<1	<0.1	1	<1	5	0.7	<1
			6	0.05	0.64	<2	<0.2	5	<1	<0.1	2	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	11	0.06	0.46	2	<0.2	1	<1	<0.1	1	<1	4	0.6	<1
			8	0.04	0.44	<2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D23 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	<0.01	1.39	2	<0.2	8	2	<0.1	3	<1	9	0.8	<1
			5	<0.01	1.34	2	<0.2	6	<1	<0.1	3	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
		Middle	8	0.02	0.74	<2	<0.2	9	2	<0.1	2	<1	10	0.5	<1
			6	0.01	0.71	2	<0.2	9	1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	12	<0.5	--
		Bottom	19	0.07	0.55	2	<0.2	2	1	<0.1	2	<1	6	0.6	<1
			16	0.07	0.56	2	<0.2	2	1	<0.1	2	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.5	--
2009/08/04	Mid-ebb	Surface	4	0.03	0.69	3	<0.2	7	2	<0.1	2	<1	12	1.1	1
			5	0.03	0.69	3	<0.2	6	1	<0.1	2	<1	11	1.5	2
			--	--	--	--	--	--	--	--	--	--	18	1.1	--
		Middle	15	0.04	0.44	3	<0.2	7	<1	<0.1	1	<1	8	0.7	<1
			12	0.04	0.44	3	<0.2	8	<1	<0.1	2	<1	13	0.8	<1
			--	--	--	--	--	--	--	--	--	--	10	0.6	--
		Bottom	20	0.03	0.41	3	<0.2	1	<1	<0.1	1	<1	<4	1	<1
			24	0.03	0.39	2	<0.2	1	1	<0.1	2	<1	11	0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
	Mid-flood	Surface	5	0.04	0.79	3	<0.2	4	<1	<0.1	1	<1	<4	0.9	<1
			6	0.04	0.74	3	<0.2	7	<1	<0.1	2	<1	5	0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Middle	12	0.05	0.49	3	<0.2	3	<1	<0.1	2	<1	6	0.9	<1
			10	0.05	0.49	3	<0.2	2	1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	1	--
		Bottom	17	0.06	0.35	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			15	0.06	0.37	3	<0.2	2	1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/06	Mid-ebb	Surface	6	0.08	0.86	2	<0.2	6	<1	<0.1	2	<1	5	1.3	<1
			7	0.08	0.87	2	<0.2	6	<1	<0.1	2	<1	5	1.5	<1
			--	--	--	--	--	--	--	--	--	--	5	1.5	--
		Middle	7	0.09	0.81	2	<0.2	2	<1	<0.1	2	<1	4	1.4	<1
			5	0.09	0.81	2	<0.2	3	1	<0.1	2	<1	5	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	30	0.1	0.55	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			26	0.09	0.52	2	<0.2	2	1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	8	0.09	0.79	2	<0.2	3	<1	<0.1	2	<1	6	1.8	<1
			9	0.08	0.77	2	<0.2	4	<1	<0.1	2	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	8	1.4	--
		Middle	7	0.08	0.7	2	<0.2	3	<1	<0.1	2	<1	4	1	<1
			8	0.08	0.7	2	<0.2	3	<1	<0.1	2	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--
		Bottom	15	0.06	0.49	2	<0.2	2	<1	<0.1	2	<1	5	0.5	<1
			17	0.06	0.48	<2	<0.2	2	<1	<0.1	1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--

Annex D23 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/8	Mid-ebb	Surface	6	<0.01	1.05	2	<0.2	2	<1	<0.1	2	<1	6	1	<1
			4	<0.01	1.06	2	<0.2	2	<1	<0.1	2	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Middle	13	0.04	0.73	4	<0.2	6	<1	<0.1	2	<1	8	<0.5	<1
			13	0.04	0.74	3	<0.2	3	1	<0.1	2	<1	8	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Bottom	35	0.07	0.63	3	<0.2	13	3	<0.1	2	<1	12	0.6	1
			35	0.07	0.62	3	<0.2	17	3	<0.1	2	<1	18	0.7	1
			--	--	--	--	--	--	--	--	--	--	14	0.5	--
	Mid-flood	Surface	8	0.04	1.25	2	<0.2	5	<1	<0.1	2	<1	4	<0.5	<1
			9	0.06	1.3	4	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.06	1.04	4	<0.2	12	1	<0.1	2	<1	10	<0.5	<1
			6	0.08	1.12	3	<0.2	13	1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	22	0.11	0.84	3	<0.2	22	2	<0.1	4	<1	17	<0.5	<1
			19	0.13	0.85	2	<0.2	10	2	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.18	1.36	2	<0.2	6	<1	<0.1	<1	<1	5	0.8	<1
			5	0.18	1.36	3	<0.2	6	<1	<0.1	3	<1	8	0.7	<1
			--	--	--	--	--	--	--	--	--	--	9	0.8	--
		Middle	9	0.03	0.69	3	<0.2	2	<1	<0.1	<1	<1	<4	0.6	<1
			10	0.03	0.69	2	<0.2	3	<1	<0.1	2	<1	12	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Bottom	17	0.04	0.64	3	<0.2	1	<1	<0.1	<1	<1	<4	0.5	<1
			16	0.04	0.65	2	<0.2	1	<1	<0.1	2	<1	26	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.04	0.82	2	<0.2	7	<1	<0.1	2	<1	<4	0.7	<1
			7	0.04	0.83	2	<0.2	6	<1	<0.1	2	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--
		Middle	7	0.04	0.68	3	<0.2	5	<1	<0.1	1	<1	4	<0.5	<1
			7	0.04	0.68	2	<0.2	6	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Bottom	16	0.04	0.55	2	<0.2	1	<1	<0.1	1	<1	<4	0.6	<1
			17	0.04	0.54	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
2009/08/14	Mid-ebb	Surface	5	0.08	1.08	2	<0.2	2	<1	<0.1	3	<1	4	1	<1
			4	0.08	1.09	2	<0.2	4	<1	<0.1	3	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Middle	8	0.06	0.7	3	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			8	0.06	0.7	<2	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	14	0.08	0.64	2	<0.2	23	2	<0.1	2	<1	14	1.6	<1
			14	0.09	0.64	3	<0.2	21	2	<0.1	2	<1	17	1.9	<1
			--	--	--	--	--	--	--	--	--	--	16	1.9	--

Annex D23 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	4	0.06	0.97	2	<0.2	6	<1	<0.1	2	<1	8	1.1	<1
			6	0.06	0.97	2	<0.2	7	<1	<0.1	2	<1	8	0.8	<1
			--	--	--	--	--	--	--	--	--	--	12	1	--
		Middle	6	0.06	0.75	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			6	0.06	0.75	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	14	0.04	0.54	2	<0.2	<1	<1	<0.1	1	<1	<4	1	<1
			15	0.04	0.55	2	<0.2	1	<1	<0.1	1	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
2009/08/16	Mid-ebb	Surface	4	0.02	1.33	3	<0.2	11	1	<0.1	3	<1	9	1.8	<1
			4	0.02	1.33	2	<0.2	4	1	<0.1	4	<1	7	1.6	<1
			--	--	--	--	--	--	--	--	--	--	7	1.7	--
		Middle	16	0.04	0.57	2	<0.2	4	2	<0.1	2	<1	6	1.2	<1
			15	0.05	0.58	2	<0.2	4	2	<0.1	2	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	10	1.6	--
		Bottom	28	0.07	0.41	3	<0.2	2	2	<0.1	1	<1	6	0.7	<1
			26	0.06	0.41	<2	<0.2	2	1	<0.1	1	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	4	<0.01	1.03	<2	<0.2	2	<1	<0.1	2	<1	<4	1.8	<1
			6	<0.01	0.91	<2	<0.2	2	<1	<0.1	2	<1	11	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Middle	6	0.02	0.72	2	<0.2	1	<1	<0.1	1	<1	<4	1.7	<1
			6	0.02	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	14	1.5	--
		Bottom	14	0.06	0.61	2	<0.2	8	<1	<0.1	1	<1	8	1.7	<1
			15	0.06	0.62	3	<0.2	7	<1	<0.1	1	<1	19	1.7	<1
			--	--	--	--	--	--	--	--	--	--	14	1.4	--
2009/08/18	Mid-ebb	Surface	6	0.04	0.86	2	<0.2	3	<1	<0.1	2	<1	5	1.3	<1
			7	0.05	0.86	2	<0.2	2	<1	<0.1	2	<1	5	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	26	0.02	0.53	2	<0.2	3	1	<0.1	2	<1	7	1.2	<1
			27	0.02	0.52	3	<0.2	3	1	<0.1	4	<1	10	1.6	<1
			--	--	--	--	--	--	--	--	--	--	6	1.5	--
		Bottom	36	0.03	0.53	3	<0.2	14	4	<0.1	7	<1	17	2.1	1
			37	0.02	0.53	3	<0.2	12	3	<0.1	3	<1	19	2.3	1
			--	--	--	--	--	--	--	--	--	--	14	2.1	--
	Mid-flood	Surface	12	0.03	0.74	2	<0.2	4	<1	<0.1	2	<1	4	1.4	<1
			10	0.02	0.74	2	<0.2	3	3	<0.1	2	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	10	0.03	0.65	2	<0.2	3	<1	<0.1	2	<1	6	1.2	<1
			11	0.03	0.65	2	<0.2	3	1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Bottom	42	0.08	0.55	2	<0.2	20	2	<0.1	2	<1	13	1.1	1
			36	0.07	0.53	2	<0.2	18	2	<0.1	3	<1	14	1.2	1
			--	--	--	--	--	--	--	--	--	--	16	1.4	--

Annex D23 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	10	0.05	0.65	2	<0.2	<1	<1	<0.1	2	<1	<4	1	2
			11	0.05	0.68	2	<0.2	3	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	46	0.05	0.93	3	<0.2	4	2	<0.1	3	<1	8	0.9	1
			46	0.05	0.93	3	<0.2	<1	2	<0.1	2	<1	6	0.9	1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	42	0.07	0.77	3	<0.2	<1	1	<0.1	2	<1	5	0.6	<1
			45	0.05	0.75	3	<0.2	3	2	<0.1	3	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	21	0.06	0.64	2	<0.2	5	1	<0.1	2	<1	5	0.7	<1
			22	0.05	0.6	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Middle	9	0.06	0.88	2	<0.2	3	3	<0.1	2	<1	<4	1.1	<1
			10	0.06	0.88	2	<0.2	6	<1	<0.1	3	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	8	0.06	0.97	2	<0.2	2	<1	<0.1	3	<1	9	1.2	<1
			7	0.06	0.96	2	<0.2	5	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
2009/08/23	Mid-ebb	Surface	28	0.03	0.78	2	<0.2	8	1	<0.1	3	<1	7	0.9	<1
			31	0.05	0.79	3	<0.2	8	1	<0.1	2	<1	8	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Middle	48	0.03	0.66	3	<0.2	8	2	<0.1	3	<1	14	1	1
			47	0.02	0.64	3	<0.2	12	2	<0.1	3	<1	19	0.6	1
			--	--	--	--	--	--	--	--	--	--	8	0.8	--
		Bottom	82	0.04	0.73	3	<0.2	12	4	<0.1	3	<1	14	1.6	2
			108	0.03	0.64	3	<0.2	18	3	<0.1	3	<1	15	1.1	2
			--	--	--	--	--	--	--	--	--	--	13	1.5	--
	Mid-flood	Surface	10	0.04	0.84	2	<0.2	5	<1	<0.1	2	<1	6	0.9	<1
			10	0.05	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Middle	31	0.05	0.69	3	<0.2	2	1	<0.1	2	<1	5	0.7	<1
			28	0.05	64	2	<0.2	2	<1	<0.1	2	<1	6	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	65	0.05	0.66	3	<0.2	3	2	<0.1	3	<1	8	<0.5	1
			68	0.05	0.65	3	<0.2	2	2	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D24 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAB

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	3	<0.01	1.26	<2	<0.2	2	<1	<0.1	3	<1	12	1.1	<1
			4	<0.01	1.26	<2	<0.2	2	<1	<0.1	3	<1	15	1	<1
			--	--	--	--	--	--	--	--	--	--	42	1.1	<1
		Middle	6	0.04	0.93	2	<0.2	3	<1	<0.1	3	<1	8	0.6	<1
			4	0.04	0.94	<2	<0.2	5	<1	<0.1	3	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	9	0.5	<1
		Bottom	6	0.04	0.73	<2	<0.2	4	<1	<0.1	3	<1	18	0.6	<1
			6	0.05	0.75	<2	<0.2	4	<1	<0.1	3	<1	11	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	<1
	Mid-flood	Surface	5	<0.01	1.38	2	<0.2	2	<1	<0.1	3	<1	48	<0.5	<1
			4	<0.01	1.39	2	<0.2	2	<1	<0.1	3	<1	21	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	26	0.5	<1
		Middle	7	0.04	0.98	<2	<0.2	3	<1	<0.1	3	<1	27	<0.5	<1
			8	0.03	0.95	2	<0.2	3	<1	<0.1	3	<1	16	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	21	<0.5	<1
		Bottom	18	0.05	0.84	<2	<0.2	4	1	<0.1	3	<1	34	<0.5	<1
			18	0.06	0.8	<2	<0.2	3	<1	<0.1	3	<1	33	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	29	<0.5	<1
2009/07/30	Mid-ebb	Surface	<2	<0.01	1.06	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			<2	<0.01	1.06	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	7	0.03	0.73	<2	<0.2	3	<1	<0.1	2	<1	<4	0.7	<1
			8	0.03	0.74	<2	<0.2	3	1	<0.1	2	<1	21	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	8	0.03	0.67	<2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			8	0.03	0.67	<2	<0.2	3	1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
	Mid-flood	Surface	3	<0.01	1.15	2	<0.2	2	<1	<0.1	3	<1	5	0.9	<1
			4	<0.01	1.14	<2	<0.2	3	<1	<0.1	4	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--
		Middle	4	0.02	0.77	<2	<0.2	4	<1	<0.1	3	<1	8	0.8	<1
			4	0.02	0.79	<2	<0.2	7	1	<0.1	3	<1	10	0.8	2
			--	--	--	--	--	--	--	--	--	--	10	0.6	--
		Bottom	4	0.02	0.73	<2	<0.2	2	<1	<0.1	2	<1	7	0.7	<1
			7	0.02	0.74	<2	<0.2	2	<1	<0.1	2	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	15	0.6	--
2009/08/01	Mid-ebb	Surface	8	<0.01	1.27	2	<0.2	4	<1	<0.1	3	<1	20	1.3	<1
			8	<0.01	1.26	2	<0.2	4	<1	<0.1	3	<1	4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	3	0.03	0.71	2	<0.2	4	2	<0.1	2	<1	11	1.5	<1
			3	0.02	0.72	3	<0.2	7	2	<0.1	2	<1	20	0.9	<1
			--	--	--	--	--	--	--	--	--	--	21	1.3	--
		Bottom	11	0.04	0.48	2	<0.2	5	1	<0.1	2	<1	9	<0.5	<1
			12	0.04	0.48	2	<0.2	5	2	<0.1	3	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--

Annex D24 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	<0.01	1.45	<2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			3	<0.01	1.47	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	7	0.03	0.64	3	<0.2	3	1	<0.1	2	<1	5	<0.5	<1
			8	0.03	0.64	3	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	11	0.04	0.57	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			10	0.04	0.57	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	11	0.09	0.38	<2	<0.2	3	2	<0.1	1	<1	6	0.7	<1
			10	0.09	0.36	2	<0.2	3	2	<0.1	1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/06	Mid-ebb	Surface	7	0.05	1.13	2	<0.2	2	<1	<0.1	3	<1	<4	3.5	<1
			7	0.06	1.15	2	0.3	2	<1	<0.1	3	<1	<4	2.3	<1
			--	--	--	--	--	--	--	--	--	--	4	3.8	--
		Middle	18	0.1	0.83	2	<0.2	3	1	<0.1	2	<1	4	3.2	<1
			18	0.1	0.81	2	<0.2	3	1	<0.1	3	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	2.4	--
		Bottom	27	0.1	0.81	2	<0.2	3	1	<0.1	2	<1	4	2.9	<1
			24	0.1	0.78	3	<0.2	5	1	<0.1	5	<1	13	2.4	<1
			--	--	--	--	--	--	--	--	--	--	5	2.3	--
	Mid-flood	Surface	11	0.08	1.04	3	<0.2	3	<1	<0.1	3	<1	<4	1.7	<1
			10	0.07	1.04	2	<0.2	3	<1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	7	0.12	0.68	3	<0.2	3	1	<0.1	2	<1	<4	1.2	<1
			6	0.1	0.65	2	<0.2	3	3	<0.1	2	<1	<4	1.6	1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	14	0.11	0.61	2	<0.2	4	5	<0.1	2	<1	7	1.7	1
			16	0.1	0.6	2	<0.2	5	5	<0.1	2	<1	8	1.6	1
			--	--	--	--	--	--	--	--	--	--	7	1.8	--

Annex D24 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	0.04	1.17	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			7	0.04	1.18	3	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Middle	19	0.07	0.78	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			18	0.08	0.79	4	<0.2	4	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	0.07	0.76	2	<0.2	5	3	<0.1	2	<1	7	<0.5	1
			28	0.07	0.75	3	<0.2	3	2	<0.1	2	<1	5	<0.5	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	9	0.05	1.07	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.04	1.06	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	9	0.07	0.83	3	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			10	0.06	0.83	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	13	0.12	0.61	3	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			11	0.12	0.6	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	6	0.13	1.17	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.13	1.16	<2	<0.2	1	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	12	0.02	0.58	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			11	0.03	0.58	<2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	40	0.03	0.55	<2	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			41	0.02	0.54	3	<0.2	2	2	<0.1	2	<1	5	<0.5	1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	6	0.11	0.97	3	<0.2	2	3	<0.1	2	<1	5	<0.5	<1
			6	0.12	0.97	3	<0.2	3	3	<0.1	3	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Middle	7	0.05	0.68	2	<0.2	3	1	<0.1	2	<1	5	<0.5	<1
			8	0.05	0.67	2	<0.2	2	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	13	0.05	0.55	2	<0.2	5	2	<0.1	2	<1	7	0.6	<1
			15	0.07	0.58	2	<0.2	5	2	<0.1	2	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/14	Mid-ebb	Surface	5	0.13	1.26	3	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			5	0.13	1.25	3	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	10	0.04	0.62	2	<0.2	5	1	<0.1	2	<1	<4	0.6	<1
			11	0.04	0.62	2	<0.2	3	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	15	0.05	0.54	2	<0.2	2	<1	<0.1	1	<1	<4	1	<1
			15	0.05	0.54	2	<0.2	2	<1	<0.1	1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--

Annex D24 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.1	1.13	2	<0.2	2	<1	<0.1	3	<1	11	<0.5	<1
			6	0.11	1.13	2	<0.2	2	1	<0.1	3	<1	5	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	7	0.12	0.93	2	<0.2	7	<1	<0.1	2	<1	6	1.2	<1
			7	0.13	0.92	2	<0.2	8	1	<0.1	2	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	14	0.05	0.63	2	<0.2	3	1	<0.1	2	<1	4	0.6	<1
			13	0.06	0.66	2	<0.2	3	1	<0.1	2	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
2009/08/16	Mid-ebb	Surface	4	<0.01	1.27	3	<0.2	3	<1	<0.1	3	<1	9	1.8	<1
			5	<0.01	1.25	2	<0.2	3	<1	<0.1	3	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.9	--
		Middle	7	0.01	0.55	2	<0.2	1	<1	<0.1	3	<1	<4	1.4	<1
			8	0.01	0.57	2	<0.2	2	1	<0.1	1	<1	10	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	48	<0.01	0.44	<2	<0.2	4	3	<0.1	3	<1	7	1.4	1
			48	<0.01	0.43	3	<0.2	3	2	<0.1	2	<1	7	1.4	1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
	Mid-flood	Surface	6	0.02	1.22	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			5	0.02	1.22	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	7	0.04	0.68	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			9	0.05	0.69	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	13	0.06	0.66	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			12	0.07	0.67	2	<0.2	2	<1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	5	0.03	1	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			6	0.03	0.99	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Middle	18	0.02	0.58	2	<0.2	3	1	<0.1	2	<1	5	0.7	<1
			16	0.02	0.58	2	<0.2	3	<1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	32	<0.01	0.49	3	<0.2	3	2	<0.1	2	<1	6	0.7	1
			33	<0.01	0.49	2	<0.2	3	2	<0.1	2	<1	6	0.6	1
			--	--	--	--	--	--	--	--	--	--	5	0.7	--
	Mid-flood	Surface	6	<0.01	0.92	2	<0.2	2	3	<0.1	2	<1	5	1.3	<1
			6	<0.01	0.92	2	<0.2	3	3	<0.1	3	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	7	1.6	--
		Middle	16	0.04	0.62	2	<0.2	3	1	<0.1	2	<1	5	1	<1
			17	0.04	0.62	2	<0.2	3	1	<0.1	2	<1	7	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Bottom	24	0.04	0.56	2	<0.2	5	2	<0.1	2	<1	7	0.5	<1
			23	0.03	0.55	2	<0.2	5	2	<0.1	2	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1.3	--

Annex D24 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	10	0.04	1.06	3	<0.2	2	1	<0.1	2	<1	<4	1.8	<1
			11	0.04	1.06	2	<0.2	2	1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	19	0.08	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	1.9	<1
			19	0.08	0.84	2	<0.2	3	1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Bottom	46	0.08	0.81	3	<0.2	3	2	<0.1	2	<1	7	1.4	<1
			46	0.08	0.8	3	<0.2	2	2	<0.1	2	<1	5	1.8	1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
	Mid-flood	Surface	8	0.08	1.18	2	<0.2	2	3	<0.1	3	<1	<4	0.9	<1
			8	0.08	1.18	2	<0.2	3	2	<0.1	3	<1	10	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Middle	16	0.09	0.82	2	<0.2	6	1	<0.1	2	<1	6	1.1	<1
			16	0.08	0.81	2	<0.2	6	1	<0.1	2	<1	11	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Bottom	25	0.1	0.66	2	<0.2	2	1	<0.1	2	<1	8	1.1	1
			23	0.08	0.64	2	<0.2	2	<1	<0.1	2	<1	5	0.7	2
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
2009/08/23	Mid-ebb	Surface	8	0.05	1.01	2	<0.2	1	<1	<0.1	3	<1	<4	0.6	<1
			8	0.05	1.01	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	14	0.07	0.9	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			13	0.05	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	38	0.04	0.75	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			36	0.04	0.74	2	<0.2	1	<1	<0.1	5	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	9	0.06	1.14	<2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			8	0.06	1.14	2	<0.2	3	2	<0.1	4	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	16	0.09	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			15	0.07	0.84	2	<0.2	5	<1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	108	0.1	0.62	4	<0.2	5	5	<0.1	3	<1	11	1.8	3
			112	0.12	0.64	<2	<0.2	5	5	<0.1	3	<1	10	1.8	3
			--	--	--	--	--	--	--	--	--	--	11	1.5	--

Annex D25 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAC

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	3	<0.01	1.26	<2	<0.2	2	<1	<0.1	3	<1	30	1	--
			3	<0.01	1.25	<2	<0.2	4	1	<0.1	4	<1	38	1	--
			--	--	--	--	--	--	--	--	--	--	43	1	--
		Middle	6	0.03	0.92	<2	<0.2	2	<1	<0.1	3	<1	39	0.6	--
			4	0.03	0.93	<2	<0.2	2	<1	<0.1	3	<1	10	0.6	--
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
		Bottom	24	0.05	0.74	<2	<0.2	3	1	<0.1	3	<1	10	0.6	--
			24	0.05	0.75	2	<0.2	3	2	<0.1	3	<1	17	0.6	--
			--	--	--	--	--	--	--	--	--	--	10	0.6	--
	Mid-flood	Surface	6	<0.01	1.29	2	<0.2	4	1	<0.1	4	<1	44	<0.5	<1
			5	<0.01	1.3	<2	<0.2	3	1	<0.1	4	<1	30	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	28	<0.5	<1
		Middle	8	0.03	1.01	2	<0.2	5	<1	<0.1	3	<1	49	<0.5	<1
			7	0.03	1.01	<2	<0.2	4	<1	<0.1	3	<1	35	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	33	<0.5	<1
		Bottom	19	0.04	0.9	2	<0.2	11	1	<0.1	3	<1	45	<0.5	<1
			20	0.04	0.89	2	<0.2	11	1	<0.1	3	<1	47	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	44	<0.5	<1
2009/07/30	Mid-ebb	Surface	2	<0.01	1.1	<2	<0.2	2	<1	<0.1	2	<1	4	0.7	<1
			<2	<0.01	1.11	<2	<0.2	1	3	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Middle	6	<0.01	0.82	<2	<0.2	3	<1	<0.1	2	<1	<4	0.7	<1
			5	<0.01	0.8	<2	<0.2	4	1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	4	0.02	0.74	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			5	0.03	0.71	<2	<0.2	3	1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	3	<0.01	1.23	<2	<0.2	3	<1	<0.1	3	<1	<4	0.6	<1
			4	<0.01	1.18	<2	<0.2	3	<1	<0.1	4	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	6	<0.01	0.83	<2	<0.2	11	2	<0.1	4	<1	11	0.7	<1
			3	<0.01	0.85	<2	<0.2	14	3	<0.1	4	<1	12	0.9	2
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Bottom	4	0.02	0.77	<2	<0.2	4	<1	<0.1	2	<1	6	0.5	<1
			6	0.02	0.77	<2	<0.2	4	2	<0.1	4	<1	12	0.8	<1
			--	--	--	--	--	--	--	--	--	--	10	1	--
2009/08/01	Mid-ebb	Surface	3	<0.01	1.39	3	<0.2	3	<1	<0.1	3	<1	<4	1.4	<1
			4	<0.01	1.39	3	<0.2	4	<1	<0.1	3	<1	4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.4	--
		Middle	7	0.02	0.54	<2	<0.2	6	1	<0.1	2	<1	6	1.2	<1
			6	0.02	0.57	2	<0.2	7	4	<0.1	2	<1	8	1.2	2
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Bottom	14	0.05	0.66	2	<0.2	2	1	<0.1	2	<1	5	1.2	<1
			12	0.05	0.68	3	<0.2	3	<1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--

Annex D25 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	3	0.02	1.23	3	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			3	0.02	1.23	2	<0.2	4	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	6	0.01	0.71	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.02	0.73	<2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	9	0.03	0.63	<2	<0.2	4	1	<0.1	2	<1	4	<0.5	<1
			8	0.02	0.62	<2	<0.2	5	2	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	4	0.05	0.76	2	<0.2	4	2	<0.1	2	<1	<4	<0.5	<1
			5	0.04	0.67	<2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			5	0.04	0.76	2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			4	0.04	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	14	0.05	0.45	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			15	0.04	0.41	2	<0.2	4	3	<0.1	2	<1	4	<0.5	1
			12	0.05	0.47	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			16	0.05	0.39	2	<0.2	3	2	<0.1	2	<1	5	<0.5	2
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	12	0.04	0.46	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	1
			11	0.04	0.45	<2	<0.2	4	1	<0.1	2	<1	<4	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/06	Mid-ebb	Surface	8	0.04	1.14	2	0.5	4	1	<0.1	3	<1	4	2.1	<1
			7	0.04	1.15	2	0.4	3	<1	<0.1	3	<1	<4	3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	16	0.1	0.86	<2	<0.2	4	1	<0.1	3	<1	<4	2.4	<1
			18	0.1	0.87	2	<0.2	2	<1	<0.1	2	<1	<4	3.4	<1
			--	--	--	--	--	--	--	--	--	--	4	2	--
		Bottom	28	0.09	0.81	2	<0.2	2	<1	<0.1	2	<1	4	2.4	<1
			24	0.1	0.81	3	<0.2	3	1	<0.1	3	<1	5	3	<1
			--	--	--	--	--	--	--	--	--	--	6	1.8	--

Annex D25 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/06	Mid-flood	Surface	11	0.06	1.04	<2	<0.2	3	<1	<0.1	2	<1	<4	1.3	<1
			12	0.06	1.05	<2	<0.2	3	<1	<0.1	3	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	8	0.11	0.92	3	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			7	0.1	0.92	2	<0.2	2	1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Bottom	11	0.11	0.7	2	<0.2	2	6	<0.1	2	<1	8	1.2	1
			11	0.12	0.7	2	<0.2	2	4	<0.1	2	<1	4	1.2	1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
2009/08/08	Mid-ebb	Surface	5	<0.01	1.2	4	<0.2	2	<1	<0.1	2	<1	4	1.6	<1
			5	<0.01	1.18	3	<0.2	2	1	<0.1	2	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Middle	12	0.07	0.85	3	<0.2	5	1	<0.1	2	<1	5	0.6	<1
			10	0.07	0.84	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	0.06	0.73	3	<0.2	3	1	<0.1	2	<1	6	<0.5	<1
			25	0.06	0.73	2	<0.2	3	2	<0.1	2	<1	18	0.6	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	8	<0.01	1.13	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			6	0.01	1.13	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	10	0.06	0.88	3	<0.2	2	<1	<0.1	2	<1	7	<0.5	<1
			11	0.05	0.83	3	<0.2	2	2	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	26	0.08	0.7	3	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			28	0.09	0.68	3	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	5	0.15	1.15	2	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			4	0.14	1.16	<2	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	27	0.01	0.56	<2	<0.2	3	2	<0.1	2	<1	<4	<0.5	<1
			27	0.02	0.57	<2	<0.2	2	1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	22	0.01	0.55	<2	<0.2	2	1	<0.1	2	<1	4	0.5	<1
			25	0.02	0.57	<2	<0.2	2	1	<0.1	2	<1	4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
	Mid-flood	Surface	8	0.19	1.16	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			7	0.19	1.15	2	<0.2	5	1	<0.1	3	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	10	0.05	0.71	2	<0.2	3	<1	<0.1	3	<1	<4	<0.5	<1
			10	0.05	0.71	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	8	0.05	0.65	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.04	0.64	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D25 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-ebb	Surface	5	0.05	1.22	3	<0.2	5	1	<0.1	3	<1	<4	1.6	<1
			4	0.05	1.22	3	<0.2	1	<1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Middle	6	0.06	0.71	2	<0.2	3	<1	<0.1	2	<1	<4	1.3	<1
			6	0.07	0.71	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Bottom	11	0.05	0.65	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			13	0.06	0.65	2	<0.2	1	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
	Mid-flood	Surface	8	0.12	1.11	2	<0.2	5	1	<0.1	7	<1	9	0.8	<1
			9	0.11	1.11	2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	5	0.08	0.78	2	<0.2	5	<1	<0.1	2	<1	<4	0.9	<1
			5	0.08	0.79	2	<0.2	4	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Bottom	5	0.08	0.75	2	<0.2	3	<1	<0.1	2	<1	<4	0.6	<1
			5	0.07	0.74	2	<0.2	3	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	0.8	--
2009/08/16	Mid-ebb	Surface	5	0.01	1.14	3	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			6	0.01	1.13	<2	<0.2	3	<1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	7	0.03	0.6	3	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			9	0.02	0.57	3	<0.2	2	1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	<0.01	0.4	2	<0.2	2	1	<0.1	1	<1	5	0.8	<1
			26	<0.01	0.4	3	<0.2	2	2	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	5	0.01	1.34	2	<0.2	5	<1	<0.1	3	<1	6	1.6	<1
			5	<0.01	1.33	2	<0.2	1	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	6	0.03	0.92	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.03	0.91	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	11	0.08	0.73	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			11	0.08	0.72	2	<0.2	1	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
2009/08/18	Mid-ebb	Surface	6	0.02	1.09	2	<0.2	2	1	<0.1	3	<1	<4	1.2	<1
			6	0.02	1.09	2	<0.2	2	<1	<0.1	3	<1	7	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	16	<0.01	0.51	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			16	0.01	0.52	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	23	0.01	0.51	2	<0.2	2	1	<0.1	2	<1	<4	0.9	<1
			23	<0.01	0.5	2	<0.2	2	<1	<0.1	1	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--

Annex D25 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/18	Mid-flood	Surface	10	0.08	1.21	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			9	0.08	1.21	2	<0.2	6	1	<0.1	3	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	10	0.02	0.75	2	<0.2	3	<1	<0.1	3	<1	<4	1	<1
			11	0.02	0.74	2	<0.2	4	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	27	0.03	0.66	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			30	0.04	0.65	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
2009/08/21	Mid-ebb	Surface	7	0.02	1.08	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			7	0.02	1.08	2	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	23	0.07	0.83	2	<0.2	2	1	<0.1	2	<1	4	1.3	<1
			21	0.07	0.82	2	<0.2	4	2	<0.1	2	<1	4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Bottom	28	0.1	0.83	2	<0.2	3	2	<0.1	2	<1	5	1.6	<1
			27	0.08	0.82	2	<0.2	3	2	<0.1	3	<1	6	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
	Mid-flood	Surface	7	0.08	1.19	2	<0.2	3	2	<0.1	4	<1	5	1.2	<1
			7	0.07	1.17	2	<0.2	2	<1	<0.1	4	<1	8	0.8	<1
			--	--	--	--	--	--	--	--	--	--	10	1	--
		Middle	13	0.11	0.88	2	<0.2	3	<1	<0.1	2	<1	5	1.3	<1
			12	0.12	0.9	2	<0.2	5	1	<0.1	3	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	12	1.4	--
		Bottom	14	0.1	0.84	2	<0.2	3	1	<0.1	3	<1	5	1	<1
			13	0.09	0.84	2	<0.2	6	1	<0.1	2	<1	6	1.4	<1
			--	--	--	--	--	--	--	--	--	--	14	1.2	--
2009/08/23	Mid-ebb	Surface	7	0.04	1.04	3	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			8	0.04	1.04	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	20	0.06	0.83	2	<0.2	3	<1	<0.1	3	<1	<4	<0.5	<1
			18	0.06	0.83	2	<0.2	1	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	28	0.04	0.7	2	<0.2	1	<1	<0.1	2	<1	4	1	<1
			29	0.05	0.73	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	2
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	9	0.04	1.11	2	<0.2	1	<1	<0.1	3	<1	<4	0.8	<1
			8	0.05	1.13	2	<0.2	2	<1	<0.1	4	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	37	0.09	0.87	2	<0.2	2	1	<0.1	3	<1	4	1.5	<1
			35	0.09	0.89	3	<0.2	5	2	<0.1	3	<1	6	0.8	1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	97	0.06	0.65	4	<0.2	5	6	<0.1	4	<1	12	0.8	3
			105	0.06	0.68	4	<0.2	5	5	<0.1	3	<1	12	1.3	3
			--	--	--	--	--	--	--	--	--	--	13	1.7	--

Annex D26 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNAD

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.26	<2	<0.2	2	2	<0.1	4	<1	45	0.8	<1
			5	<0.01	1.25	<2	<0.2	2	2	<0.1	4	<1	39	0.9	<1
			--	--	--	--	--	--	--	--	--	--	31	1	<1
		Middle	2	0.02	0.93	<2	<0.2	2	<1	<0.1	3	<1	22	0.6	<1
			3	0.02	0.94	<2	<0.2	2	<1	<0.1	3	<1	19	0.8	<1
			--	--	--	--	--	--	--	--	--	--	25	0.8	<1
		Bottom	24	0.04	0.72	<2	<0.2	4	1	<0.1	8	<1	12	0.8	<1
			24	0.05	0.74	<2	<0.2	4	1	<0.1	8	<1	26	0.8	<1
			--	--	--	--	--	--	--	--	--	--	16	0.5	<1
	Mid-flood	Surface	6	<0.01	1.31	2	<0.2	4	1	<0.1	4	<1	57	<0.5	--
			5	<0.01	1.3	2	<0.2	4	1	<0.1	4	<1	30	<0.5	--
			--	--	--	--	--	--	--	--	--	--	46	0.6	--
		Middle	8	0.03	1.09	2	<0.2	4	<1	<0.1	3	<1	47	<0.5	--
			7	0.04	1.11	<2	<0.2	4	<1	<0.1	3	<1	42	<0.5	--
			--	--	--	--	--	--	--	--	--	--	55	<0.5	--
		Bottom	8	0.04	1.08	2	<0.2	12	1	<0.1	3	<1	40	0.9	--
			9	0.05	1.09	<2	<0.2	16	1	<0.1	3	<1	43	1.1	--
			--	--	--	--	--	--	--	--	--	--	11	0.6	--
2009/07/30	Mid-ebb	Surface	4	<0.01	1.17	<2	<0.2	5	<1	<0.1	3	<1	6	0.8	<1
			3	<0.01	1.16	2	<0.2	6	<1	<0.1	3	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	4	<0.01	1.01	<2	<0.2	2	<1	<0.1	6	<1	<4	0.6	<1
			3	<0.01	1	<2	<0.2	5	<1	<0.1	4	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Bottom	3	<0.01	0.88	<2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			3	<0.01	0.87	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	3	<0.01	1.25	2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			7	<0.01	1.2	2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	4	0.02	0.98	2	<0.2	6	<1	<0.1	3	<1	7	0.7	<1
			4	0.02	0.96	2	<0.2	4	<1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	8	0.02	0.8	2	<0.2	3	<1	<0.1	2	<1	5	0.7	<1
			7	0.03	0.85	2	<0.2	5	<1	<0.1	2	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--
2009/08/01	Mid-ebb	Surface	3	<0.01	1.44	2	<0.2	4	1	<0.1	2	<1	5	1.4	<1
			3	<0.01	1.43	2	<0.2	7	2	<0.1	2	<1	6	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
		Middle	13	0.04	0.63	3	<0.2	3	<1	<0.1	4	<1	<4	2.2	<1
			12	0.03	0.59	3	<0.2	3	<1	<0.1	4	<1	<4	2.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	2.2	--
		Bottom	7	0.02	0.58	2	<0.2	3	<1	<0.1	2	<1	<4	1.2	<1
			7	0.02	0.62	2	<0.2	3	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--

Annex D26 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	<0.01	1.21	3	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			5	<0.01	1.2	2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	6	<0.01	0.81	<2	<0.2	1	<1	<0.1	2	<1	<4	1.2	<1
			4	<0.01	0.81	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	11	0.02	0.64	2	<0.2	1	<1	<0.1	2	<1	<4	1	<1
			10	0.03	0.64	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	7	0.05	0.72	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.05	0.72	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	10	0.05	0.53	<2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			10	0.06	0.55	<2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	9	0.05	0.5	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	1
			10	0.05	0.51	2	0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/06	Mid-ebb	Surface	8	0.1	1.11	2	0.2	2	<1	<0.1	3	<1	<4	2	<1
			10	0.09	1.08	2	<0.2	2	<1	<0.1	3	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	6	1.8	--
		Middle	12	0.08	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	1.8	<1
			14	0.08	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
		Bottom	25	0.09	0.82	2	<0.2	3	1	<0.1	2	<1	<4	1.6	<1
			25	0.09	0.81	3	<0.2	2	<1	<0.1	2	<1	<4	2.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.7	--
	Mid-flood	Surface	10	0.06	1.08	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			11	0.05	1.06	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	9	0.13	0.92	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			8	0.11	0.89	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	9	0.11	0.74	<2	<0.2	2	2	<0.1	2	<1	<4	1.4	<1
			10	0.11	0.74	3	<0.2	2	4	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--

Annex D26 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	4	<0.01	1.14	3	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			4	<0.01	1.15	4	<0.2	2	<1	<0.1	2	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	9	0.05	0.9	3	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.05	0.9	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	15	0.06	0.7	4	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			18	0.06	0.7	3	<0.2	3	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	7	<0.01	1.17	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			8	<0.01	1.21	3	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	14	0.08	0.92	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			10	0.06	0.91	2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	17	0.04	0.78	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			16	0.05	0.8	2	<0.2	3	2	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.14	1.35	<2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			4	0.13	1.32	<2	<0.2	2	<1	<0.1	3	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	14	0.02	0.61	<2	<0.2	2	<1	<0.1	1	<1	4	<0.5	<1
			16	0.02	0.6	<2	<0.2	2	<1	<0.1	1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	17	0.01	0.56	<2	<0.2	1	<1	<0.1	3	<1	<4	0.5	<1
			15	<0.01	0.55	<2	<0.2	1	<1	<0.1	1	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	4	0.17	1.09	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.17	1.09	3	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.06	0.75	<2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.06	0.73	2	<0.2	5	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	8	0.05	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.06	0.72	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	4	0.04	1.16	2	<0.2	1	<1	<0.1	3	<1	<4	1.2	<1
			4	0.04	1.23	2	<0.2	2	<1	<0.1	3	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.06	0.82	2	<0.2	4	<1	<0.1	2	<1	<4	1	<1
			5	0.06	0.88	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	6	0.05	0.71	2	<0.2	1	<1	<0.1	3	<1	<4	0.8	<1
			7	0.05	0.69	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D26 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	6	0.21	1.27	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			6	0.19	1.25	2	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	5	0.13	0.97	2	<0.2	4	<1	<0.1	2	<1	<4	0.8	<1
			5	0.13	0.96	3	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	10	0.08	0.78	2	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			10	0.08	0.76	2	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/16	Mid-ebb	Surface	3	<0.01	1.21	3	<0.2	3	3	<0.1	3	<1	<4	1.4	<1
			3	<0.01	1.21	2	<0.2	2	<1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	6	0.04	0.71	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			8	0.04	0.7	2	<0.2	2	1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	7	0.04	0.56	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			8	0.05	0.57	<2	<0.2	1	<1	<0.1	1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
	Mid-flood	Surface	5	0.01	1.34	2	<0.2	3	<1	<0.1	3	<1	4	1.4	<1
			5	0.02	1.35	2	<0.2	6	2	<0.1	3	<1	10	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	6	0.09	0.94	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			7	0.09	0.94	2	<0.2	2	<1	<0.1	2	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	12	0.05	0.74	3	<0.2	2	<1	<0.1	2	<1	4	0.7	<1
			12	0.05	0.74	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	6	0.07	1.07	2	<0.2	4	<1	<0.1	3	<1	<4	1.6	<1
			6	0.05	1.05	2	<0.2	6	1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	15	0.04	0.6	2	<0.2	2	<1	<0.1	2	<1	4	1.6	<1
			16	0.03	0.57	2	<0.2	4	<1	<0.1	2	<1	16	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	20	0.03	0.5	2	<0.2	2	1	<0.1	2	<1	6	1.4	<1
			20	0.02	0.49	3	<0.2	2	1	<0.1	2	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
	Mid-flood	Surface	8	0.1	1.25	3	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			9	0.1	1.24	2	<0.2	1	<1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	13	0.05	1.02	3	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			14	0.05	1.01	2	<0.2	5	<1	<0.1	2	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	48	0.02	0.69	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	1
			47	0.02	0.67	3	<0.2	2	<1	<0.1	2	<1	<4	0.9	1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--

Annex D26 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	6	0.03	1.11	2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			6	0.03	1.1	2	<0.2	2	<1	<0.1	3	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Middle	15	0.06	0.9	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			16	0.06	0.89	2	<0.2	2	1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
		Bottom	25	0.05	0.71	2	<0.2	2	1	<0.1	2	<1	7	1.2	<1
			26	0.04	0.69	2	<0.2	2	1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
	Mid-flood	Surface	7	0.07	1.17	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			7	0.07	1.18	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Middle	10	0.08	0.88	2	<0.2	4	2	<0.1	3	<1	8	1	<1
			10	0.09	0.89	2	<0.2	2	<1	<0.1	2	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	4	1	--
		Bottom	33	0.07	0.83	3	<0.2	3	2	<0.1	3	<1	11	1	1
			32	0.09	0.86	3	<0.2	3	2	<0.1	3	<1	10	1.3	<1
			--	--	--	--	--	--	--	--	--	--	9	1	--
2009/08/23	Mid-ebb	Surface	7	0.03	1.05	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			8	0.03	1.03	2	<0.2	1	<1	<0.1	3	<1	9	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	12	0.05	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			11	0.05	0.87	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	24	0.03	0.69	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			26	0.04	0.71	2	<0.2	1	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	8	0.02	1.19	2	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			6	0.02	1.19	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	12	0.07	0.95	2	<0.2	3	<1	<0.1	2	<1	<4	0.9	<1
			11	0.06	0.95	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	27	0.11	0.95	2	<0.2	5	<1	<0.1	3	<1	6	1.1	<1
			30	0.13	0.96	2	<0.2	5	1	<0.1	3	<1	6	1.9	1
			--	--	--	--	--	--	--	--	--	--	6	1.8	--

Annex D27 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBA

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.29	2	<0.2	3	<1	<0.1	3	<1	22	<0.5	<1
			4	<0.01	1.28	2	<0.2	3	<1	<0.1	3	<1	42	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	1.1	<1
		Middle	4	0.01	1.1	<2	<0.2	16	<1	<0.1	3	<1	28	<0.5	<1
			3	0.02	1.1	2	<0.2	7	<1	<0.1	2	<1	23	0.7	<1
			--	--	--	--	--	--	--	--	--	--	13	<0.5	<1
		Bottom	7	0.02	1.02	<2	<0.2	<1	<1	<0.1	2	<1	32	<0.5	<1
			8	0.02	0.98	<2	<0.2	<1	<1	<0.1	2	<1	40	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	42	0.8	<1
	Mid-flood	Surface	4	0.02	1.14	<2	<0.2	2	<1	<0.1	3	<1	48	0.5	<1
			4	0.02	1.16	<2	<0.2	2	<1	<0.1	3	<1	43	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	34	0.5	<1
		Middle	5	0.03	1.12	<2	<0.2	1	<1	<0.1	3	<1	19	<0.5	<1
			4	0.03	1.12	2	<0.2	1	<1	<0.1	3	<1	30	0.8	<1
			--	--	--	--	--	--	--	--	--	--	10	0.7	<1
		Bottom	5	0.03	1.03	<2	<0.2	<1	<1	<0.1	3	<1	10	0.6	<1
			3	0.03	1.08	<2	<0.2	1	<1	<0.1	3	<1	41	0.7	<1
			--	--	--	--	--	--	--	--	--	--	33	<0.5	<1
2009/07/30	Mid-ebb	Surface	4	<0.01	1.03	<2	<0.2	7	<1	<0.1	2	<1	6	1	<1
			5	<0.01	1.02	<2	<0.2	6	<1	<0.1	2	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	4	<0.01	0.87	<2	<0.2	3	<1	<0.1	2	<1	4	0.9	<1
			4	<0.01	0.88	<2	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	4	<0.01	0.82	<2	<0.2	<1	<1	<0.1	2	<1	<4	0.8	<1
			4	<0.01	0.81	<2	<0.2	<1	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	8	<0.01	1.11	2	<0.2	7	<1	<0.1	2	<1	6	1.8	<1
			8	<0.01	1.1	2	<0.2	11	<1	<0.1	3	<1	13	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Middle	9	0.01	0.86	2	<0.2	3	<1	<0.1	2	<1	<4	1.1	<1
			9	<0.01	0.86	<2	<0.2	4	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	7	<0.01	0.84	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			6	0.03	0.86	2	<0.2	1	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/01	Mid-ebb	Surface	4	<0.01	1.24	3	<0.2	8	<1	<0.1	3	<1	5	0.9	<1
			3	<0.01	1.24	2	<0.2	7	1	<0.1	3	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	2	0.02	0.69	2	<0.2	4	<1	<0.1	2	<1	10	0.6	<1
			2	0.02	0.69	2	<0.2	5	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	8	0.03	0.61	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			7	0.02	0.61	2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--

Annex D27 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	6	<0.01	1.49	2	<0.2	23	1	<0.1	3	<1	10	0.7	<1
			5	<0.01	1.51	2	<0.2	16	2	<0.1	4	<1	10	0.8	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
		Middle	5	<0.01	0.85	2	<0.2	3	<1	<0.1	2	<1	8	0.6	<1
			6	<0.01	0.89	2	<0.2	3	<1	<0.1	2	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	0.5	--
		Bottom	6	0.01	0.62	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.01	0.64	<2	<0.2	<1	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	3	0.04	0.77	3	<0.2	3	<1	<0.1	2	<1	<4	1.1	<1
			3	0.04	0.77	2	<0.2	7	2	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Middle	5	0.05	0.57	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			4	0.04	0.55	2	<0.2	2	<1	<0.1	2	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.6	--
		Bottom	19	0.05	0.49	2	<0.2	1	<1	<0.1	2	<1	5	0.7	<1
			16	0.05	0.47	3	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
2009/08/06	Mid-ebb	Surface	7	0.08	0.85	2	<0.2	3	<1	<0.1	3	<1	<4	1.7	<1
			6	0.09	0.85	<2	<0.2	3	<1	<0.1	2	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	14	0.09	0.77	2	<0.2	4	<1	<0.1	3	<1	4	0.6	<1
			15	0.08	0.76	3	<0.2	4	<1	<0.1	2	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Bottom	20	0.07	0.68	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			18	0.07	0.69	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	7	0.1	0.76	2	<0.2	5	<1	<0.1	2	<1	7	<0.5	<1
			6	0.09	0.77	2	0.3	9	<1	<0.1	2	<1	24	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	12	0.08	0.69	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			14	0.08	0.71	2	<0.2	3	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	15	0.08	0.66	<2	<0.2	2	<1	<0.1	2	<1	7	<0.5	<1
			14	0.08	0.66	2	<0.2	2	<1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D27 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	<0.01	1	3	<0.2	4	<1	<0.1	2	<1	5	1.3	<1
			5	<0.01	1	3	<0.2	2	<1	<0.1	2	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Middle	6	0.04	0.94	3	<0.2	9	1	<0.1	2	<1	6	1.3	<1
			6	0.04	0.94	3	<0.2	7	<1	<0.1	2	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Bottom	32	0.06	0.73	3	<0.2	8	2	<0.1	2	<1	12	1.1	1
			34	0.06	0.73	3	<0.2	10	2	<0.1	2	<1	15	0.9	1
			--	--	--	--	--	--	--	--	--	--	11	0.9	--
	Mid-flood	Surface	5	0.03	1.29	3	<0.2	3	<1	<0.1	<1	<1	<4	0.6	<1
			6	0.04	1.33	2	<0.2	2	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Middle	6	0.1	1.26	4	<0.2	4	<1	<0.1	<1	<1	<4	<0.5	<1
			7	0.08	1.28	3	<0.2	3	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Bottom	8	0.11	1.22	3	<0.2	7	<1	<0.1	<1	<1	<4	<0.5	<1
			8	0.1	1.18	4	<0.2	6	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.13	1.41	2	<0.2	3	<1	<0.1	2	<1	<4	0.7	<1
			3	0.13	1.42	3	<0.2	4	<1	<0.1	<1	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	5	0.04	0.75	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			6	0.05	0.76	2	<0.2	7	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	7	0.05	0.7	3	<0.2	3	<1	<0.1	1	<1	<4	0.5	<1
			7	0.04	0.66	3	<0.2	2	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
	Mid-flood	Surface	5	0.06	0.97	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			5	0.06	0.96	3	<0.2	3	1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	9	0.05	0.85	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			9	0.05	0.83	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	6	0.04	0.77	2	<0.2	<1	<1	<0.1	2	<1	<4	0.6	<1
			7	0.04	0.76	2	<0.2	1	<1	<0.1	2	<1	14	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	4	0.11	1.22	3	<0.2	4	<1	<0.1	3	<1	<4	1.1	<1
			5	0.11	1.22	2	<0.2	3	<1	<0.1	3	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Middle	6	0.06	0.87	2	<0.2	2	<1	<0.1	2	<1	13	0.8	<1
			5	0.06	0.87	2	<0.2	2	<1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	10	0.8	--
		Bottom	7	0.1	0.81	2	<0.2	16	1	<0.1	2	<1	12	1.9	<1
			7	0.08	0.79	3	<0.2	16	1	<0.1	2	<1	14	1.9	<1
			--	--	--	--	--	--	--	--	--	--	12	1.9	--

Annex D27 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.06	1	<2	<0.2	2	<1	<0.1	2	<1	<4	1.9	<1
			5	0.07	1	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	6	0.07	0.9	2	<0.2	1	<1	<0.1	2	<1	<4	1.9	<1
			7	0.07	0.9	2	<0.2	1	<1	<0.1	2	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	5	0.06	0.87	2	<0.2	<1	<1	<0.1	2	<1	<4	1.8	<1
			4	0.06	0.86	2	<0.2	<1	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
2009/08/16	Mid-ebb	Surface	4	0.01	1.33	3	<0.2	4	1	<0.1	3	<1	10	1.6	<1
			3	<0.01	1.31	2	<0.2	4	1	<0.1	3	<1	7	1.7	<1
			--	--	--	--	--	--	--	--	--	--	7	1.7	--
		Middle	4	0.05	0.9	<2	<0.2	4	1	<0.1	2	<1	7	1.1	<1
			5	0.05	0.94	2	<0.2	3	<1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Bottom	13	0.02	0.56	<2	<0.2	1	<1	<0.1	1	<1	<4	1	<1
			11	0.02	0.62	<2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	4	0.02	1.18	4	<0.2	4	<1	<0.1	3	<1	<4	1.9	<1
			3	0.02	1.22	2	<0.2	3	<1	<0.1	3	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Middle	7	0.04	0.75	2	<0.2	3	<1	<0.1	2	<1	5	1.1	<1
			7	0.04	0.75	<2	<0.2	3	<1	<0.1	1	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Bottom	11	0.06	0.6	2	<0.2	15	2	<0.1	2	<1	4	1.7	<1
			11	0.05	0.63	2	<0.2	16	<1	<0.1	2	<1	13	1.1	<1
			--	--	--	--	--	--	--	--	--	--	10	1	--
2009/08/18	Mid-ebb	Surface	4	0.02	1.06	2	<0.2	4	<1	<0.1	3	<1	6	1.4	<1
			5	0.02	1.07	2	<0.2	4	<1	<0.1	3	<1	5	1.6	<1
			--	--	--	--	--	--	--	--	--	--	6	1.4	--
		Middle	10	0.03	0.67	2	<0.2	4	<1	<0.1	2	<1	<4	1.1	<1
			12	0.02	0.66	2	<0.2	4	<1	<0.1	1	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Bottom	22	0.01	0.56	2	<0.2	2	<1	<0.1	2	<1	6	1.3	<1
			24	0.01	0.55	3	<0.2	1	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1.1	--
	Mid-flood	Surface	7	<0.01	0.92	2	<0.2	3	<1	<0.1	4	<1	9	1.5	<1
			7	<0.01	0.91	2	<0.2	2	<1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	13	0.02	0.76	2	<0.2	2	<1	<0.1	2	<1	5	1.4	<1
			11	0.02	0.75	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	26	0.03	0.58	2	<0.2	2	1	<0.1	2	<1	13	1	<1
			26	0.03	0.55	3	<0.2	2	1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--

Annex D27 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	11	0.05	0.89	<2	<0.2	3	<1	<0.1	3	<1	5	1	<1
			12	0.05	0.88	2	<0.2	<1	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Middle	22	0.04	0.78	2	<0.2	<1	1	<0.1	3	<1	5	0.7	<1
			23	0.04	0.78	2	<0.2	3	1	<0.1	3	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	27	0.03	0.75	2	<0.2	2	1	<0.1	3	<1	5	<0.5	<1
			28	0.03	0.76	2	<0.2	<1	1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	11	0.06	0.97	3	<0.2	3	<1	<0.1	3	<1	6	1.1	<1
			10	0.06	0.98	2	<0.2	3	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	20	0.06	0.87	2	<0.2	3	1	<0.1	3	<1	6	1.1	<1
			22	0.07	0.87	2	<0.2	3	1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	33	0.06	0.75	3	<0.2	2	1	<0.1	2	<1	4	0.8	1
			34	0.05	0.73	2	<0.2	2	1	<0.1	2	<1	<4	0.5	1
			--	--	--	--	--	--	--	--	--	--	5	1	--
2009/08/23	Mid-ebb	Surface	15	0.03	0.72	2	<0.2	4	<1	<0.1	2	<1	4	<0.5	<1
			14	0.03	0.69	2	<0.2	4	1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.5	--
		Middle	6	0.02	0.82	2	<0.2	5	<1	<0.1	2	<1	5	0.8	<1
			6	0.02	0.83	2	<0.2	4	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Bottom	67	0.08	0.66	2	<0.2	10	2	<0.1	3	<1	15	1.8	1
			60	0.09	0.69	2	<0.2	11	2	<0.1	2	<1	16	1.6	1
			--	--	--	--	--	--	--	--	--	--	12	1.8	--
	Mid-flood	Surface	12	0.05	0.93	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			10	0.05	0.94	2	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	21	0.05	0.91	2	<0.2	1	<1	<0.1	2	<1	4	0.9	<1
			20	0.05	0.89	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	42	0.05	0.78	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			32	0.05	0.81	2	<0.2	1	<1	<0.1	2	<1	5	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D28 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBB

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.29	2	<0.2	16	<1	<0.1	3	<1	13	0.6	<1
			4	<0.01	1.29	2	<0.2	20	1	<0.1	3	<1	8	0.9	<1
			--	--	--	--	--	--	--	--	--	--	19	0.8	<1
		Middle	7	0.05	1.04	<2	<0.2	17	1	<0.1	4	<1	16	1.4	<1
			8	0.05	1.03	<2	<0.2	11	<1	<0.1	3	<1	19	1.5	<1
			--	--	--	--	--	--	--	--	--	--	15	1.9	<1
		Bottom	7	0.07	0.72	2	<0.2	1	<1	<0.1	3	<1	6	<0.5	<1
			7	0.07	0.73	2	<0.2	1	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.9	<1
	Mid-flood	Surface	6	0.02	1.1	2	<0.2	1	<1	<0.1	3	<1	28	<0.5	--
			5	0.02	1.11	2	<0.2	1	<1	<0.1	3	<1	32	0.6	--
			--	--	--	--	--	--	--	--	--	--	35	1.3	--
		Middle	12	0.04	0.92	2	<0.2	2	<1	<0.1	3	<1	22	<0.5	--
			12	0.04	0.91	2	<0.2	1	<1	<0.1	3	<1	7	<0.5	--
			--	--	--	--	--	--	--	--	--	--	31	<0.5	--
		Bottom	11	0.06	0.78	<2	<0.2	2	<1	<0.1	2	<1	13	<0.5	--
			12	0.05	0.77	<2	<0.2	2	<1	<0.1	2	<1	11	<0.5	--
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
2009/07/30	Mid-ebb	Surface	4	<0.01	1.01	<2	<0.2	14	<1	<0.1	2	<1	7	1.3	<1
			2	<0.01	1	<2	<0.2	17	<1	<0.1	2	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	11	1.2	--
		Middle	6	0.06	0.7	<2	<0.2	10	1	<0.1	2	<1	11	1.2	<1
			6	0.06	0.69	<2	<0.2	10	<1	<0.1	2	<1	10	1.5	<1
			--	--	--	--	--	--	--	--	--	--	9	1.3	--
		Bottom	10	0.09	0.58	<2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			10	0.08	0.58	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	3	0.06	1.06	<2	<0.2	33	2	<0.1	2	<1	14	1.2	<1
			3	0.06	1.06	<2	<0.2	34	2	<0.1	2	<1	12	1.4	<1
			--	--	--	--	--	--	--	--	--	--	12	1.7	--
		Middle	10	0.13	0.72	<2	<0.2	9	1	<0.1	2	<1	7	0.8	<1
			11	0.01	0.59	<2	<0.2	20	1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1.3	--
		Bottom	22	<0.01	0.48	2	<0.2	2	1	<0.1	1	<1	19	0.6	<1
			21	<0.01	0.48	2	<0.2	2	1	<0.1	1	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
2009/08/01	Mid-ebb	Surface	3	0.02	1.29	3	<0.2	4	<1	<0.1	3	<1	6	0.7	<1
			4	<0.01	1.25	2	<0.2	3	<1	<0.1	3	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.7	--
		Middle	14	0.05	0.63	2	<0.2	5	1	<0.1	2	<1	7	<0.5	<1
			11	0.07	0.62	2	<0.2	4	<1	<0.1	2	<1	7	0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	38	0.1	0.55	3	<0.2	2	2	<0.1	2	<1	6	0.6	<1
			34	0.09	0.54	3	<0.2	2	2	<0.1	2	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--

Annex D28 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	0.01	1.25	2	<0.2	6	2	<0.1	3	<1	7	0.8	<1
			5	0.02	1.33	2	<0.2	6	3	<0.1	3	<1	9	0.9	<1
			--	--	--	--	--	--	--	--	--	--	15	0.6	--
		Middle	12	0.05	0.56	2	<0.2	4	2	<0.1	2	<1	9	0.5	<1
			14	0.06	0.57	<2	<0.2	4	2	<0.1	2	<1	14	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	16	0.14	0.57	2	<0.2	1	<1	<0.1	1	<1	6	0.6	<1
			12	0.13	0.56	2	<0.2	1	<1	<0.1	1	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
2009/08/04	Mid-ebb	Surface	3	0.03	0.63	2	<0.2	4	<1	<0.1	2	<1	12	0.9	<1
			5	0.02	0.6	2	<0.2	4	<1	<0.1	2	<1	11	0.7	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Middle	25	0.04	0.42	2	<0.2	2	1	<0.1	2	<1	11	0.6	<1
			23	0.04	0.41	2	<0.2	2	1	<0.1	2	<1	10	0.8	<1
			--	--	--	--	--	--	--	--	--	--	9	0.7	--
		Bottom	23	0.06	0.4	3	<0.2	2	1	<0.1	2	<1	6	0.5	<1
			24	0.05	0.4	2	<0.2	1	<1	<0.1	2	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
	Mid-flood	Surface	5	0.04	0.77	2	<0.2	6	1	<0.1	2	<1	4	0.7	<1
			7	0.04	0.75	2	<0.2	6	1	<0.1	2	<1	7	1.3	<1
			--	--	--	--	--	--	--	--	--	--	11	0.9	--
		Middle	17	0.06	0.42	3	<0.2	2	<1	<0.1	1	<1	<4	0.8	<1
			14	0.07	0.42	3	<0.2	2	<1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	11	0.07	0.42	3	<0.2	<1	<1	<0.1	1	<1	<4	0.5	<1
			12	0.06	0.41	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/06	Mid-ebb	Surface	7	0.08	0.85	2	<0.2	5	<1	<0.1	2	<1	6	1.9	<1
			9	0.08	0.89	2	<0.2	2	<1	<0.1	2	<1	<4	1.9	<1
			--	--	--	--	--	--	--	--	--	--	10	1.8	--
		Middle	31	0.09	0.75	2	<0.2	3	2	<0.1	2	<1	7	0.8	<1
			30	0.09	0.79	2	<0.2	3	2	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
		Bottom	39	0.07	0.62	2	<0.2	3	2	<0.1	2	<1	6	0.7	<1
			45	0.07	0.6	2	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	7	0.09	0.87	<2	<0.2	2	<1	<0.1	2	<1	4	1.2	<1
			6	0.09	0.82	2	<0.2	3	1	<0.1	2	<1	7	1.1	<1
			--	--	--	--	--	--	--	--	--	--	11	1.3	--
		Middle	20	0.08	0.65	2	<0.2	3	<1	<0.1	2	<1	9	0.8	<1
			17	0.08	0.63	2	<0.2	3	<1	<0.1	2	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	6	1.4	--
		Bottom	20	0.08	0.59	2	<0.2	2	<1	<0.1	2	<1	5	0.7	1
			24	0.08	0.58	2	<0.2	2	<1	<0.1	2	<1	9	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--

Annex D28 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.04	2	<0.2	3	<1	<0.1	2	<1	4	0.8	<1
			5	0.01	1.01	2	<0.2	3	<1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Middle	59	0.05	0.69	3	<0.2	16	3	<0.1	2	<1	15	1.1	2
			57	0.05	0.68	2	<0.2	13	3	<0.1	2	<1	15	1.1	2
			--	--	--	--	--	--	--	--	--	--	15	1.1	--
		Bottom	84	0.07	0.61	3	<0.2	24	10	<0.1	3	<1	27	0.6	3
			83	0.07	0.61	3	<0.2	23	5	<0.1	3	<1	24	0.8	2
			--	--	--	--	--	--	--	--	--	--	26	0.6	--
	Mid-flood	Surface	6	0.06	0.95	4	<0.2	7	<1	<0.1	2	<1	6	<0.5	<1
			7	0.07	0.95	4	<0.2	8	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
		Middle	16	0.11	0.73	4	<0.2	11	2	<0.1	2	<1	13	<0.5	<1
			17	0.13	0.78	4	<0.2	13	2	<0.1	2	<1	17	0.9	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
		Bottom	23	0.12	0.68	3	<0.2	24	3	<0.1	2	<1	21	<0.5	<1
			20	0.13	0.69	3	<0.2	23	4	<0.1	2	<1	20	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	20	<0.5	--
2009/08/12	Mid-ebb	Surface	6	0.1	1.4	3	<0.2	3	<1	<0.1	3	<1	5	0.9	<1
			5	0.1	1.41	2	<0.2	3	<1	<0.1	3	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.7	--
		Middle	14	0.04	0.64	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			16	0.05	0.65	3	<0.2	6	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	28	0.05	0.58	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			27	0.05	0.6	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	4	0.04	0.87	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			4	0.03	0.87	2	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
		Middle	14	0.04	0.63	2	<0.2	2	<1	<0.1	2	<1	5	0.7	<1
			16	0.04	0.63	2	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	21	0.04	0.55	3	<0.2	1	<1	<0.1	1	<1	4	<0.5	<1
			22	0.04	0.58	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/14	Mid-ebb	Surface	6	0.15	1.29	2	<0.2	4	<1	<0.1	3	<1	7	1.8	<1
			5	0.15	1.29	2	<0.2	4	<1	<0.1	3	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.9	--
		Middle	13	0.06	0.61	2	<0.2	4	<1	<0.1	2	<1	5	1.6	<1
			15	0.07	0.62	2	<0.2	3	<1	<0.1	2	<1	5	1.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1.8	--
		Bottom	23	0.08	0.57	2	<0.2	29	2	<0.1	2	<1	21	1.7	<1
			23	0.08	0.57	3	<0.2	13	1	<0.1	2	<1	11	1.8	<1
			--	--	--	--	--	--	--	--	--	--	19	1.7	--

Annex D28 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.06	0.97	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			5	0.06	0.97	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	20	0.06	0.66	2	<0.2	2	<1	<0.1	2	<1	4	0.9	<1
			20	0.06	0.65	2	<0.2	1	<1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	18	0.06	0.55	2	<0.2	1	<1	<0.1	1	<1	<4	0.6	<1
			18	0.06	0.55	2	<0.2	1	<1	<0.1	1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
2009/08/16	Mid-ebb	Surface	5	0.02	1.33	3	<0.2	5	1	<0.1	4	<1	11	1.4	<1
			6	0.02	1.34	<2	<0.2	5	<1	<0.1	3	<1	8	1.8	<1
			--	--	--	--	--	--	--	--	--	--	12	1.3	--
		Middle	20	0.04	0.58	3	<0.2	12	2	<0.1	2	<1	16	1.2	<1
			23	0.05	0.59	2	<0.2	10	2	<0.1	2	<1	13	1.3	<1
			--	--	--	--	--	--	--	--	--	--	16	0.9	--
		Bottom	27	0.09	0.52	3	<0.2	12	3	<0.1	2	<1	11	1	<1
			26	0.09	0.52	2	<0.2	16	2	<0.1	2	<1	20	1.5	<1
			--	--	--	--	--	--	--	--	--	--	13	1.5	--
	Mid-flood	Surface	5	0.02	1.51	<2	<0.2	3	<1	<0.1	2	<1	<4	1.7	<1
			5	0.01	1.32	3	<0.2	3	<1	<0.1	3	<1	4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	18	0.05	0.59	<2	<0.2	2	<1	<0.1	1	<1	<4	0.9	<1
			17	0.05	0.58	<2	<0.2	3	<1	<0.1	<1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	26	0.08	0.57	2	<0.2	2	<1	<0.1	<1	<1	<4	1.5	<1
			28	0.08	0.56	<2	<0.2	6	<1	<0.1	1	<1	4	2	<1
			--	--	--	--	--	--	--	--	--	--	<4	2	--
2009/08/18	Mid-ebb	Surface	9	0.03	0.85	2	<0.2	4	<1	<0.1	2	<1	8	1.7	<1
			9	0.03	0.83	2	<0.2	4	<1	<0.1	3	<1	6	2	<1
			--	--	--	--	--	--	--	--	--	--	7	2	--
		Middle	27	0.03	0.57	2	<0.2	10	1	<0.1	4	<1	8	1.8	<1
			27	0.03	0.57	2	<0.2	8	1	<0.1	2	<1	10	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
		Bottom	41	0.03	0.53	3	<0.2	15	3	<0.1	3	<1	17	2	1
			45	0.03	0.53	3	<0.2	10	2	<0.1	6	<1	9	2.1	1
			--	--	--	--	--	--	--	--	--	--	16	2.1	--
	Mid-flood	Surface	9	0.03	0.99	2	<0.2	3	<1	<0.1	3	<1	4	1.4	<1
			10	0.03	0.98	2	<0.2	3	<1	<0.1	3	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	6	1.5	--
		Middle	16	0.06	0.65	3	<0.2	4	2	<0.1	2	<1	4	1.3	<1
			21	0.06	0.63	2	<0.2	4	2	<0.1	3	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Bottom	73	0.11	0.58	3	<0.2	20	4	<0.1	10	<1	13	2.2	3
			74	0.12	0.59	3	<0.2	16	4	<0.1	4	<1	11	2.3	3
			--	--	--	--	--	--	--	--	--	--	5	1.9	--

Annex D28 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	10	0.05	1	2	<0.2	3	<1	<0.1	3	<1	5	0.9	<1
			9	0.04	0.99	2	<0.2	<1	<1	<0.1	3	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--
		Middle	56	0.03	0.73	2	<0.2	<1	3	<0.1	3	<1	14	0.5	1
			56	0.04	0.72	3	<0.2	2	4	<0.1	3	<1	11	0.6	1
			--	--	--	--	--	--	--	--	--	--	11	0.8	--
		Bottom	66	0.03	0.66	3	<0.2	8	3	<0.1	3	<1	8	<0.5	1
			62	0.03	0.67	3	<0.2	<1	3	<0.1	3	<1	8	0.5	1
			--	--	--	--	--	--	--	--	--	--	8	0.7	--
	Mid-flood	Surface	10	0.05	0.95	3	<0.2	3	<1	<0.1	2	<1	<4	1.2	<1
			11	0.06	0.96	3	<0.2	6	<1	<0.1	3	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	68	0.07	0.81	3	<0.2	12	4	<0.1	4	<1	17	1.3	2
			71	0.06	0.79	3	<0.2	10	3	<0.1	4	<1	13	1	2
			--	--	--	--	--	--	--	--	--	--	17	1.3	--
		Bottom	63	0.05	0.72	3	<0.2	3	2	<0.1	3	<1	7	0.6	1
			72	0.07	0.74	3	<0.2	4	3	<0.1	3	<1	9	0.9	1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/23	Mid-ebb	Surface	9	0.03	0.81	2	<0.2	5	1	<0.1	6	<1	13	1.1	<1
			10	0.02	0.8	2	<0.2	5	<1	<0.1	2	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	74	0.03	0.62	3	<0.2	5	4	<0.1	3	<1	10	0.8	2
			75	0.03	0.62	3	<0.2	6	4	<0.1	3	<1	11	<0.5	2
			--	--	--	--	--	--	--	--	--	--	11	0.6	--
		Bottom	179	0.05	0.61	4	<0.2	14	8	<0.1	4	<1	19	1.8	4
			174	0.06	0.62	4	<0.2	14	8	<0.1	4	<1	21	1.8	3
			--	--	--	--	--	--	--	--	--	--	18	1.4	--
	Mid-flood	Surface	9	0.05	0.95	2	<0.2	4	<1	<0.1	3	<1	5	0.8	<1
			9	0.05	0.95	2	<0.2	3	<1	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	34	0.06	0.86	3	<0.2	3	2	<0.1	3	<1	8	<0.5	<1
			36	0.05	0.83	3	<0.2	3	2	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Bottom	63	0.05	0.7	3	<0.2	3	2	<0.1	6	<1	8	<0.5	2
			81	0.06	0.7	3	<0.2	3	2	<0.1	3	<1	9	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--

Annex D29 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBC

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	3	<0.01	1.27	2	<0.2	23	<1	<0.1	3	<1	34	0.6	<1
			4	<0.01	1.28	2	<0.2	23	1	<0.1	3	<1	24	0.6	<1
			--	--	--	--	--	--	--	--	--	--	25	0.8	<1
		Middle	3	0.02	1.05	<2	<0.2	4	<1	<0.1	3	<1	6	0.7	<1
			4	0.03	1.07	<2	<0.2	4	<1	<0.1	3	<1	8	1.1	<1
			--	--	--	--	--	--	--	--	--	--	25	0.6	<1
		Bottom	10	0.05	0.82	<2	<0.2	1	<1	<0.1	3	<1	8	<0.5	<1
			7	0.04	0.82	<2	<0.2	1	<1	<0.1	3	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	<1
	Mid-flood	Surface	3	0.02	1.16	<2	<0.2	1	<1	<0.1	3	<1	22	1.1	<1
			3	0.02	1.15	2	<0.2	1	<1	<0.1	3	<1	24	0.7	<1
			--	--	--	--	--	--	--	--	--	--	24	0.7	<1
		Middle	13	0.05	0.91	2	<0.2	2	<1	<0.1	3	<1	19	<0.5	<1
			10	0.04	0.93	2	<0.2	1	<1	<0.1	3	<1	13	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	<1
		Bottom	18	0.05	0.81	<2	<0.2	1	<1	<0.1	2	<1	12	<0.5	<1
			16	0.05	0.83	<2	<0.2	2	<1	<0.1	3	<1	18	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	<1
2009/07/30	Mid-ebb	Surface	2	<0.01	1.01	<2	<0.2	2	<1	<0.1	2	<1	5	1.2	<1
			<2	<0.01	1.01	2	<0.2	<1	<1	<0.1	<1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	16	1.4	--
		Middle	3	<0.01	0.86	<2	<0.2	8	<1	<0.1	2	<1	9	0.7	<1
			4	0.01	0.86	<2	<0.2	14	<1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	9	0.04	0.7	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.04	0.68	<2	<0.2	<1	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	5	0.02	1.07	<2	<0.2	18	1	<0.1	2	<1	13	1.4	<1
			5	0.03	1.08	2	<0.2	25	3	<0.1	2	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	10	1.2	--
		Middle	6	0.03	0.85	<2	<0.2	4	<1	<0.1	2	<1	4	1.1	<1
			5	0.03	0.83	2	<0.2	6	<1	<0.1	2	<1	4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	9	<0.01	0.67	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			7	<0.01	0.69	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/01	Mid-ebb	Surface	4	0.04	1.38	2	<0.2	6	<1	<0.1	3	<1	12	<0.5	<1
			5	0.03	1.35	2	<0.2	5	<1	<0.1	3	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Middle	4	0.02	0.88	2	<0.2	3	<1	<0.1	2	<1	6	<0.5	<1
			3	0.03	0.94	2	<0.2	4	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
		Bottom	13	0.02	0.57	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			12	0.02	0.59	2	<0.2	1	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D29 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	6	0.02	1.33	2	<0.2	3	<1	<0.1	3	<1	5	0.7	<1
			6	0.02	1.34	3	<0.2	15	3	<0.1	4	<1	14	0.7	<1
			--	--	--	--	--	--	--	--	--	--	12	0.6	--
		Middle	6	0.01	0.64	<2	<0.2	6	2	<0.1	2	<1	10	0.5	<1
			7	0.02	0.68	2	<0.2	7	3	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
		Bottom	14	0.05	0.57	<2	<0.2	1	<1	<0.1	1	<1	5	0.6	<1
			15	0.05	0.6	2	<0.2	1	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/04	Mid-ebb	Surface	6	0.03	0.64	2	<0.2	5	<1	<0.1	2	<1	19	0.7	<1
			4	0.02	0.54	3	<0.2	4	<1	<0.1	2	<1	10	1.1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Middle	7	0.02	0.61	2	<0.2	4	<1	<0.1	2	<1	10	0.7	<1
			5	0.02	0.6	2	<0.2	4	<1	<0.1	2	<1	18	1	<1
			--	--	--	--	--	--	--	--	--	--	10	1.4	--
		Bottom	34	0.03	0.38	2	<0.2	2	1	<0.1	2	<1	8	1.2	<1
			29	0.02	0.38	3	<0.2	2	1	<0.1	2	<1	9	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	11	0.8	--
	Mid-flood	Surface	8	0.04	0.76	3	<0.2	6	<1	<0.1	2	<1	6	0.8	<1
			10	0.05	0.81	3	<0.2	6	<1	<0.1	2	<1	9	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	1.1	--
		Middle	13	0.05	0.51	3	<0.2	3	<1	<0.1	<1	<1	<4	1.1	<1
			12	0.05	0.5	3	<0.2	5	1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Bottom	18	0.07	0.41	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			15	0.06	0.42	3	<0.2	1	<1	<0.1	1	<1	10	0.9	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
2009/08/06	Mid-ebb	Surface	7	0.09	0.93	2	<0.2	10	1	<0.1	2	<1	12	1.4	<1
			6	0.08	0.91	2	<0.2	9	<1	<0.1	2	<1	14	1.9	<1
			--	--	--	--	--	--	--	--	--	--	13	1.8	--
		Middle	8	0.07	0.87	2	<0.2	3	<1	<0.1	2	<1	8	1.4	<1
			7	0.08	0.87	2	<0.2	3	<1	<0.1	2	<1	8	1.6	<1
			--	--	--	--	--	--	--	--	--	--	10	1.2	--
		Bottom	22	0.08	0.73	2	<0.2	2	1	<0.1	2	<1	7	<0.5	<1
			26	0.08	0.73	3	<0.2	3	2	<0.1	3	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	10	0.09	0.69	2	<0.2	5	<1	<0.1	2	<1	6	1.8	<1
			9	0.08	0.7	2	<0.2	6	<1	<0.1	2	<1	8	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Middle	16	0.07	0.6	2	<0.2	2	<1	<0.1	2	<1	9	0.8	<1
			18	0.08	0.57	2	<0.2	2	<1	<0.1	2	<1	14	1.4	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	17	0.08	0.59	2	<0.2	2	<1	<0.1	2	<1	4	1	<1
			17	0.08	0.59	2	<0.2	2	<1	<0.1	2	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--

Annex D29 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.02	3	<0.2	2	<1	<0.1	2	<1	5	1	<1
			7	<0.01	1.03	3	<0.2	13	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Middle	7	0.04	0.94	3	<0.2	4	<1	<0.1	2	<1	14	1	<1
			5	0.04	0.95	3	<0.2	8	2	<0.1	2	<1	13	1.3	<1
			--	--	--	--	--	--	--	--	--	--	14	1	--
		Bottom	34	0.03	0.51	3	<0.2	6	2	<0.1	2	<1	9	<0.5	1
			31	0.04	0.54	4	<0.2	7	2	<0.1	2	<1	10	0.8	1
			--	--	--	--	--	--	--	--	--	--	24	<0.5	--
	Mid-flood	Surface	7	0.05	0.97	3	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.06	0.98	4	<0.2	4	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	20	0.09	0.76	3	<0.2	11	2	<0.1	2	<1	12	<0.5	1
			22	0.1	0.75	2	<0.2	7	2	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
		Bottom	20	0.11	0.72	3	<0.2	18	3	<0.1	2	<1	15	<0.5	1
			21	0.1	0.7	4	<0.2	17	2	<0.1	2	<1	15	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.1	1.31	3	<0.2	5	<1	<0.1	3	<1	6	0.8	<1
			5	0.1	1.33	3	<0.2	7	<1	<0.1	3	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	9	0.8	--
		Middle	7	0.09	0.98	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			8	0.09	0.98	2	<0.2	2	<1	<0.1	2	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	11	0.05	0.67	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			13	0.05	0.7	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.04	0.87	2	<0.2	4	<1	<0.1	2	<1	4	0.5	<1
			5	0.04	0.86	2	<0.2	4	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Middle	18	0.04	0.63	2	<0.2	2	<1	<0.1	2	<1	4	0.6	<1
			17	0.04	0.63	2	<0.2	2	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	18	0.03	0.55	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			18	0.04	0.57	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	6	0.15	1.29	2	<0.2	4	<1	<0.1	4	<1	6	1.7	<1
			6	0.14	1.28	2	<0.2	4	<1	<0.1	3	<1	7	1.9	<1
			--	--	--	--	--	--	--	--	--	--	5	1.8	--
		Middle	8	0.06	0.77	2	<0.2	4	<1	<0.1	2	<1	4	1.7	<1
			9	0.06	0.77	2	<0.2	3	<1	<0.1	2	<1	4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	16	0.1	0.66	3	<0.2	28	3	<0.1	2	<1	17	1.7	<1
			14	0.08	0.64	<2	<0.2	24	2	<0.1	2	<1	13	1.8	<1
			--	--	--	--	--	--	--	--	--	--	17	1.9	--

Annex D29 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	6	0.06	1.06	2	<0.2	7	<1	<0.1	3	<1	<4	1.1	<1
			7	0.06	1.05	2	<0.2	3	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Middle	10	0.07	0.77	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			9	0.09	0.79	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Bottom	14	0.05	0.57	2	<0.2	3	<1	<0.1	1	<1	<4	0.8	<1
			16	0.05	0.57	2	<0.2	<1	<1	<0.1	1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
2009/08/16	Mid-ebb	Surface	5	<0.01	1.4	2	<0.2	9	1	<0.1	5	<1	9	1.6	<1
			5	0.01	1.4	2	<0.2	6	1	<0.1	2	<1	8	1.7	<1
			--	--	--	--	--	--	--	--	--	--	10	1.6	--
		Middle	8	0.07	0.84	<2	<0.2	6	1	<0.1	4	<1	7	1.9	<1
			8	0.08	0.86	3	<0.2	7	1	<0.1	2	<1	10	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	1.2	--
		Bottom	29	0.02	0.49	3	<0.2	10	3	<0.1	2	<1	12	0.8	<1
			35	0.03	0.52	2	<0.2	8	2	<0.1	2	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
	Mid-flood	Surface	6	<0.01	1.14	2	<0.2	2	<1	<0.1	3	<1	5	1.6	<1
			7	<0.01	1.14	2	<0.2	4	1	<0.1	2	<1	9	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	9	0.03	0.68	3	<0.2	3	1	<0.1	2	<1	8	1.3	<1
			8	0.05	0.71	<2	<0.2	4	<1	<0.1	2	<1	8	1.7	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Bottom	16	0.07	0.6	3	<0.2	15	1	<0.1	2	<1	19	1.1	<1
			19	0.07	0.61	2	<0.2	15	2	<0.1	2	<1	28	0.9	<1
			--	--	--	--	--	--	--	--	--	--	17	1.2	--
2009/08/18	Mid-ebb	Surface	4	0.03	0.89	2	<0.2	5	<1	<0.1	3	<1	5	1.6	<1
			4	0.03	0.89	2	<0.2	4	<1	<0.1	3	<1	10	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	23	0.04	0.61	2	<0.2	2	1	<0.1	2	<1	6	1.6	<1
			23	0.04	0.61	2	<0.2	5	3	<0.1	5	<1	11	1.9	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Bottom	27	0.03	0.59	3	<0.2	10	3	<0.1	6	<1	9	2.1	<1
			29	0.03	0.58	2	<0.2	9	2	<0.1	3	<1	11	1.8	<1
			--	--	--	--	--	--	--	--	--	--	10	2	--
	Mid-flood	Surface	10	0.06	1.11	2	<0.2	3	<1	<0.1	3	<1	5	1.7	<1
			11	0.05	1.1	2	<0.2	18	6	<0.1	4	<1	8	1.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	27	0.04	0.68	2	<0.2	4	2	<0.1	4	<1	6	1.8	<1
			29	0.05	0.68	2	<0.2	6	1	<0.1	2	<1	6	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
		Bottom	27	0.08	0.65	2	<0.2	9	2	<0.1	2	<1	12	1.9	<1
			28	0.09	0.68	3	<0.2	19	2	<0.1	4	<1	17	1.7	<1
			--	--	--	--	--	--	--	--	--	--	11	1.5	--

Annex D29 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	9	0.03	1.07	2	<0.2	<1	<1	<0.1	3	<1	5	1.3	<1
			8	0.04	1.08	2	<0.2	5	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	12	0.05	0.91	2	<0.2	9	1	<0.1	3	<1	6	0.7	<1
			12	0.04	0.9	2	<0.2	<1	1	<0.1	2	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	6	1	--
		Bottom	59	0.02	0.68	3	<0.2	<1	2	<0.1	2	<1	<4	<0.5	1
			62	0.02	0.67	2	<0.2	2	1	<0.1	2	<1	6	0.6	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
	Mid-flood	Surface	10	0.05	0.9	<2	<0.2	9	<1	<0.1	3	<1	6	0.8	<1
			10	0.05	0.9	<2	<0.2	4	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Middle	33	0.07	0.79	2	<0.2	8	2	<0.1	3	<1	11	0.8	1
			33	0.07	0.79	2	<0.2	8	3	<0.1	4	<1	13	0.7	1
			--	--	--	--	--	--	--	--	--	--	10	0.6	--
		Bottom	104	0.08	0.73	3	<0.2	9	4	<0.1	4	<1	25	0.6	2
			89	0.08	0.74	3	<0.2	8	4	<0.1	4	<1	19	0.8	2
			--	--	--	--	--	--	--	--	--	--	14	0.6	--
2009/08/23	Mid-ebb	Surface	8	0.02	0.86	2	<0.2	6	<1	<0.1	3	<1	4	1.2	<1
			7	0.03	0.86	2	<0.2	4	<1	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	11	0.03	0.83	2	<0.2	4	<1	<0.1	3	<1	5	1	<1
			10	0.03	0.83	2	<0.2	4	1	<0.1	3	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
		Bottom	60	0.03	0.62	3	<0.2	17	4	<0.1	3	<1	14	0.8	2
			62	0.04	0.64	3	<0.2	14	4	<0.1	3	<1	14	1.5	2
			--	--	--	--	--	--	--	--	--	--	19	1.6	--
	Mid-flood	Surface	11	0.05	0.95	3	<0.2	9	1	<0.1	3	<1	10	0.8	<1
			10	0.05	0.96	2	<0.2	5	<1	<0.1	3	<1	7	0.8	<1
			--	--	--	--	--	--	--	--	--	--	8	0.8	--
		Middle	43	0.05	0.86	3	<0.2	4	2	<0.1	3	<1	8	0.9	<1
			40	0.05	0.85	3	<0.2	3	2	<0.1	3	<1	8	0.9	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
		Bottom	78	0.06	0.75	3	<0.2	4	3	<0.1	3	<1	11	<0.5	1
			68	0.05	0.78	3	<0.2	4	3	<0.1	3	<1	9	<0.5	1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--

Annex D30 - Baseline Water Quality Monitoring Results

Sampling Station : ESC-WNBD

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	5	<0.01	1.31	2	<0.2	7	1	<0.1	3	<1	33	1	--
			3	<0.01	1.32	<2	<0.2	6	2	<0.1	3	<1	25	1	--
			--	--	--	--	--	--	--	--	--	--	29	0.9	--
		Middle	3	0.02	1.03	<2	<0.2	6	<1	<0.1	3	<1	28	0.8	--
			3	0.02	1.05	2	<0.2	5	<1	<0.1	3	<1	20	0.8	--
			--	--	--	--	--	--	--	--	--	--	17	0.8	--
		Bottom	7	0.06	0.92	<2	<0.2	<1	<1	<0.1	2	<1	13	1.1	--
			8	0.05	0.92	<2	<0.2	<1	<1	<0.1	2	<1	30	0.9	--
			--	--	--	--	--	--	--	--	--	--	18	1.6	--
	Mid-flood	Surface	4	<0.01	1.14	2	<0.2	1	<1	<0.1	3	<1	12	<0.5	<1
			3	<0.01	1.16	2	<0.2	1	<1	<0.1	3	<1	21	0.9	<1
			--	--	--	--	--	--	--	--	--	--	22	1.6	<1
		Middle	8	0.04	0.92	<2	<0.2	1	<1	<0.1	3	<1	13	<0.5	<1
			8	0.04	0.91	2	<0.2	1	<1	<0.1	3	<1	28	0.6	<1
			--	--	--	--	--	--	--	--	--	--	20	<0.5	<1
		Bottom	13	0.05	0.81	<2	<0.2	2	<1	<0.1	2	<1	23	<0.5	<1
			12	0.05	0.8	<2	<0.2	1	<1	<0.1	2	<1	22	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	<1
2009/07/30	Mid-ebb	Surface	8	<0.01	1.02	2	<0.2	7	1	<0.1	3	<1	7	1.8	<1
			7	<0.01	1.02	<2	<0.2	8	1	<0.1	3	<1	8	1.5	<1
			--	--	--	--	--	--	--	--	--	--	10	2.4	--
		Middle	8	<0.01	0.94	2	<0.2	6	<1	<0.1	2	<1	6	1.2	<1
			8	<0.01	0.92	2	<0.2	6	<1	<0.1	2	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Bottom	8	0.03	0.7	<2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.03	0.69	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	<0.01	1.07	<2	<0.2	15	1	<0.1	3	<1	8	1.8	<1
			6	0.02	1.1	<2	<0.2	14	1	<0.1	2	<1	8	1.4	<1
			--	--	--	--	--	--	--	--	--	--	6	1.4	--
		Middle	7	<0.01	0.92	<2	<0.2	5	<1	<0.1	2	<1	4	1.3	<1
			5	0.01	0.93	<2	<0.2	7	<1	<0.1	2	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	8	0.04	0.71	2	1	<1	<1	<0.1	1	<1	4	0.7	<1
			7	0.05	0.71	<2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/01	Mid-ebb	Surface	4	0.03	1.3	2	<0.2	5	<1	<0.1	3	<1	6	0.6	<1
			4	0.03	1.29	3	<0.2	6	<1	<0.1	3	<1	6	0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	0.8	--
		Middle	3	0.01	1.09	<2	<0.2	6	<1	<0.1	2	<1	7	0.6	<1
			3	0.01	1.05	2	<0.2	6	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	0.5	--
		Bottom	6	0.02	0.66	<2	<0.2	1	<1	<0.1	2	<1	<4	0.6	<1
			7	0.02	0.66	<2	<0.2	1	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D30 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	7	0.05	1.53	2	<0.2	7	4	<0.1	4	<1	16	0.8	<1
			6	0.04	1.48	2	<0.2	8	5	<0.1	4	<1	17	1	<1
			--	--	--	--	--	--	--	--	--	--	22	0.7	--
		Middle	8	0.02	0.77	2	<0.2	3	3	<0.1	2	<1	15	0.6	<1
			8	0.02	0.75	2	<0.2	4	5	<0.1	2	<1	17	0.8	<1
			--	--	--	--	--	--	--	--	--	--	14	0.5	--
		Bottom	13	0.04	0.6	2	<0.2	1	<1	<0.1	2	<1	21	0.6	<1
			14	0.04	0.61	<2	<0.2	1	<1	<0.1	2	<1	15	0.6	<1
			--	--	--	--	--	--	--	--	--	--	17	0.5	--
2009/08/04	Mid-ebb	Surface	5	0.02	0.63	2	<0.2	5	1	<0.1	2	<1	6	1.6	<1
			3	0.02	0.62	2	<0.2	7	<1	<0.1	2	<1	17	1.5	<1
			--	--	--	--	--	--	--	--	--	--	7	1.6	--
		Middle	4	0.02	0.61	3	<0.2	6	<1	<0.1	2	<1	16	1.4	<1
			6	0.02	0.62	2	<0.2	7	4	<0.1	2	<1	13	1.2	<1
			--	--	--	--	--	--	--	--	--	--	8	1.3	--
		Bottom	22	0.03	0.4	3	<0.2	3	1	<0.1	2	<1	8	1.3	<1
			18	0.03	0.39	2	<0.2	4	1	<0.1	2	<1	10	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	1.3	--
	Mid-flood	Surface	9	0.06	0.74	3	<0.2	7	<1	<0.1	2	<1	11	1	<1
			8	0.05	0.72	2	<0.2	4	2	<0.1	2	<1	10	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Middle	10	0.07	0.51	3	<0.2	5	<1	<0.1	2	<1	9	1	<1
			10	0.07	0.51	3	<0.2	3	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	18	0.07	0.44	2	<0.2	2	1	<0.1	2	<1	<4	0.6	<1
			20	0.07	0.44	3	<0.2	2	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
2009/08/06	Mid-ebb	Surface	8	0.08	1	2	<0.2	5	<1	<0.1	2	<1	13	1.4	<1
			8	0.08	1	2	<0.2	5	<1	<0.1	2	<1	12	1.9	<1
			--	--	--	--	--	--	--	--	--	--	16	1.3	--
		Middle	7	0.08	1	<2	<0.2	5	<1	<0.1	2	<1	9	0.6	<1
			7	0.08	1.01	2	<0.2	6	<1	<0.1	2	<1	16	0.6	<1
			--	--	--	--	--	--	--	--	--	--	10	0.8	--
		Bottom	22	0.08	0.84	2	<0.2	2	1	<0.1	2	<1	7	0.6	<1
			19	0.07	0.84	2	<0.2	2	1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	--
	Mid-flood	Surface	8	0.09	1.04	2	<0.2	3	<1	<0.1	2	<1	6	1.7	<1
			9	0.09	1.03	2	<0.2	7	<1	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	1.6	--
		Middle	9	0.07	0.73	2	<0.2	2	<1	<0.1	2	<1	11	1.4	<1
			8	0.08	0.73	2	<0.2	2	<1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Bottom	12	0.07	0.65	2	<0.2	1	<1	<0.1	2	<1	5	1.1	<1
			13	0.07	0.61	2	<0.2	2	<1	<0.1	2	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--

Annex D30 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	<0.01	1.08	3	<0.2	5	<1	<0.1	2	<1	16	1.2	<1
			5	<0.01	1.09	3	<0.2	6	<1	<0.1	2	<1	18	1.4	<1
			--	--	--	--	--	--	--	--	--	--	13	1.4	--
		Middle	13	0.03	0.68	3	<0.2	3	<1	<0.1	2	<1	7	<0.5	<1
			12	0.04	0.69	3	<0.2	2	<1	<0.1	2	<1	7	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	31	0.02	0.48	3	<0.2	14	3	<0.1	2	<1	15	0.7	1
			30	0.02	0.48	3	<0.2	13	3	<0.1	2	<1	13	<0.5	1
			--	--	--	--	--	--	--	--	--	--	11	<0.5	--
	Mid-flood	Surface	7	0.06	1	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			5	0.06	0.99	4	<0.2	2	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	13	0.13	0.87	3	<0.2	8	1	<0.1	2	<1	10	0.8	<1
			15	0.12	0.85	2	<0.2	18	2	<0.1	2	<1	12	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	12	<0.5	--
		Bottom	21	0.09	0.77	3	<0.2	8	2	<0.1	3	<1	9	<0.5	1
			18	0.08	0.76	3	<0.2	19	2	<0.1	4	<1	16	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	13	<0.5	--
2009/08/12	Mid-ebb	Surface	6	0.12	1.25	2	<0.2	3	<1	<0.1	3	<1	4	0.6	<1
			7	0.1	1.23	2	<0.2	3	<1	<0.1	3	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	10	0.04	0.74	2	<0.2	3	<1	<0.1	2	<1	7	0.6	<1
			9	0.05	0.76	3	<0.2	3	<1	<0.1	2	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Bottom	11	0.04	0.66	2	<0.2	1	<1	<0.1	2	<1	<4	0.8	<1
			12	0.05	0.67	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	32	0.04	0.62	3	<0.2	2	1	<0.1	2	<1	4	<0.5	<1
			29	0.04	0.62	2	<0.2	2	1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	18	0.05	0.65	2	<0.2	3	1	<0.1	2	<1	5	0.5	<1
			18	0.04	0.64	3	<0.2	3	1	<0.1	2	<1	5	0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	9	0.03	0.85	2	<0.2	4	<1	<0.1	2	<1	5	0.5	<1
			9	0.03	0.86	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	8	0.12	1.21	2	<0.2	2	<1	<0.1	2	<1	<4	1.9	<1
			7	0.12	1.2	2	<0.2	4	<1	<0.1	3	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.5	--
		Middle	7	0.06	0.81	2	<0.2	2	<1	<0.1	2	<1	5	1.6	<1
			6	0.06	0.81	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	14	0.08	0.67	3	<0.2	28	3	<0.1	2	<1	16	1	<1
			15	0.1	0.69	2	<0.2	17	2	<0.1	2	<1	14	1.7	<1
			--	--	--	--	--	--	--	--	--	--	13	1.4	--

Annex D30 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	6	0.08	1.18	2	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			6	0.08	1.2	2	<0.2	6	<1	<0.1	3	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	9	0.07	0.76	2	<0.2	2	<1	<0.1	1	<1	<4	1	<1
			9	0.07	0.75	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Bottom	20	0.06	0.59	2	<0.2	1	<1	<0.1	2	<1	<4	0.8	<1
			22	0.06	0.62	<2	<0.2	1	<1	<0.1	1	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.9	--
2009/08/16	Mid-ebb	Surface	6	<0.01	1.36	<2	<0.2	3	<1	<0.1	2	<1	5	1.2	<1
			6	<0.01	1.37	2	<0.2	4	<1	<0.1	3	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
		Middle	6	0.05	0.85	2	<0.2	5	1	<0.1	2	<1	9	1.5	<1
			6	0.05	0.83	3	<0.2	6	1	<0.1	2	<1	10	1.3	<1
			--	--	--	--	--	--	--	--	--	--	8	1.1	--
		Bottom	16	0.02	0.52	<2	<0.2	<1	<1	<0.1	1	<1	4	<0.5	<1
			15	0.01	0.49	3	<0.2	1	<1	<0.1	1	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--
	Mid-flood	Surface	5	0.02	1.3	3	<0.2	2	1	<0.1	3	<1	20	1.7	<1
			6	0.02	1.25	<2	<0.2	14	2	<0.1	2	<1	15	1.8	<1
			--	--	--	--	--	--	--	--	--	--	10	1.6	--
		Middle	16	0.03	0.64	3	<0.2	5	2	<0.1	3	<1	9	1.6	<1
			15	0.02	0.64	3	<0.2	5	2	<0.1	2	<1	13	1.2	<1
			--	--	--	--	--	--	--	--	--	--	8	1.8	--
		Bottom	18	0.08	0.68	3	<0.2	11	2	<0.1	2	<1	14	1.3	<1
			17	0.06	0.64	<2	<0.2	15	2	<0.1	2	<1	15	0.7	<1
			--	--	--	--	--	--	--	--	--	--	21	1.4	--
2009/08/18	Mid-ebb	Surface	7	0.03	0.94	2	<0.2	2	<1	<0.1	3	<1	5	1.3	<1
			8	0.03	0.93	2	<0.2	4	<1	<0.1	3	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	27	0.04	0.62	2	<0.2	3	2	<0.1	4	<1	6	1.1	<1
			27	0.04	0.6	3	<0.2	5	2	<0.1	2	<1	7	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Bottom	28	0.03	0.59	2	<0.2	18	3	<0.1	3	<1	13	1.3	<1
			32	0.03	0.59	2	<0.2	14	3	<0.1	5	<1	14	1.8	<1
			--	--	--	--	--	--	--	--	--	--	16	1.8	--
	Mid-flood	Surface	9	0.07	1.13	2	<0.2	3	<1	<0.1	4	<1	<4	1.4	<1
			10	0.06	1.12	2	<0.2	4	<1	<0.1	3	<1	5	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	22	0.07	0.73	2	<0.2	4	2	<0.1	2	<1	5	1.1	<1
			23	0.07	0.73	3	<0.2	4	1	<0.1	4	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	1.8	--
		Bottom	59	0.07	0.7	3	<0.2	17	7	<0.1	11	<1	20	1.4	2
			95	0.09	0.72	3	<0.2	15	5	<0.1	4	<1	18	2.3	2
			--	--	--	--	--	--	--	--	--	--	20	2.4	--

Annex D30 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	11	0.03	0.88	2	<0.2	11	<1	<0.1	2	<1	5	0.6	<1
			12	0.03	0.92	2	<0.2	<1	<1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Middle	14	0.05	0.81	2	<0.2	<1	1	<0.1	2	<1	<4	0.8	<1
			15	0.05	0.82	2	<0.2	4	2	<0.1	3	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Bottom	20	0.02	0.73	2	<0.2	1	<1	<0.1	2	<1	5	<0.5	<1
			20	0.02	0.72	2	<0.2	<1	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	11	0.04	0.9	2	<0.2	6	<1	<0.1	2	<1	6	0.9	<1
			11	0.05	0.91	2	<0.2	3	<1	<0.1	3	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Middle	29	0.06	0.82	3	<0.2	8	2	<0.1	10	<1	8	0.9	<1
			31	0.06	0.82	3	<0.2	11	2	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	76	0.07	0.79	2	<0.2	44	5	<0.1	3	<1	19	1.2	2
			77	0.06	0.77	2	<0.2	52	5	<0.1	4	<1	20	1.1	2
			--	--	--	--	--	--	--	--	--	--	26	0.8	--
2009/08/23	Mid-ebb	Surface	10	<0.01	0.88	2	<0.2	7	<1	<0.1	2	<1	9	<0.5	<1
			10	<0.01	0.9	2	<0.2	8	<1	<0.1	2	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Middle	21	0.02	0.67	2	<0.2	6	1	<0.1	2	<1	8	0.7	<1
			20	0.03	0.68	2	<0.2	6	1	<0.1	2	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--
		Bottom	108	0.09	0.63	4	<0.2	18	5	<0.1	3	<1	16	2.6	2
			118	0.09	0.64	4	<0.2	22	7	<0.1	3	<1	21	2.5	2
			--	--	--	--	--	--	--	--	--	--	21	2.2	--
	Mid-flood	Surface	12	0.04	0.9	3	<0.2	3	<1	<0.1	3	<1	<4	0.6	<1
			12	0.04	0.89	2	<0.2	3	<1	<0.1	2	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Middle	47	0.05	0.85	2	<0.2	3	2	<0.1	3	<1	6	1.3	1
			66	0.05	0.82	3	<0.2	3	2	<0.1	3	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Bottom	100	0.06	0.81	3	<0.2	4	4	<0.1	4	<1	10	0.8	2
			82	0.06	0.8	3	<0.2	4	4	<0.1	3	<1	11	0.6	2
			--	--	--	--	--	--	--	--	--	--	10	0.7	--

Annex D31 - Baseline Water Quality Monitoring Results

Sampling Station : MW1

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.07	<2	<0.2	24	2	<0.1	6	<1	24	<0.5	<1
			4	<0.01	1.07	2	<0.2	22	2	<0.1	6	<1	39	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	37	<0.5	<1
		Middle	4	0.02	0.94	<2	<0.2	6	1	<0.1	4	<1	43	0.5	<1
			<2	0.02	0.92	<2	<0.2	4	<1	<0.1	5	<1	44	1.5	<1
			--	--	--	--	--	--	--	--	--	--	37	1.6	<1
		Bottom	8	0.04	0.51	2	<0.2	<1	<1	<0.1	2	<1	30	<0.5	<1
			6	0.04	0.5	2	<0.2	<1	<1	<0.1	2	<1	38	0.6	<1
			--	--	--	--	--	--	--	--	--	--	43	<0.5	<1
	Mid-flood	Surface	3	0.03	1.07	2	<0.2	2	<1	<0.1	3	<1	23	0.8	--
			4	0.04	1.08	2	<0.2	1	<1	<0.1	2	<1	47	<0.5	--
			--	--	--	--	--	--	--	--	--	--	18	0.7	--
		Middle	5	0.05	0.75	2	<0.2	1	<1	<0.1	2	<1	15	<0.5	--
			3	0.05	0.74	2	<0.2	1	<1	<0.1	2	<1	18	<0.5	--
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
		Bottom	4	0.06	0.55	<2	<0.2	<1	<1	<0.1	2	<1	24	<0.5	--
			7	0.06	0.55	<2	<0.2	<1	<1	<0.1	2	<1	38	<0.5	--
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
2009/07/30	Mid-ebb	Surface	6	<0.01	0.47	2	<0.2	8	1	<0.1	3	<1	8	1.9	<1
			8	<0.01	0.48	2	<0.2	8	<1	<0.1	3	<1	5	2.1	<1
			--	--	--	--	--	--	--	--	--	--	5	2.6	--
		Middle	6	0.01	0.35	2	<0.2	5	1	<0.1	4	<1	8	1	1
			5	0.01	0.35	2	<0.2	5	1	<0.1	4	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Bottom	5	<0.01	0.23	2	<0.2	<1	<1	<0.1	1	<1	6	<0.5	<1
			6	<0.01	0.23	2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--
	Mid-flood	Surface	6	<0.01	0.97	<2	<0.2	15	1	<0.1	2	<1	12	<0.5	<1
			4	<0.01	0.96	<2	<0.2	11	1	<0.1	3	<1	13	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	0.5	--
		Middle	6	0.02	0.48	<2	<0.2	5	1	<0.1	2	<1	14	<0.5	<1
			7	0.02	0.47	<2	<0.2	7	1	<0.1	2	<1	14	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	18	<0.5	--
		Bottom	9	0.02	0.35	<2	<0.2	1	<1	<0.1	<1	<1	4	<0.5	<1
			8	0.02	0.34	<2	<0.2	1	<1	<0.1	<1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/01	Mid-ebb	Surface	<2	<0.01	0.94	<2	<0.2	7	<1	<0.1	2	<1	8	0.7	<1
			<2	<0.01	0.97	<2	<0.2	7	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	0.6	--
		Middle	5	<0.01	0.61	<2	<0.2	9	1	<0.1	2	<1	12	0.9	<1
			4	<0.01	0.61	<2	<0.2	12	1	<0.1	2	<1	12	0.9	<1
			--	--	--	--	--	--	--	--	--	--	11	0.9	--
		Bottom	7	<0.01	0.25	<2	<0.2	<1	<1	<0.1	<1	<1	5	0.8	<1
			7	<0.01	0.27	<2	<0.2	<1	<1	<0.1	<1	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--

Annex D31 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	5	0.01	0.75	<2	<0.2	13	2	<0.1	3	<1	17	0.6	<1
			4	<0.01	0.7	<2	<0.2	4	2	<0.1	2	<1	5	0.7	1
			--	--	--	--	--	--	--	--	--	--	10	1.4	--
		Middle	6	0.04	0.46	<2	<0.2	10	2	<0.1	3	<1	11	0.8	<1
			7	0.03	0.45	<2	<0.2	8	<1	<0.1	3	<1	12	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Bottom	6	0.01	0.25	<2	<0.2	<1	<1	<0.1	<1	<1	5	0.6	<1
			5	<0.01	0.4	<2	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	6	0.05	0.48	2	<0.2	3	1	<0.1	2	<1	11	1.4	<1
			5	0.05	0.47	2	<0.2	3	1	<0.1	2	<1	12	1.2	<1
			--	--	--	--	--	--	--	--	--	--	10	1	--
		Middle	6	0.05	0.36	2	<0.2	3	1	<0.1	2	<1	13	0.7	<1
			8	0.05	0.36	2	<0.2	5	2	<0.1	2	<1	14	0.9	<1
			--	--	--	--	--	--	--	--	--	--	13	1.1	--
		Bottom	7	0.04	0.26	2	<0.2	<1	<1	<0.1	1	<1	5	<0.5	<1
			6	0.04	0.28	2	<0.2	<1	<1	<0.1	1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/06	Mid-ebb	Surface	4	0.08	0.79	<2	<0.2	3	1	<0.1	2	<1	6	1.9	<1
			5	0.08	0.76	2	<0.2	2	<1	<0.1	2	<1	6	1.8	<1
			--	--	--	--	--	--	--	--	--	--	5	2	--
		Middle	6	0.08	0.69	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			6	0.08	0.68	2	<0.2	2	<1	<0.1	2	<1	4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Bottom	9	0.07	0.64	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			9	0.08	0.65	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.09	0.75	2	<0.2	5	1	<0.1	2	<1	9	1.6	<1
			7	0.09	0.78	<2	<0.2	7	<1	<0.1	3	<1	9	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	1.3	--
		Middle	8	0.08	0.48	<2	<0.2	4	<1	<0.1	2	<1	10	<0.5	<1
			7	0.07	0.48	<2	<0.2	4	<1	<0.1	2	<1	23	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	10	1.5	--
		Bottom	8	0.11	0.47	2	<0.2	1	<1	<0.1	1	<1	6	<0.5	<1
			9	0.11	0.46	2	<0.2	1	<1	<0.1	1	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--

Annex D31 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	0.04	0.99	3	<0.2	3	1	<0.1	4	<1	4	0.9	2
			8	0.04	1.01	3	<0.2	3	1	<0.1	3	<1	4	1.1	2
			--	--	--	--	--	--	--	--	--	--	6	1	--
		Middle	7	0.05	0.91	3	<0.2	3	1	<0.1	2	<1	6	0.7	<1
			6	0.05	0.92	3	<0.2	3	<1	<0.1	2	<1	5	0.8	1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Bottom	10	0.07	0.77	3	<0.2	19	3	<0.1	4	<1	26	0.7	<1
			9	0.07	0.77	3	<0.2	15	2	<0.1	3	<1	14	0.6	<1
			--	--	--	--	--	--	--	--	--	--	19	0.6	--
	Mid-flood	Surface	7	0.05	1.1	3	<0.2	2	<1	<0.1	2	<1	6	<0.5	<1
			5	0.06	1.1	3	<0.2	2	<1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Middle	6	0.13	0.8	<2	<0.2	7	1	<0.1	2	<1	14	<0.5	<1
			6	0.11	0.79	2	<0.2	7	1	<0.1	2	<1	17	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	13	<0.5	--
		Bottom	8	0.14	0.7	2	<0.2	17	2	<0.1	2	<1	16	<0.5	<1
			6	0.15	0.71	<2	<0.2	16	2	<0.1	2	<1	15	<0.5	1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	--
2009/08/12	Mid-ebb	Surface	6	0.04	0.77	3	<0.2	4	<1	<0.1	3	<1	5	<0.5	<1
			5	0.04	0.77	2	<0.2	5	<1	<0.1	2	<1	16	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	5	0.04	0.72	3	<0.2	1	<1	<0.1	2	<1	<4	0.5	<1
			4	0.04	0.73	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	9	0.04	0.49	2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			8	0.04	0.49	2	<0.2	3	<1	<0.1	1	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.04	0.82	2	<0.2	3	<1	<0.1	2	<1	7	<0.5	<1
			5	0.04	0.82	<2	<0.2	2	<1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Middle	6	0.04	0.63	2	<0.2	2	<1	<0.1	2	<1	7	<0.5	<1
			7	0.04	0.63	2	<0.2	2	<1	<0.1	1	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	9	0.05	0.48	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			8	0.05	0.5	<2	<0.2	2	<1	<0.1	1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	5	0.07	0.73	2	<0.2	6	<1	<0.1	2	<1	6	1.4	<1
			4	0.07	0.74	2	<0.2	6	2	<0.1	2	<1	8	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	1.4	--
		Middle	6	0.04	0.32	2	<0.2	2	<1	<0.1	<1	<1	<4	1.2	<1
			7	0.04	0.33	2	<0.2	2	<1	<0.1	1	<1	<4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.9	--
		Bottom	7	0.03	0.29	<2	<0.2	2	<1	<0.1	<1	<1	4	1.5	<1
			9	0.03	0.29	2	<0.2	2	<1	<0.1	<1	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--

Annex D31 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	6	0.08	0.87	2	<0.2	4	<1	<0.1	2	<1	6	1.6	<1
			5	0.07	0.86	<2	<0.2	3	<1	<0.1	2	<1	5	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1.6	--
		Middle	4	0.06	0.54	2	<0.2	1	<1	<0.1	1	<1	4	1.2	<1
			6	0.06	0.52	<2	<0.2	2	<1	<0.1	1	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	13	0.04	0.36	<2	<0.2	<1	<1	<0.1	1	<1	<4	1	<1
			14	0.05	0.37	<2	<0.2	<1	<1	<0.1	1	<1	5	1.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
2009/08/16	Mid-ebb	Surface	4	0.04	1.21	<2	<0.2	4	<1	<0.1	3	<1	9	1.5	<1
			5	0.04	1.2	2	<0.2	4	<1	<0.1	3	<1	8	1.5	<1
			--	--	--	--	--	--	--	--	--	--	10	1.6	--
		Middle	4	0.05	0.62	2	<0.2	11	<1	<0.1	2	<1	17	1.8	<1
			4	0.05	0.63	2	<0.2	15	<1	<0.1	2	<1	23	1.7	<1
			--	--	--	--	--	--	--	--	--	--	15	1.5	--
		Bottom	8	0.04	0.34	<2	<0.2	<1	<1	<0.1	<1	<1	5	0.7	<1
			9	0.04	0.34	2	<0.2	<1	<1	<0.1	<1	<1	9	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	1.1	--
	Mid-flood	Surface	7	0.02	0.65	2	<0.2	4	1	<0.1	1	<1	10	1.4	<1
			7	0.02	0.63	2	<0.2	5	<1	<0.1	3	<1	5	1.5	<1
			--	--	--	--	--	--	--	--	--	--	5	2.1	--
		Middle	8	0.04	0.3	<2	<0.2	4	<1	<0.1	2	<1	4	1.2	<1
			9	0.03	0.3	2	<0.2	7	1	<0.1	<1	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	10	1.2	--
		Bottom	13	0.02	0.26	<2	<0.2	8	1	<0.1	<1	<1	8	1	<1
			11	0.03	0.27	3	<0.2	6	<1	<0.1	1	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	8	1.2	--
2009/08/18	Mid-ebb	Surface	6	0.03	0.88	2	<0.2	3	<1	<0.1	2	<1	10	1.5	<1
			5	0.03	0.88	2	<0.2	2	<1	<0.1	2	<1	9	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	1.8	--
		Middle	7	0.03	0.58	2	<0.2	3	<1	<0.1	2	<1	5	0.9	<1
			7	0.02	0.57	2	<0.2	2	<1	<0.1	2	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Bottom	12	0.03	0.38	2	<0.2	<1	<1	<0.1	2	<1	8	1.1	<1
			10	0.02	0.38	<2	<0.2	<1	<1	<0.1	1	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	9	0.9	--
	Mid-flood	Surface	10	0.04	0.52	2	<0.2	5	<1	<0.1	2	<1	8	0.6	<1
			12	0.05	0.53	<2	<0.2	4	<1	<0.1	2	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--
		Middle	21	0.03	0.42	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			23	0.03	0.42	2	<0.2	2	<1	<0.1	2	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Bottom	24	0.02	0.37	2	<0.2	15	2	<0.1	4	<1	15	<0.5	1
			26	0.02	0.37	2	<0.2	15	2	<0.1	3	<1	13	0.6	2
			--	--	--	--	--	--	--	--	--	--	20	<0.5	--

Annex D31 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	9	0.02	0.86	2	<0.2	4	1	<0.1	3	<1	5	1.2	<1
			9	0.02	0.85	2	<0.2	4	1	<0.1	3	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Middle	12	0.03	0.78	2	<0.2	4	1	<0.1	2	<1	8	1	<1
			13	0.03	0.79	2	<0.2	3	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	36	0.06	0.79	3	<0.2	9	4	<0.1	6	<1	13	2.2	1
			40	0.04	0.75	2	<0.2	8	4	<0.1	5	<1	13	2	2
			--	--	--	--	--	--	--	--	--	--	10	1.8	--
	Mid-flood	Surface	12	0.05	0.48	2	<0.2	1	<1	<0.1	1	<1	6	0.7	<1
			13	0.05	0.48	2	<0.2	<1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	1	--
		Middle	8	0.04	0.64	2	<0.2	3	1	<0.1	2	<1	5	1.2	<1
			9	0.04	0.64	2	<0.2	2	<1	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.6	--
		Bottom	7	0.04	0.83	2	<0.2	2	<1	<0.1	2	<1	8	1.1	<1
			7	0.04	0.83	2	<0.2	2	<1	<0.1	2	<1	4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
2009/08/23	Mid-ebb	Surface	8	0.04	0.77	2	<0.2	2	<1	<0.1	2	<1	7	1	<1
			9	0.03	0.77	2	<0.2	2	<1	<0.1	2	<1	8	1.2	<1
			--	--	--	--	--	--	--	--	--	--	8	1.1	--
		Middle	13	0.05	0.66	2	<0.2	2	<1	<0.1	2	<1	16	0.9	<1
			12	0.05	0.66	2	<0.2	3	<1	<0.1	2	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	5	0.9	--
		Bottom	14	0.04	0.65	2	<0.2	3	<1	<0.1	3	<1	8	1	<1
			13	0.04	0.65	2	<0.2	4	<1	<0.1	4	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--
	Mid-flood	Surface	9	0.06	0.9	2	<0.2	4	<1	<0.1	3	<1	<4	<0.5	<1
			8	0.05	0.88	2	<0.2	3	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.5	--
		Middle	12	0.07	0.69	2	<0.2	2	<1	<0.1	2	<1	7	<0.5	<1
			12	0.06	0.68	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.5	--
		Bottom	14	0.06	0.55	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			12	0.07	0.57	2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--

Annex D32 - Baseline Water Quality Monitoring Results

Sampling Station : NM1

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.3	2	<0.2	32	<1	<0.1	2	<1	36	0.6	<1
			4	<0.01	1.28	2	<0.2	43	1	<0.1	2	<1	36	0.6	<1
			--	--	--	--	--	--	--	--	--	--	30	<0.5	<1
		Middle	4	0.03	0.4	<2	<0.2	<1	<1	<0.1	2	<1	20	<0.5	<1
			5	0.03	0.4	<2	<0.2	1	<1	<0.1	2	<1	18	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	32	<0.5	<1
		Bottom	7	0.02	0.28	<2	<0.2	<1	<1	<0.1	2	<1	47	<0.5	<1
			7	0.02	0.29	<2	<0.2	<1	<1	<0.1	2	<1	40	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	31	<0.5	<1
	Mid-flood	Surface	4	0.01	1.07	<2	<0.2	1	<1	<0.1	3	<1	47	0.5	<1
			4	0.01	1.08	<2	<0.2	1	<1	<0.1	3	<1	37	0.8	<1
			--	--	--	--	--	--	--	--	--	--	43	0.6	<1
		Middle	5	0.06	0.47	<2	<0.2	<1	<1	<0.1	2	<1	11	<0.5	<1
			4	0.06	0.47	<2	<0.2	<1	<1	<0.1	2	<1	10	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	13	<0.5	<1
		Bottom	12	0.04	0.34	<2	<0.2	1	<1	<0.1	1	<1	12	<0.5	<1
			16	0.04	0.34	<2	<0.2	1	<1	<0.1	1	<1	10	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	<1
2009/07/30	Mid-ebb	Surface	6	<0.01	0.41	3	<0.2	7	<1	<0.1	2	<1	4	1.8	<1
			6	<0.01	0.43	<2	<0.2	7	<1	<0.1	2	<1	4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	2.2	--
		Middle	7	<0.01	0.23	2	<0.2	16	2	<0.1	1	<1	20	<0.5	<1
			7	<0.01	0.23	<2	<0.2	18	2	<0.1	1	<1	23	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	31	0.6	--
		Bottom	7	<0.01	0.19	2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			7	<0.01	0.19	2	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	7	0.01	0.88	<2	<0.2	22	1	<0.1	2	<1	14	<0.5	<1
			7	<0.01	0.86	<2	<0.2	24	<1	<0.1	2	<1	12	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	12	<0.5	--
		Middle	5	0.02	0.36	<2	<0.2	3	<1	<0.1	1	<1	5	<0.5	<1
			4	0.02	0.36	<2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	11	<0.01	0.24	<2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			8	<0.01	0.24	<2	<0.2	1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/01	Mid-ebb	Surface	<2	<0.01	1.01	<2	<0.2	5	<1	<0.1	3	<1	5	0.7	<1
			<2	<0.01	1.02	<2	<0.2	4	<1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Middle	5	0.01	0.29	<2	<0.2	10	1	<0.1	1	<1	12	0.8	<1
			5	0.01	0.29	<2	<0.2	12	1	<0.1	1	<1	13	0.8	<1
			--	--	--	--	--	--	--	--	--	--	12	0.8	--
		Bottom	6	<0.01	0.21	<2	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			7	<0.01	0.2	<2	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--

Annex D32 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	3	<0.01	0.92	2	<0.2	6	<1	<0.1	2	<1	5	0.8	<1
			3	<0.01	0.97	2	<0.2	6	1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	9	0.6	--
		Middle	5	<0.01	0.27	2	<0.2	5	1	<0.1	<1	<1	6	0.9	<1
			4	<0.01	0.26	2	<0.2	3	<1	<0.1	<1	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.6	--
		Bottom	13	<0.01	0.2	2	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			10	<0.01	0.2	2	<0.2	<1	<1	<0.1	<1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	3	0.04	0.55	2	<0.2	8	<1	<0.1	1	<1	7	0.8	<1
			3	0.03	0.54	2	<0.2	6	<1	<0.1	2	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	11	0.9	--
		Middle	8	0.04	0.28	2	<0.2	4	2	<0.1	1	<1	8	0.6	<1
			7	0.04	0.28	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	0.6	--
		Bottom	16	0.04	0.23	2	<0.2	2	<1	<0.1	1	<1	5	<0.5	<1
			18	0.04	0.24	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/6	Mid-ebb	Surface	3	0.08	0.84	<2	<0.2	5	<1	<0.1	3	<1	4	1.8	<1
			4	0.08	0.82	2	<0.2	7	<1	<0.1	2	<1	6	1.7	<1
			--	--	--	--	--	--	--	--	--	--	4	2	--
		Middle	9	0.08	0.53	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.1	0.53	<2	<0.2	2	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	10	0.08	0.43	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			12	0.08	0.44	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.09	0.84	2	<0.2	4	<1	<0.1	2	<1	7	0.6	<1
			6	0.08	0.79	2	<0.2	6	<1	<0.1	2	<1	10	0.6	<1
			--	--	--	--	--	--	--	--	--	--	7	0.6	--
		Middle	10	0.08	0.48	2	<0.2	4	<1	<0.1	2	<1	14	<0.5	<1
			9	0.08	0.44	2	<0.2	4	<1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Bottom	10	0.09	0.45	<2	<0.2	4	<1	<0.1	2	<1	8	<0.5	<1
			12	0.1	0.46	<2	<0.2	1	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--

Annex D32 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	0.02	1.02	3	<0.2	3	1	<0.1	2	<1	4	0.7	<1
			6	0.02	1.01	4	<0.2	2	<1	<0.1	2	<1	7	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Middle	7	0.06	0.73	3	<0.2	3	1	<0.1	2	<1	5	<0.5	<1
			8	0.07	0.73	3	<0.2	5	<1	<0.1	2	<1	18	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	41	0.08	0.4	2	<0.2	9	3	<0.1	2	<1	11	0.5	2
			43	0.08	0.39	2	<0.2	9	2	<0.1	2	<1	9	<0.5	2
			--	--	--	--	--	--	--	--	--	--	8	0.5	--
	Mid-flood	Surface	6	0.06	1.02	4	<0.2	3	<1	<0.1	2	<1	<4	0.6	<1
			5	0.07	1	2	<0.2	4	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	10	0.17	0.64	3	<0.2	6	<1	<0.1	1	<1	8	<0.5	<1
			13	0.15	0.61	3	<0.2	3	<1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	29	0.14	0.46	4	<0.2	9	2	<0.1	2	<1	10	<0.5	1
			30	0.15	0.47	2	<0.2	8	2	<0.1	2	<1	9	0.5	1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
2009/08/12	Mid-ebb	Surface	5	0.04	0.72	2	<0.2	3	<1	<0.1	2	<1	4	<0.5	<1
			4	0.04	0.72	2	<0.2	4	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	13	0.03	0.43	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			12	0.03	0.43	2	<0.2	1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	8	0.03	0.32	2	<0.2	2	<1	<0.1	<1	<1	<4	<0.5	<1
			9	0.02	0.31	2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	4	0.04	0.79	<2	<0.2	3	<1	<0.1	2	<1	5	<0.5	<1
			5	0.04	0.78	2	<0.2	3	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Middle	6	0.05	0.4	<2	<0.2	2	<1	<0.1	1	<1	5	0.6	<1
			6	0.05	0.4	3	<0.2	2	<1	<0.1	1	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	15	0.05	0.35	<2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			14	0.05	0.35	<2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	3	0.05	0.97	2	<0.2	18	1	<0.1	2	<1	17	1.1	<1
			3	0.06	0.97	2	<0.2	22	<1	<0.1	2	<1	19	1	<1
			--	--	--	--	--	--	--	--	--	--	8	1.2	--
		Middle	8	0.03	0.29	2	<0.2	1	<1	<0.1	1	<1	<4	1.1	<1
			8	0.03	0.29	2	<0.2	1	<1	<0.1	<1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	9	0.06	0.31	4	<0.2	11	2	<0.1	1	<1	11	1.8	<1
			8	0.05	0.31	2	<0.2	10	<1	<0.1	1	<1	8	1.5	<1
			--	--	--	--	--	--	--	--	--	--	8	1.8	--

Annex D32 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	4	0.07	0.89	2	<0.2	5	<1	<0.1	2	<1	5	1.4	<1
			4	0.07	0.88	2	<0.2	11	<1	<0.1	2	<1	11	1.3	<1
			--	--	--	--	--	--	--	--	--	--	9	1.5	--
		Middle	10	0.03	0.3	2	<0.2	2	<1	<0.1	<1	<1	<4	1.2	<1
			10	0.04	0.3	<2	<0.2	8	1	<0.1	1	<1	12	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	15	0.03	0.26	<2	<0.2	<1	<1	<0.1	<1	<1	<4	0.9	<1
			14	0.03	0.26	<2	<0.2	<1	<1	<0.1	<1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
2009/08/16	Mid-ebb	Surface	4	0.03	1.16	3	<0.2	5	<1	<0.1	3	<1	9	1.8	<1
			4	0.03	1.17	<2	<0.2	4	<1	<0.1	3	<1	7	1.6	<1
			--	--	--	--	--	--	--	--	--	--	9	1.5	--
		Middle	8	0.05	0.35	<2	<0.2	4	1	<0.1	<1	<1	7	1.7	<1
			7	0.05	0.36	2	<0.2	6	1	<0.1	1	<1	8	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	1.5	--
		Bottom	11	0.02	0.23	2	<0.2	1	<1	<0.1	<1	<1	7	1.1	<1
			13	0.02	0.21	2	<0.2	1	<1	<0.1	<1	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
	Mid-flood	Surface	5	<0.01	0.94	<2	<0.2	5	2	<0.1	2	<1	6	1.9	<1
			5	<0.01	0.92	2	<0.2	3	<1	<0.1	2	<1	7	1.8	<1
			--	--	--	--	--	--	--	--	--	--	11	1.8	--
		Middle	10	0.04	0.29	<2	<0.2	2	2	<0.1	<1	<1	7	1.1	<1
			11	0.04	0.28	<2	<0.2	3	1	<0.1	1	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	8	0.9	--
		Bottom	17	0.02	0.22	<2	<0.2	<1	<1	<0.1	1	<1	<4	0.5	<1
			16	0.02	0.22	2	<0.2	2	1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	5	0.02	0.81	2	<0.2	3	<1	<0.1	2	<1	4	1.6	<1
			6	0.02	0.8	2	<0.2	4	<1	<0.1	2	<1	4	1.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.9	--
		Middle	9	0.03	0.41	2	<0.2	3	<1	<0.1	1	<1	4	1.4	<1
			10	0.03	0.4	2	<0.2	3	<1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.3	--
		Bottom	25	0.02	0.28	2	<0.2	1	1	<0.1	2	<1	4	1.3	<1
			26	0.02	0.28	<2	<0.2	1	<1	<0.1	3	<1	6	1.4	<1
			--	--	--	--	--	--	--	--	--	--	5	1.3	--
	Mid-flood	Surface	17	0.03	0.44	2	<0.2	6	1	<0.1	2	<1	6	1	<1
			17	0.04	0.45	2	<0.2	4	<1	<0.1	2	<1	6	0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	0.6	--
		Middle	23	0.02	0.3	2	<0.2	2	1	<0.1	1	<1	4	0.6	<1
			24	0.03	0.34	2	<0.2	2	1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	26	0.02	0.28	2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			28	0.02	0.28	<2	<0.2	1	<1	<0.1	1	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--

Annex D32 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	9	0.03	0.87	2	<0.2	4	<1	<0.1	2	<1	5	1.3	<1
			9	0.03	0.85	2	<0.2	4	<1	<0.1	2	<1	5	1.5	<1
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
		Middle	16	0.04	0.69	2	<0.2	2	1	<0.1	2	<1	6	0.8	<1
			17	0.04	0.67	2	<0.2	2	<1	<0.1	2	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	11	1.1	--
		Bottom	27	0.04	0.4	<2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			24	0.04	0.41	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.7	--
	Mid-flood	Surface	7	0.05	0.83	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			8	0.05	0.83	2	<0.2	2	<1	<0.1	2	<1	5	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	14	0.05	0.52	2	<0.2	2	2	<0.1	2	<1	5	1	<1
			11	0.06	0.53	2	<0.2	2	2	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	38	0.05	0.41	2	<0.2	2	1	<0.1	1	<1	5	0.5	<1
			28	0.05	0.45	2	<0.2	2	1	<0.1	1	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.7	--
2009/08/23	Mid-ebb	Surface	8	0.02	0.76	2	<0.2	3	<1	<0.1	2	<1	8	0.9	<1
			4	0.03	0.77	2	<0.2	2	<1	<0.1	2	<1	11	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	6	0.05	0.61	2	<0.2	1	<1	<0.1	2	<1	8	0.6	<1
			4	0.05	0.61	<2	<0.2	1	<1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	8	0.5	--
		Bottom	21	0.05	0.4	2	<0.2	1	<1	<0.1	1	<1	6	0.5	<1
			23	0.05	0.41	2	<0.2	1	<1	<0.1	1	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
	Mid-flood	Surface	8	0.05	0.68	3	<0.2	10	<1	<0.1	3	<1	8	1	<1
			7	0.05	0.67	2	<0.2	14	<1	<0.1	2	<1	8	1.1	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Middle	30	0.06	0.57	2	<0.2	2	<1	<0.1	2	<1	4	1.1	<1
			32	0.08	0.57	2	<0.2	1	<1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	17	0.8	--
		Bottom	53	0.06	0.51	2	<0.2	2	<1	<0.1	3	<1	5	<0.5	<1
			51	0.06	0.51	2	<0.2	2	<1	<0.1	2	<1	4	0.6	1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--

Annex D33 - Baseline Water Quality Monitoring Results

Sampling Station : NM2

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	5	<0.01	1.34	2	<0.2	9	<1	<0.1	2	<1	22	0.9	--
			4	<0.01	1.33	2	<0.2	9	<1	<0.1	2	<1	34	1.1	--
			--	--	--	--	--	--	--	--	--	--	46	1.6	--
		Middle	6	0.03	0.95	<2	<0.2	5	<1	<0.1	3	<1	47	<0.5	--
			5	0.03	0.95	<2	<0.2	3	<1	<0.1	3	<1	31	0.8	--
			--	--	--	--	--	--	--	--	--	--	46	<0.5	--
		Bottom	6	0.04	0.61	<2	<0.2	2	<1	<0.1	2	<1	21	<0.5	--
			6	0.04	0.58	<2	<0.2	<1	<1	<0.1	2	<1	39	<0.5	--
			--	--	--	--	--	--	--	--	--	--	45	<0.5	--
	Mid-flood	Surface	5	0.04	1.13	2	<0.2	2	<1	<0.1	3	<1	14	<0.5	<1
			8	0.03	1.11	2	<0.2	1	<1	<0.1	3	<1	22	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	20	<0.5	<1
		Middle	5	0.04	0.84	2	<0.2	1	<1	<0.1	2	<1	18	<0.5	<1
			7	0.04	0.84	2	<0.2	1	<1	<0.1	2	<1	21	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	20	<0.5	<1
		Bottom	32	0.06	0.67	<2	<0.2	6	2	<0.1	2	<1	15	<0.5	<1
			40	0.06	0.66	<2	<0.2	2	2	<0.1	2	<1	26	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	18	<0.5	<1
2009/07/30	Mid-ebb	Surface	3	<0.01	1.01	<2	<0.2	<1	<1	<0.1	<1	<1	<4	1.2	<1
			4	<0.01	1	<2	<0.2	8	<1	<0.1	2	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	1.3	--
		Middle	3	0.01	0.65	<2	<0.2	5	1	<0.1	2	<1	8	0.8	<1
			3	0.01	0.68	<2	<0.2	2	<1	<0.1	1	<1	4	1	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Bottom	3	0.01	0.51	<2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			6	0.01	0.48	<2	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
	Mid-flood	Surface	3	<0.01	1.07	<2	<0.2	14	1	<0.1	3	<1	9	<0.5	<1
			3	<0.01	1.06	<2	<0.2	13	<1	<0.1	3	<1	9	0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Middle	7	0.04	0.68	<2	<0.2	4	1	<0.1	2	<1	8	0.6	<1
			7	0.05	0.7	<2	<0.2	4	1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Bottom	20	0.02	0.55	<2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			18	0.02	0.55	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/01	Mid-ebb	Surface	3	0.01	0.92	<2	<0.2	10	<1	<0.1	2	<1	6	0.9	<1
			3	0.01	0.94	<2	<0.2	12	<1	<0.1	3	<1	10	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.5	--
		Middle	4	0.01	0.62	<2	<0.2	7	<1	<0.1	2	<1	8	0.8	<1
			5	<0.01	0.61	<2	<0.2	6	<1	<0.1	2	<1	7	0.8	<1
			--	--	--	--	--	--	--	--	--	--	19	0.6	--
		Bottom	6	<0.01	0.46	<2	<0.2	<1	<1	<0.1	1	<1	<4	0.8	<1
			4	<0.01	0.45	<2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--

Annex D33 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	3	<0.01	1.1	2	<0.2	6	1	<0.1	9	<1	6	0.7	<1
			3	<0.01	1.11	2	<0.2	10	<1	<0.1	3	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	6	0.6	--
		Middle	6	<0.01	0.54	2	<0.2	1	1	<0.1	6	<1	9	0.8	<1
			7	<0.01	0.54	<2	<0.2	1	<1	<0.1	7	<1	9	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	7	<0.01	0.34	<2	<0.2	7	<1	<0.1	1	<1	<4	0.6	<1
			6	<0.01	0.32	<2	<0.2	9	<1	<0.1	1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	5	0.05	0.66	3	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			6	0.06	0.71	3	<0.2	2	<1	<0.1	2	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	14	1.5	--
		Middle	9	0.06	0.45	2	<0.2	6	<1	<0.1	2	<1	8	1	<1
			10	0.06	0.45	3	<0.2	4	<1	<0.1	2	<1	11	1.1	<1
			--	--	--	--	--	--	--	--	--	--	9	1	--
		Bottom	8	0.05	0.32	3	<0.2	<1	<1	<0.1	1	<1	<4	0.7	<1
			8	0.05	0.33	3	<0.2	<1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
2009/08/06	Mid-ebb	Surface	7	0.09	0.82	2	<0.2	5	<1	<0.1	2	<1	6	1.6	<1
			6	0.1	0.82	2	<0.2	5	<1	<0.1	3	<1	6	1.8	<1
			--	--	--	--	--	--	--	--	--	--	7	2	--
		Middle	9	0.08	0.6	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			10	0.08	0.6	<2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	14	0.08	0.5	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			13	0.08	0.52	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	8	0.09	0.97	<2	<0.2	4	<1	<0.1	2	<1	6	1.6	<1
			8	0.09	0.97	2	<0.2	3	<1	<0.1	2	<1	8	1.3	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Middle	10	0.08	0.76	<2	<0.2	2	<1	<0.1	2	<1	5	1.2	<1
			8	0.08	0.8	2	<0.2	8	<1	<0.1	3	<1	10	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	8	0.06	0.51	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			9	0.06	0.52	<2	<0.2	2	<1	<0.1	1	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--

Annex D33 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	6	0.05	0.88	4	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			6	0.05	0.87	3	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	9	0.09	0.65	4	<0.2	3	1	<0.1	2	<1	6	0.6	<1
			10	0.09	0.64	2	<0.2	3	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Bottom	21	0.1	0.62	3	<0.2	8	2	<0.1	2	<1	11	<0.5	<1
			19	0.1	0.63	4	<0.2	9	2	<0.1	2	<1	10	0.6	<1
			--	--	--	--	--	--	--	--	--	--	9	0.6	--
	Mid-flood	Surface	10	0.11	0.69	<2	<0.2	9	1	<0.1	2	<1	9	<0.5	<1
			11	0.1	0.67	3	<0.2	10	1	<0.1	2	<1	10	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	11	<0.5	--
		Middle	9	0.11	0.94	2	<0.2	26	5	<0.1	3	<1	26	<0.5	<1
			8	0.09	0.95	<2	<0.2	20	4	<0.1	3	<1	17	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	19	<0.5	--
		Bottom	6	0.05	1.13	3	<0.2	8	<1	<0.1	3	<1	6	<0.5	<1
			7	0.05	1.12	<2	<0.2	8	<1	<0.1	4	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
2009/08/12	Mid-ebb	Surface	4	0.1	0.96	2	<0.2	9	<1	<0.1	3	<1	9	<0.5	<1
			3	0.1	0.98	2	<0.2	8	<1	<0.1	2	<1	11	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	8	<0.5	--
		Middle	5	0.03	0.68	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			5	0.03	0.68	2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	14	<0.5	--
		Bottom	5	0.04	0.59	2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			5	0.04	0.6	2	<0.2	<1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.04	0.84	2	<0.2	5	<1	<0.1	2	<1	8	0.7	<1
			5	0.05	0.84	<2	<0.2	5	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	9	0.7	--
		Middle	8	0.03	0.65	2	<0.2	5	<1	<0.1	2	<1	6	<0.5	<1
			9	0.03	0.65	2	<0.2	2	<1	<0.1	2	<1	5	0.6	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	17	0.03	0.61	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			16	0.03	0.62	<2	<0.2	1	<1	<0.1	1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	4	0.06	0.95	3	<0.2	3	<1	<0.1	2	<1	<4	1.9	<1
			5	0.06	0.95	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.9	--
		Middle	6	0.05	0.49	2	<0.2	2	<1	<0.1	1	<1	<4	1	<1
			5	0.05	0.49	<2	<0.2	3	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	6	0.06	0.46	2	<0.2	9	<1	<0.1	1	<1	7	1.2	<1
			8	0.05	0.45	2	<0.2	13	<1	<0.1	2	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	9	1.5	--

Annex D33 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	4	0.07	0.97	2	<0.2	2	<1	<0.1	2	<1	6	1.6	<1
			5	0.08	0.99	2	<0.2	3	<1	<0.1	2	<1	4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	5	1.7	--
		Middle	9	0.06	0.63	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			8	0.06	0.62	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Bottom	22	0.05	0.51	2	<0.2	1	<1	<0.1	1	<1	<4	1.4	<1
			18	0.05	0.53	2	<0.2	1	<1	<0.1	1	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
2009/08/16	Mid-ebb	Surface	4	0.04	1.32	<2	<0.2	3	<1	<0.1	3	<1	8	1.5	<1
			5	0.05	1.35	2	<0.2	4	<1	<0.1	3	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	6	1.9	--
		Middle	6	0.04	0.63	2	<0.2	1	<1	<0.1	1	<1	5	1.2	<1
			8	0.04	0.62	<2	<0.2	1	<1	<0.1	1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Bottom	11	0.05	0.54	<2	<0.2	<1	<1	<0.1	<1	<1	<4	1.5	<1
			10	0.05	0.53	<2	<0.2	4	<1	<0.1	1	<1	6	1.4	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
	Mid-flood	Surface	6	<0.01	1.04	3	<0.2	3	1	<0.1	2	<1	5	1.8	<1
			6	<0.01	1.04	3	<0.2	3	<1	<0.1	<1	<1	6	1.8	<1
			--	--	--	--	--	--	--	--	--	--	7	1.9	--
		Middle	10	0.02	0.5	2	<0.2	2	<1	<0.1	1	<1	4	1.3	<1
			9	0.02	0.49	2	<0.2	3	1	<0.1	1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	13	0.03	0.37	3	<0.2	1	<1	<0.1	<1	<1	<4	<0.5	<1
			11	0.02	0.38	<2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
2009/08/18	Mid-ebb	Surface	7	0.02	0.77	2	<0.2	2	<1	<0.1	2	<1	4	1.5	<1
			5	0.02	0.77	2	<0.2	2	<1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	4	1.1	--
		Middle	10	0.03	0.49	2	<0.2	3	1	<0.1	2	<1	5	1.5	<1
			11	0.03	0.5	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Bottom	15	0.04	0.47	2	<0.2	1	<1	<0.1	2	<1	<4	1.8	<1
			13	0.03	0.48	2	<0.2	<1	<1	<0.1	2	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	5	1.3	--
	Mid-flood	Surface	10	0.01	0.67	2	<0.2	4	<1	<0.1	2	<1	5	1.4	<1
			9	<0.01	0.64	3	<0.2	4	<1	<0.1	2	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	8	1.5	--
		Middle	12	0.03	0.45	2	<0.2	10	1	<0.1	1	<1	8	1	<1
			14	0.03	0.45	2	<0.2	3	1	<0.1	2	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	0.9	--
		Bottom	16	0.03	0.4	2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			15	0.03	0.42	2	<0.2	<1	<1	<0.1	1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--

Annex D33 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	8	0.04	0.87	<2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			9	0.05	0.88	2	<0.2	<1	<1	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Middle	20	0.05	0.69	<2	<0.2	<1	<1	<0.1	2	<1	<4	1.1	<1
			15	0.05	0.69	2	<0.2	2	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	9	0.7	--
		Bottom	16	0.04	0.62	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			17	0.04	0.65	2	<0.2	<1	<1	<0.1	2	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	8	0.06	0.87	2	<0.2	4	<1	<0.1	2	<1	5	1.2	<1
			8	0.05	0.86	2	<0.2	4	<1	<0.1	2	<1	5	1	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Middle	12	0.05	0.75	2	<0.2	3	<1	<0.1	2	<1	<4	1.2	<1
			11	0.04	0.74	2	<0.2	2	1	<0.1	2	<1	4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	19	0.06	0.57	2	<0.2	1	<1	<0.1	2	<1	<4	0.7	<1
			18	0.05	0.56	2	<0.2	1	<1	<0.1	1	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
2009/08/23	Mid-ebb	Surface	7	0.02	0.83	2	<0.2	3	<1	<0.1	2	<1	5	1	<1
			6	0.02	0.82	2	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	6	0.05	0.63	2	<0.2	<1	<1	<0.1	2	<1	4	<0.5	<1
			5	0.05	0.63	2	<0.2	4	2	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	5	0.05	0.58	2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.05	0.57	2	<0.2	<1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	11	0.05	0.89	2	<0.2	3	<1	<0.1	2	<1	<4	1.1	<1
			10	0.05	0.89	2	<0.2	5	<1	<0.1	2	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Middle	14	0.05	0.76	2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			15	0.04	0.77	2	<0.2	1	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Bottom	25	0.05	0.75	3	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			25	0.04	0.75	2	<0.2	<1	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D34 - Baseline Water Quality Monitoring Results

Sampling Station : NM3

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	5	<0.01	1.3	<2	<0.2	2	<1	<0.1	3	<1	14	1.6	<1
			5	0.01	1.32	<2	<0.2	2	<1	<0.1	3	<1	36	1.4	<1
			--	--	--	--	--	--	--	--	--	--	17	1	<1
		Middle	8	0.06	0.59	<2	<0.2	2	<1	<0.1	2	<1	9	0.6	<1
			9	0.08	0.63	<2	<0.2	2	<1	<0.1	2	<1	6	0.8	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	<1
		Bottom	16	0.06	0.4	2	<0.2	8	2	<0.1	4	<1	36	1	<1
			18	0.07	0.43	<2	<0.2	6	1	<0.1	2	<1	16	0.7	<1
			--	--	--	--	--	--	--	--	--	--	32	0.9	<1
	Mid-flood	Surface	4	0.03	1.01	2	<0.2	4	1	<0.1	3	<1	20	<0.5	--
			4	0.03	1	<2	<0.2	3	1	<0.1	3	<1	45	<0.5	--
			--	--	--	--	--	--	--	--	--	--	49	0.6	--
		Middle	5	0.04	0.86	<2	<0.2	5	4	<0.1	4	<1	33	<0.5	--
			5	0.04	0.86	2	<0.2	2	1	<0.1	3	<1	27	<0.5	--
			--	--	--	--	--	--	--	--	--	--	30	<0.5	--
		Bottom	54	0.05	0.72	2	<0.2	4	3	<0.1	3	<1	45	<0.5	--
			59	0.05	0.73	2	<0.2	4	4	<0.1	3	<1	43	<0.5	--
			--	--	--	--	--	--	--	--	--	--	31	<0.5	--
2009/07/30	Mid-ebb	Surface	3	<0.01	1.01	<2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			3	<0.01	1	<2	<0.2	2	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	4	0.03	0.73	<2	<0.2	4	2	<0.1	2	<1	8	0.5	<1
			5	0.03	0.72	<2	<0.2	2	<1	<0.1	2	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--
		Bottom	10	0.02	0.38	<2	<0.2	2	<1	<0.1	1	<1	5	0.5	<1
			9	0.02	0.38	<2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
	Mid-flood	Surface	3	<0.01	1.08	<2	<0.2	2	<1	<0.1	3	<1	4	0.6	<1
			2	<0.01	1.08	<2	<0.2	2	<1	<0.1	3	<1	4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	4	0.5	--
		Middle	4	0.04	0.64	<2	<0.2	3	<1	<0.1	2	<1	16	0.7	<1
			5	0.04	0.64	<2	<0.2	4	1	<0.1	2	<1	14	0.8	<1
			--	--	--	--	--	--	--	--	--	--	17	0.7	--
		Bottom	18	0.05	0.58	<2	<0.2	3	2	<0.1	3	<1	18	0.7	1
			20	0.05	0.58	<2	<0.2	3	2	<0.1	2	<1	17	0.7	<1
			--	--	--	--	--	--	--	--	--	--	16	0.7	--
2009/08/01	Mid-ebb	Surface	2	<0.01	1.15	3	<0.2	4	1	<0.1	5	<1	6	0.8	<1
			3	<0.01	1.13	3	<0.2	5	<1	<0.1	3	<1	6	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	1	--
		Middle	5	0.02	0.46	2	<0.2	6	3	<0.1	2	<1	12	1.3	<1
			5	0.03	0.46	2	<0.2	7	6	<0.1	2	<1	24	1.6	<1
			--	--	--	--	--	--	--	--	--	--	27	1.5	--
		Bottom	10	0.01	0.3	<2	<0.2	4	<1	<0.1	1	<1	9	<0.5	<1
			9	0.01	0.29	2	<0.2	4	<1	<0.1	2	<1	17	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	16	<0.5	--

Annex D34 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	<0.01	1.22	3	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			5	<0.01	1.33	2	<0.2	3	<1	<0.1	3	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	8	0.02	0.44	<2	<0.2	4	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.02	0.44	3	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	14	0.02	0.33	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			13	0.02	0.34	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	6	0.1	0.69	<2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			7	0.08	0.65	<2	<0.2	3	1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	7	0.06	0.42	<2	<0.2	5	2	<0.1	2	<1	7	<0.5	<1
			7	0.06	0.43	<2	<0.2	4	1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
		Bottom	12	0.06	0.38	<2	<0.2	4	2	<0.1	2	<1	10	<0.5	<1
			12	0.06	0.38	<2	<0.2	4	2	<0.1	2	<1	9	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	9	0.6	--
2009/08/06	Mid-ebb	Surface	7	0.11	1.03	2	<0.2	2	<1	<0.1	3	<1	6	2.7	<1
			6	0.12	1.07	2	<0.2	2	<1	<0.1	2	<1	<4	3.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	2.8	--
		Middle	18	0.11	0.68	2	<0.2	4	1	<0.1	2	<1	5	2.4	<1
			17	0.1	0.64	3	<0.2	4	<1	<0.1	2	<1	<4	2.3	<1
			--	--	--	--	--	--	--	--	--	--	14	0.7	--
		Bottom	15	0.12	0.56	2	<0.2	2	1	<0.1	2	<1	5	2.7	<1
			17	0.11	0.53	2	<0.2	3	<1	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	4	0.7	--
	Mid-flood	Surface	8	0.11	1.01	2	<0.2	4	<1	<0.1	4	<1	7	1.9	<1
			9	0.09	1	3	<0.2	4	1	<0.1	3	<1	4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	1.9	--
		Middle	9	0.12	0.52	2	<0.2	3	1	<0.1	2	<1	5	1.5	<1
			7	0.11	0.51	<2	<0.2	4	1	<0.1	2	<1	5	1.6	1
			--	--	--	--	--	--	--	--	--	--	5	1.7	--
		Bottom	23	0.13	0.57	3	<0.2	6	2	<0.1	3	<1	29	1.7	2
			19	0.14	0.59	3	<0.2	6	14	<0.1	3	<1	33	1.7	4
			--	--	--	--	--	--	--	--	--	--	26	1.3	--

Annex D34 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	13	0.08	0.87	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			10	0.05	0.88	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	15	0.12	0.62	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			12	0.14	0.64	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	20	0.12	0.52	3	<0.2	3	1	<0.1	1	<1	4	<0.5	<1
			21	0.12	0.53	3	<0.2	3	1	<0.1	1	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	5	0.08	0.8	2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.1	0.81	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	9	0.6	--
		Middle	9	0.09	0.64	2	<0.2	4	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.1	0.64	3	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	10	0.09	0.58	3	<0.2	3	1	<0.1	2	<1	7	<0.5	1
			10	0.09	0.59	3	<0.2	4	2	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/12	Mid-ebb	Surface	7	0.12	1.02	<2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			6	0.12	1.02	<2	<0.2	1	<1	<0.1	2	<1	<4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	8	0.05	0.48	<2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			8	0.04	0.46	<2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	15	0.05	0.41	<2	<0.2	1	<1	<0.1	1	<1	<4	0.5	<1
			16	0.04	0.39	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.04	0.65	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			5	0.04	0.65	2	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	9	0.05	0.58	2	<0.2	4	<1	<0.1	2	<1	4	<0.5	<1
			6	0.05	0.57	2	<0.2	6	<1	<0.1	2	<1	6	<0.5	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	37	0.06	0.46	2	<0.2	3	2	<0.1	2	<1	7	<0.5	1
			43	0.05	0.45	3	<0.2	3	1	<0.1	2	<1	7	<0.5	1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
2009/08/14	Mid-ebb	Surface	3	0.1	1.04	2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			3	0.1	1.04	2	<0.2	1	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	7	0.05	0.54	2	<0.2	6	1	<0.1	2	<1	14	1.1	<1
			8	0.06	0.54	<2	<0.2	6	<1	<0.1	1	<1	5	1.4	<1
			--	--	--	--	--	--	--	--	--	--	4	1	--
		Bottom	12	0.05	0.38	<2	<0.2	2	<1	<0.1	1	<1	<4	1.3	<1
			13	0.04	0.37	<2	<0.2	1	<1	<0.1	1	<1	<4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--

Annex D34 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.08	0.91	2	<0.2	2	1	<0.1	2	<1	5	0.5	<1
			5	0.1	0.93	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Middle	7	0.09	0.84	2	<0.2	18	1	<0.1	3	<1	11	0.6	1
			6	0.1	0.84	2	<0.2	17	1	<0.1	2	<1	10	0.9	<1
			--	--	--	--	--	--	--	--	--	--	9	<0.5	--
		Bottom	24	0.07	0.61	<2	<0.2	4	2	<0.1	2	<1	8	<0.5	<1
			19	0.06	0.61	2	<0.2	4	1	<0.1	2	<1	6	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/16	Mid-ebb	Surface	5	0.04	0.9	3	<0.2	5	2	<0.1	2	<1	6	1.2	<1
			4	0.05	0.91	2	<0.2	4	2	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.6	--
		Middle	7	0.04	0.42	2	<0.2	2	<1	<0.1	<1	<1	6	1	<1
			8	0.04	0.42	<2	<0.2	2	1	<0.1	1	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	8	0.03	0.29	2	<0.2	2	1	<0.1	2	<1	<4	0.8	<1
			9	0.04	0.3	2	<0.2	2	1	<0.1	1	<1	6	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
	Mid-flood	Surface	5	0.03	1.15	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			6	0.03	1.16	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	9	0.9	--
		Middle	12	0.03	0.57	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			11	0.03	0.55	2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	15	0.04	0.4	2	<0.2	2	2	<0.1	2	<1	6	<0.5	<1
			13	0.04	0.4	2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
2009/08/18	Mid-ebb	Surface	6	0.04	0.95	2	<0.2	2	1	<0.1	2	<1	5	0.9	<1
			6	0.03	0.94	2	<0.2	2	1	<0.1	3	<1	6	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	10	0.04	0.46	2	<0.2	9	2	<0.1	2	<1	12	0.7	<1
			9	0.04	0.46	2	<0.2	3	2	<0.1	2	<1	8	0.5	1
			--	--	--	--	--	--	--	--	--	--	13	<0.5	--
		Bottom	11	0.05	0.36	<2	<0.2	6	2	<0.1	2	<1	8	<0.5	<1
			12	0.04	0.35	<2	<0.2	6	2	<0.1	3	<1	10	<0.5	2
			--	--	--	--	--	--	--	--	--	--	6	1	--
	Mid-flood	Surface	7	<0.01	0.91	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	<1
			7	<0.01	0.9	2	<0.2	2	1	<0.1	2	<1	5	1.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Middle	5	<0.01	0.69	2	<0.2	4	<1	<0.1	2	<1	5	1.1	<1
			5	0.01	0.7	2	<0.2	8	<1	<0.1	2	<1	6	1.7	<1
			--	--	--	--	--	--	--	--	--	--	5	1.4	--
		Bottom	52	0.04	0.48	2	<0.2	3	2	<0.1	2	<1	7	1.3	1
			56	0.03	0.47	2	<0.2	3	2	<0.1	2	<1	8	0.9	1
			--	--	--	--	--	--	--	--	--	--	9	1.1	--

Annex D34 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	15	0.06	0.92	2	<0.2	2	1	<0.1	2	<1	<4	1.2	<1
			13	0.08	0.95	2	<0.2	3	2	<0.1	3	<1	6	1.8	<1
			--	--	--	--	--	--	--	--	--	--	4	1.4	--
		Middle	25	0.12	0.61	2	<0.2	4	2	<0.1	2	<1	6	1.2	<1
			24	0.12	0.6	2	<0.2	3	1	<0.1	2	<1	4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Bottom	27	0.07	0.5	2	<0.2	2	2	<0.1	2	<1	4	1.3	<1
			26	0.08	0.51	2	<0.2	2	2	<0.1	2	<1	6	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
	Mid-flood	Surface	9	0.09	0.87	2	<0.2	2	1	<0.1	3	<1	8	1	<1
			8	0.1	0.89	2	<0.2	2	1	<0.1	3	<1	10	1.2	<1
			--	--	--	--	--	--	--	--	--	--	7	1.2	--
		Middle	9	0.08	0.67	2	<0.2	2	<1	<0.1	2	<1	8	0.8	<1
			8	0.09	0.71	2	<0.2	2	<1	<0.1	2	<1	8	1.5	<1
			--	--	--	--	--	--	--	--	--	--	16	1.7	--
		Bottom	27	0.07	0.55	2	<0.2	5	2	<0.1	3	<1	13	1.2	<1
			26	0.07	0.55	2	<0.2	5	2	<0.1	2	<1	14	0.9	1
			--	--	--	--	--	--	--	--	--	--	17	1.1	--
2009/08/23	Mid-ebb	Surface	12	0.05	0.92	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			11	0.05	0.93	2	<0.2	4	<1	<0.1	2	<1	6	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	22	0.07	0.59	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			20	0.08	0.61	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	19	0.07	0.5	2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			22	0.09	0.52	2	<0.2	1	<1	<0.1	1	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	13	0.07	0.88	3	<0.2	3	2	<0.1	3	<1	5	0.8	2
			14	0.09	0.91	2	<0.2	3	2	<0.1	4	<1	7	0.8	<1
			--	--	--	--	--	--	--	--	--	--	8	1.3	--
		Middle	16	0.11	0.68	2	<0.2	2	2	<0.1	3	<1	6	0.9	<1
			15	0.12	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	1.4	1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--
		Bottom	43	0.08	0.61	2	<0.2	4	3	<0.1	4	<1	15	0.7	3
			41	0.07	0.6	2	<0.2	4	3	<0.1	2	<1	13	1.2	2
			--	--	--	--	--	--	--	--	--	--	12	0.8	--

Annex D35 - Baseline Water Quality Monitoring Results

Sampling Station : NM5

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.33	<2	<0.2	2	2	<0.1	4	<1	21	1	--
			6	<0.01	1.33	<2	<0.2	3	3	<0.1	4	<1	50	1.3	--
			--	--	--	--	--	--	--	--	--	--	32	1.4	--
		Middle	8	0.02	0.68	<2	<0.2	4	4	<0.1	3	<1	27	1	--
			9	0.02	0.68	<2	<0.2	4	4	<0.1	3	<1	31	0.9	--
			--	--	--	--	--	--	--	--	--	--	42	1	--
		Bottom	23	0.11	0.57	<2	<0.2	3	1	<0.1	3	<1	26	0.6	--
			19	0.11	0.57	<2	<0.2	3	1	<0.1	3	<1	17	0.5	--
			--	--	--	--	--	--	--	--	--	--	24	0.6	--
	Mid-flood	Surface	7	0.03	1.49	<2	<0.2	3	1	<0.1	4	<1	32	0.6	<1
			6	0.03	1.5	<2	<0.2	2	<1	<0.1	4	<1	21	0.8	<1
			--	--	--	--	--	--	--	--	--	--	25	0.8	<1
		Middle	7	0.03	1.02	<2	<0.2	8	<1	<0.1	5	<1	39	2.2	<1
			5	0.03	1.01	<2	<0.2	7	<1	<0.1	4	<1	34	0.6	<1
			--	--	--	--	--	--	--	--	--	--	48	<0.5	<1
		Bottom	14	0.03	0.86	2	<0.2	8	1	<0.1	4	<1	44	1.5	<1
			9	0.03	0.87	2	<0.2	9	<1	<0.1	4	<1	31	1.2	<1
			--	--	--	--	--	--	--	--	--	--	16	1.7	<1
2009/07/30	Mid-ebb	Surface	6	<0.01	1.07	<2	<0.2	2	1	<0.1	3	<1	<4	0.7	<1
			3	<0.01	1.05	<2	<0.2	2	<1	<0.1	3	<1	4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	5	1	--
		Middle	7	0.04	0.53	<2	<0.2	2	<1	<0.1	2	<1	5	0.8	<1
			7	0.06	0.53	3	<0.2	2	<1	<0.1	1	<1	5	0.8	<1
			--	--	--	--	--	--	--	--	--	--	4	0.8	--
		Bottom	8	0.06	0.43	<2	<0.2	10	1	<0.1	1	<1	<4	0.8	<1
			7	0.06	0.43	<2	<0.2	2	<1	<0.1	1	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	4	0.9	--
	Mid-flood	Surface	4	0.02	1.29	2	<0.2	2	<1	<0.1	5	<1	16	0.8	<1
			6	0.02	1.35	2	<0.2	3	1	<0.1	4	<1	18	0.7	<1
			--	--	--	--	--	--	--	--	--	--	4	0.8	--
		Middle	5	0.05	0.64	2	<0.2	2	<1	<0.1	3	<1	6	0.7	<1
			4	0.05	0.72	<2	<0.2	2	<1	<0.1	2	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	0.7	--
		Bottom	9	0.1	0.45	<2	<0.2	7	2	<0.1	7	<1	12	<0.5	<1
			15	0.1	0.45	<2	<0.2	4	<1	<0.1	3	<1	13	0.9	<1
			--	--	--	--	--	--	--	--	--	--	11	1	--
2009/08/01	Mid-ebb	Surface	5	0.06	1.53	2	<0.2	3	<1	<0.1	4	<1	4	0.6	<1
			4	0.06	1.52	3	<0.2	3	<1	<0.1	3	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.6	--
		Middle	6	0.03	0.52	<2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.02	0.51	<2	<0.2	3	<1	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	10	0.08	0.43	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			8	0.07	0.42	<2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--

Annex D35 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	4	0.01	1.32	2	<0.2	3	<1	<0.1	3	<1	<4	1.1	<1
			5	0.01	1.32	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Middle	8	0.02	0.51	2	<0.2	3	<1	<0.1	3	<1	<4	<0.5	<1
			7	0.03	0.53	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	9	0.06	0.41	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			9	0.06	0.41	2	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/04	Mid-ebb	Surface	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Middle	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
		Bottom	--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
			--	--	--	--	--	--	--	--	--	--	--	--	--
	Mid-flood	Surface	5	0.04	0.76	2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			4	0.05	0.77	2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	8	0.05	0.38	2	<0.2	2	3	<0.1	2	<1	6	<0.5	<1
			8	0.05	0.38	2	<0.2	2	2	<0.1	1	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	32	0.07	0.35	2	<0.2	3	2	<0.1	2	<1	6	<0.5	1
			30	0.07	0.35	2	<0.2	4	2	<0.1	2	<1	6	<0.5	1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/06	Mid-ebb	Surface	7	0.18	1.14	3	<0.2	2	<1	<0.1	3	<1	<4	1.7	<1
			7	0.18	1.19	3	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	15	0.13	1.06	2	<0.2	3	1	<0.1	3	<1	5	1.5	<1
			17	0.12	1.09	3	<0.2	4	2	<0.1	4	<1	7	0.9	<1
			--	--	--	--	--	--	--	--	--	--	5	0.7	--
		Bottom	230	0.14	0.67	4	<0.2	12	9	<0.1	6	<1	23	2.4	4
			244	0.12	0.83	5	<0.2	15	7	<0.1	8	<1	31	2.4	4
			--	--	--	--	--	--	--	--	--	--	24	2.2	--
	Mid-flood	Surface	9	<0.01	1.18	3	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			11	0.01	1.21	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	10	0.13	0.68	2	<0.2	4	11	<0.1	3	<1	6	<0.5	<1
			9	0.11	0.66	2	<0.2	4	10	<0.1	2	<1	7	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	28	0.13	0.56	2	<0.2	3	2	<0.1	5	<1	5	<0.5	1
			26	0.15	0.58	2	<0.2	2	1	<0.1	4	<1	5	<0.5	1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--

Annex D35 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	5	<0.01	1.21	3	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			5	<0.01	1.23	3	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	7	0.07	0.81	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.06	0.8	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	31	0.11	0.6	4	<0.2	4	2	<0.1	2	<1	6	<0.5	1
			33	0.11	0.61	2	<0.2	5	2	<0.1	2	<1	6	<0.5	1
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
	Mid-flood	Surface	6	0.01	1.29	2	<0.2	3	<1	<0.1	4	<1	5	0.6	<1
			6	0.01	1.31	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	10	0.1	0.78	2	<0.2	3	<1	<0.1	2	<1	<4	1	<1
			8	0.09	0.77	2	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
		Bottom	48	0.11	0.52	2	<0.2	4	2	<0.1	2	<1	7	<0.5	2
			40	0.12	0.53	2	<0.2	5	2	<0.1	2	<1	7	<0.5	2
			--	--	--	--	--	--	--	--	--	--	7	<0.5	--
2009/08/12	Mid-ebb	Surface	5	0.11	1.45	<2	<0.2	2	<1	<0.1	4	<1	4	0.6	<1
			6	0.13	1.5	<2	<0.2	2	<1	<0.1	4	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	10	0.03	0.62	<2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			9	0.03	0.63	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	24	0.07	0.48	<2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			22	0.06	0.47	<2	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
	Mid-flood	Surface	5	0.22	1.47	3	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			5	0.22	1.48	2	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	8	0.08	0.65	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			9	0.08	0.6	2	<0.2	5	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	0.08	0.46	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			21	0.08	0.45	3	<0.2	3	1	<0.1	1	<1	4	0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--
2009/08/14	Mid-ebb	Surface	5	0.13	1.14	2	<0.2	2	<1	<0.1	3	<1	4	0.5	<1
			6	0.13	1.15	3	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Middle	10	0.06	0.58	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			10	0.05	0.57	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Bottom	12	0.15	0.54	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			10	0.14	0.54	2	<0.2	16	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--

Annex D35 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	7	0.27	1.49	3	<0.2	2	<1	<0.1	4	<1	<4	0.8	<1
			7	0.27	1.49	2	<0.2	2	<1	<0.1	5	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	12	0.07	0.57	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			13	0.07	0.58	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.5	--
		Bottom	15	0.06	0.47	<2	<0.2	3	<1	<0.1	<1	<1	5	0.7	<1
			15	0.06	0.46	2	<0.2	6	1	<0.1	4	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
2009/08/16	Mid-ebb	Surface	5	<0.01	1.27	3	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			6	<0.01	1.28	3	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	6	0.03	0.57	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.03	0.57	<2	<0.2	<1	<1	<0.1	6	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	10	0.07	0.4	2	<0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			11	0.05	0.41	<2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	5	0.06	1.21	2	<0.2	3	<1	<0.1	4	<1	<4	1.4	<1
			6	0.07	1.22	4	<0.2	8	1	<0.1	3	<1	<4	1.4	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.4	--
		Middle	14	0.03	0.44	<2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			13	0.03	0.45	<2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	13	0.04	0.37	3	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			13	0.05	0.37	5	<0.2	2	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/18	Mid-ebb	Surface	6	0.01	1.22	2	<0.2	4	1	<0.1	3	<1	5	1.2	<1
			4	<0.01	1.23	2	<0.2	2	<1	<0.1	3	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Middle	8	0.03	0.64	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	<1
			9	0.04	0.63	2	<0.2	3	2	<0.1	2	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	24	0.05	0.47	2	<0.2	2	1	<0.1	2	<1	9	1	<1
			26	0.06	0.47	2	<0.2	2	1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
	Mid-flood	Surface	12	0.09	1.41	2	<0.2	2	<1	<0.1	4	<1	<4	1.4	<1
			12	0.1	1.42	2	<0.2	2	<1	<0.1	4	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Middle	15	0.03	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	1.7	<1
			16	0.02	0.7	4	<0.2	6	<1	<0.1	1	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.5	--
		Bottom	157	0.09	0.48	2	<0.2	5	<1	<0.1	1	<1	17	1.7	3
			188	0.07	0.46	3	<0.2	3	1	<0.1	1	<1	17	1.6	3
			--	--	--	--	--	--	--	--	--	--	4	2.1	--

Annex D35 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	8	0.03	1.06	2	<0.2	2	<1	<0.1	3	<1	5	1.3	<1
			9	0.02	1.06	2	<0.2	2	<1	<0.1	2	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	6	1.1	--
		Middle	10	0.07	0.85	2	<0.2	3	<1	<0.1	2	<1	4	1	<1
			9	0.07	0.85	2	<0.2	2	<1	<0.1	2	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	9	1.3	--
		Bottom	36	0.07	0.61	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			38	0.07	0.61	2	<0.2	1	<1	<0.1	2	<1	6	1.6	<1
			--	--	--	--	--	--	--	--	--	--	6	1.2	--
	Mid-flood	Surface	8	0.04	1.25	2	<0.2	2	<1	<0.1	3	<1	10	1.1	<1
			7	0.04	1.24	2	<0.2	2	<1	<0.1	4	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	4	1.2	--
		Middle	14	0.08	0.7	2	<0.2	4	1	<0.1	2	<1	6	1.2	<1
			14	0.09	0.71	2	<0.2	2	<1	<0.1	2	<1	6	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	127	0.06	0.54	3	<0.2	7	6	<0.1	3	<1	21	2.1	3
			136	0.07	0.54	3	<0.2	8	6	<0.1	4	<1	19	2.1	3
			--	--	--	--	--	--	--	--	--	--	16	2	--
2009/08/23	Mid-ebb	Surface	12	0.04	1.15	3	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			10	0.04	1.16	2	<0.2	2	<1	<0.1	3	<1	7	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	12	0.06	0.89	2	<0.2	4	<1	<0.1	2	<1	6	<0.5	<1
			10	0.04	0.86	3	<0.2	3	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	25	0.07	0.7	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			29	0.06	0.69	2	<0.2	2	<1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	9	0.07	1.29	3	<0.2	2	<1	<0.1	7	<1	<4	0.6	<1
			9	0.05	1.27	3	<0.2	2	<1	<0.1	4	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	22	0.06	0.69	2	<0.2	2	<1	<0.1	2	<1	4	0.7	<1
			20	0.08	0.68	2	<0.2	2	<1	<0.1	2	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	4	1.5	--
		Bottom	114	0.07	0.57	3	<0.2	5	4	<0.1	3	<1	12	<0.5	2
			118	0.07	0.58	3	<0.2	5	4	<0.1	3	<1	11	<0.5	3
			--	--	--	--	--	--	--	--	--	--	16	0.6	--

Annex D36 - Baseline Water Quality Monitoring Results

Sampling Station : NM6

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/07/28	Mid-ebb	Surface	4	<0.01	1.19	<2	<0.2	3	<1	<0.1	3	<1	47	1.2	<1
			3	<0.01	1.19	<2	<0.2	3	<1	<0.1	3	<1	48	1.1	<1
			--	--	--	--	--	--	--	--	--	--	46	1.3	<1
		Middle	6	<0.01	0.94	<2	<0.2	2	<1	<0.1	3	<1	20	0.9	<1
			8	<0.01	0.93	2	<0.2	2	<1	<0.1	2	<1	33	0.6	<1
			--	--	--	--	--	--	--	--	--	--	36	0.8	<1
		Bottom	10	<0.01	0.53	<2	<0.2	2	2	<0.1	2	<1	44	0.7	<1
			10	<0.01	0.55	2	<0.2	2	<1	<0.1	2	<1	52	0.6	<1
			--	--	--	--	--	--	--	--	--	--	30	0.7	<1
	Mid-flood	Surface	6	<0.01	1.19	2	<0.2	2	<1	<0.1	3	<1	30	1.1	<1
			5	<0.01	1.2	2	<0.2	2	<1	<0.1	3	<1	27	1.1	<1
			--	--	--	--	--	--	--	--	--	--	18	1	<1
		Middle	10	0.01	0.95	<2	<0.2	5	<1	<0.1	3	<1	26	1.2	<1
			9	<0.01	0.93	<2	<0.2	5	<1	<0.1	4	<1	26	1	<1
			--	--	--	--	--	--	--	--	--	--	47	1.1	<1
		Bottom	21	0.02	0.47	2	<0.2	10	2	<0.1	4	<1	29	1.1	<1
			20	0.01	0.46	2	<0.2	10	2	<0.1	4	<1	22	1	2
			--	--	--	--	--	--	--	--	--	--	20	0.9	2
2009/07/30	Mid-ebb	Surface	4	<0.01	1.25	2	<0.2	2	<1	<0.1	3	<1	<4	0.8	<1
			3	<0.01	1.26	2	<0.2	2	<1	<0.1	3	<1	<4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Middle	5	0.04	1.12	<2	<0.2	4	1	<0.1	3	<1	6	0.8	<1
			2	0.04	1.11	2	<0.2	4	2	<0.1	3	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	7	1	--
		Bottom	14	0.02	0.85	<2	<0.2	4	2	<0.1	2	<1	9	0.8	<1
			12	0.02	0.83	<2	<0.2	3	3	<0.1	2	<1	8	0.8	<1
			--	--	--	--	--	--	--	--	--	--	11	0.7	--
	Mid-flood	Surface	4	<0.01	1.24	2	<0.2	2	<1	<0.1	4	<1	<4	0.7	<1
			4	<0.01	1.31	2	0.3	13	4	<0.1	6	<1	19	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	12	0.8	--
		Middle	3	0.03	1.21	2	<0.2	3	<1	<0.1	4	<1	8	0.7	<1
			4	0.03	1.21	<2	<0.2	4	<1	<0.1	4	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	8	0.5	--
		Bottom	7	0.02	0.72	2	<0.2	2	<1	<0.1	2	<1	5	0.6	<1
			8	0.02	0.7	<2	<0.2	3	1	<0.1	2	<1	8	0.6	<1
			--	--	--	--	--	--	--	--	--	--	10	<0.5	--
2009/08/01	Mid-ebb	Surface	3	<0.01	1.48	2	<0.2	2	<1	<0.1	3	<1	<4	1.5	<1
			4	<0.01	1.51	2	<0.2	2	<1	<0.1	4	<1	<4	1.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.8	--
		Middle	5	0.02	0.99	<2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			4	0.01	1.08	<2	<0.2	3	1	<0.1	3	<1	4	1.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	3	0.02	0.56	<2	<0.2	3	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.02	0.56	<2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	4	<0.5	--

Annex D36 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/01	Mid-flood	Surface	7	0.02	1.29	3	<0.2	4	<1	<0.1	3	<1	<4	0.9	<1
			6	0.01	1.29	2	<0.2	4	<1	<0.1	4	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	6	1.3	--
		Middle	9	0.02	0.72	3	<0.2	6	2	<0.1	2	<1	5	1.2	<1
			10	0.02	0.72	3	<0.2	4	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	0.8	--
		Bottom	15	0.03	0.65	3	<0.2	4	2	<0.1	3	<1	8	<0.5	<1
			17	0.04	0.64	3	<0.2	4	2	<0.1	2	<1	9	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
2009/08/04	Mid-ebb	Surface	4	0.02	0.59	2	<0.2	2	1	<0.1	2	<1	<4	0.9	<1
			3	0.01	0.57	2	<0.2	2	1	<0.1	2	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	4	0.02	0.46	2	<0.2	1	<1	<0.1	2	<1	<4	1.2	<1
			5	0.02	0.46	3	<0.2	2	<1	<0.1	2	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	10	0.02	0.29	2	<0.2	1	<1	<0.1	1	<1	<4	1	<1
			8	0.02	0.29	3	<0.2	2	<1	<0.1	1	<1	<4	1	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
	Mid-flood	Surface	6	0.04	0.72	3	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			8	0.04	0.72	3	<0.2	<1	<1	<0.1	<1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	5	0.04	0.6	2	<0.2	4	1	<0.1	2	<1	<4	<0.5	<1
			6	0.04	0.6	3	<0.2	<1	<1	<0.1	<1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	11	<0.5	--
		Bottom	36	0.02	0.35	3	<0.2	2	4	<0.1	2	<1	10	<0.5	1
			44	0.03	0.36	3	<0.2	1	2	<0.1	2	<1	8	<0.5	1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/06	Mid-ebb	Surface	7	0.05	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	1.3	<1
			6	0.04	0.84	2	<0.2	2	<1	<0.1	2	<1	7	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	8	0.06	0.87	3	<0.2	2	1	<0.1	2	<1	6	1.1	<1
			9	0.05	0.85	3	<0.2	3	3	<0.1	3	<1	7	1	<1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--
		Bottom	9	0.05	0.83	3	<0.2	2	<1	<0.1	2	<1	4	1.2	<1
			8	0.05	0.94	2	<0.2	3	<1	<0.1	3	<1	4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
	Mid-flood	Surface	8	0.08	0.92	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			7	0.07	0.92	3	<0.2	2	<1	<0.1	3	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Middle	9	0.07	0.77	2	<0.2	3	1	<0.1	2	<1	5	0.6	<1
			10	0.08	0.79	3	<0.2	3	<1	<0.1	7	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	18	0.06	0.67	3	<0.2	6	2	<0.1	2	<1	6	0.6	<1
			20	0.05	0.67	3	<0.2	4	1	<0.1	2	<1	6	0.5	<1
			--	--	--	--	--	--	--	--	--	--	7	0.9	--

Annex D36 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/08	Mid-ebb	Surface	4	<0.01	1.11	2	<0.2	5	2	<0.1	2	<1	6	0.7	<1
			5	<0.01	1.12	2	<0.2	5	2	<0.1	3	<1	5	0.9	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Middle	14	0.02	0.32	2	<0.2	3	1	<0.1	1	<1	<4	<0.5	<1
			12	0.02	0.31	2	<0.2	3	1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	<0.5	--
		Bottom	21	0.03	0.59	2	<0.2	6	3	<0.1	2	<1	8	<0.5	<1
			19	0.03	0.6	<2	<0.2	6	2	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	11	<0.5	--
	Mid-flood	Surface	7	0.02	1.54	2	<0.2	2	<1	<0.1	2	<1	<4	0.6	<1
			6	0.03	1.47	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	5	0.04	1.12	2	<0.2	2	<1	<0.1	2	<1	<4	0.9	<1
			5	0.03	1.17	2	<0.2	3	1	<0.1	2	<1	8	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	14	0.02	0.45	2	<0.2	2	<1	<0.1	1	<1	<4	<0.5	<1
			16	0.02	0.45	2	<0.2	1	<1	<0.1	1	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/12	Mid-ebb	Surface	5	0.03	1.29	3	<0.2	2	1	<0.1	3	<1	<4	<0.5	<1
			5	0.03	1.28	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	7	0.06	0.95	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			6	0.06	0.96	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	13	0.01	0.53	2	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			12	<0.01	0.48	2	<0.2	1	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.12	1.07	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			6	0.11	1.07	2	<0.2	2	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	7	0.06	0.85	<2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			7	0.06	0.86	2	<0.2	2	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Bottom	23	<0.01	0.42	2	<0.2	2	<1	<0.1	1	<1	4	<0.5	<1
			23	0.01	0.44	3	<0.2	2	1	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
2009/08/14	Mid-ebb	Surface	4	0.18	1.45	3	<0.2	2	<1	<0.1	4	<1	4	0.9	<1
			3	0.19	1.48	3	<0.2	2	<1	<0.1	4	<1	4	0.7	<1
			--	--	--	--	--	--	--	--	--	--	13	0.8	--
		Middle	9	0.05	0.75	2	<0.2	4	<1	<0.1	2	<1	5	0.6	<1
			10	0.06	0.76	2	<0.2	4	<1	<0.1	3	<1	4	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.1	--
		Bottom	13	0.03	0.55	3	<0.2	2	1	<0.1	2	<1	5	1.2	<1
			11	0.02	0.53	3	<0.2	2	<1	<0.1	2	<1	13	0.6	<1
			--	--	--	--	--	--	--	--	--	--	5	0.6	--

Annex D36 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/14	Mid-flood	Surface	5	0.19	1.51	3	<0.2	2	<1	<0.1	5	<1	<4	0.7	<1
			6	0.18	1.51	2	<0.2	2	<1	<0.1	5	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.6	--
		Middle	6	0.11	1.15	2	<0.2	2	<1	<0.1	3	<1	<4	1	<1
			6	0.13	1.19	2	<0.2	6	<1	<0.1	4	<1	6	1.6	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
		Bottom	30	<0.01	0.54	3	<0.2	2	1	<0.1	3	<1	5	0.7	1
			37	0.01	0.54	2	<0.2	2	2	<0.1	2	<1	6	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	0.7	--
2009/08/16	Mid-ebb	Surface	3	<0.01	1.14	2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			4	<0.01	1.14	3	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Middle	4	0.04	1.02	<2	<0.2	1	<1	<0.1	3	<1	<4	<0.5	<1
			4	0.04	1.02	3	<0.2	1	<1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.7	--
		Bottom	37	<0.01	0.45	3	<0.2	2	2	<0.1	2	<1	<4	<0.5	<1
			40	<0.01	0.45	2	<0.2	2	2	<0.1	2	<1	5	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	6	0.06	1.16	2	<0.2	3	<1	<0.1	3	<1	4	1.3	<1
			8	0.08	1.18	3	<0.2	3	1	<0.1	4	<1	<4	1.6	<1
			--	--	--	--	--	--	--	--	--	--	5	1.1	--
		Middle	12	0.02	0.54	3	<0.2	4	5	<0.1	2	<1	7	<0.5	<1
			12	0.02	0.55	2	<0.2	2	1	<0.1	2	<1	5	0.7	<1
			--	--	--	--	--	--	--	--	--	--	6	<0.5	--
		Bottom	14	0.02	0.51	3	<0.2	2	<1	<0.1	2	<1	4	<0.5	<1
			16	0.03	0.52	4	<0.2	3	1	<0.1	2	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	6	0.8	--
2009/08/18	Mid-ebb	Surface	5	0.01	1.01	2	<0.2	2	<1	<0.1	3	<1	5	1.3	<1
			5	0.01	1.04	2	<0.2	2	<1	<0.1	3	<1	<4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	6	1.9	--
		Middle	9	0.02	0.8	2	<0.2	5	<1	<0.1	2	<1	<4	1.3	<1
			8	0.02	0.79	2	<0.2	4	<1	<0.1	2	<1	7	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.7	--
		Bottom	50	0.02	0.68	2	<0.2	3	3	<0.1	2	<1	8	1.3	1
			50	0.02	0.68	3	<0.2	2	2	<0.1	2	<1	6	1.7	1
			--	--	--	--	--	--	--	--	--	--	7	1.3	--
	Mid-flood	Surface	11	0.07	1.51	2	<0.2	2	<1	<0.1	3	<1	<4	1.2	<1
			12	0.07	1.52	2	<0.2	2	<1	<0.1	3	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Middle	17	0.09	1.4	2	<0.2	2	<1	<0.1	2	<1	<4	1.8	<1
			18	0.09	1.45	2	<0.2	2	<1	<0.1	2	<1	4	1.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.3	--
		Bottom	24	0.09	1.25	2	<0.2	2	<1	<0.1	2	<1	4	1.4	<1
			23	0.09	1.27	3	<0.2	2	1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--

Annex D36 - Baseline Water Quality Monitoring Results

Sampling Date	Tide	Depth	Suspended Solids (mg/L)	Ammonia as N (mg/L)	Inorganic Nitrogen as N (mg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Silver (µg/L)	Zinc (µg/L)	Biochemical Oxygen Demand (mg/L)	Total Chromium (µg/L)
2009/08/21	Mid-ebb	Surface	9	0.03	0.81	2	<0.2	2	<1	<0.1	2	<1	5	1.4	<1
			10	0.02	0.8	2	<0.2	2	<1	<0.1	2	<1	5	1.3	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Middle	16	0.01	0.58	2	<0.2	2	<1	<0.1	1	<1	4	1.4	<1
			16	0.01	0.58	<2	<0.2	2	<1	<0.1	2	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
		Bottom	31	0.02	0.44	2	<0.2	1	<1	<0.1	1	<1	<4	1.1	<1
			32	0.02	0.45	2	<0.2	1	<1	<0.1	1	<1	<4	1.1	<1
			--	--	--	--	--	--	--	--	--	--	<4	1	--
	Mid-flood	Surface	7	0.05	1.16	2	<0.2	1	<1	<0.1	3	<1	5	1	<1
			7	0.07	1.19	2	<0.2	2	<1	<0.1	3	<1	5	1.1	<1
			--	--	--	--	--	--	--	--	--	--	14	1.2	--
		Middle	13	0.05	0.96	2	<0.2	2	<1	<0.1	2	<1	<4	1.2	<1
			12	0.05	0.96	2	<0.2	2	<1	<0.1	2	<1	7	1.2	<1
			--	--	--	--	--	--	--	--	--	--	<4	1.2	--
		Bottom	20	0.03	0.8	2	<0.2	2	<1	<0.1	2	<1	6	1.1	<1
			22	0.04	0.81	2	<0.2	1	<1	<0.1	2	<1	<4	1.3	<1
			--	--	--	--	--	--	--	--	--	--	8	1	--
2009/08/23	Mid-ebb	Surface	7	0.02	0.98	3	<0.2	3	<1	<0.1	3	<1	4	<0.5	<1
			8	0.02	0.97	2	<0.2	3	<1	<0.1	3	<1	<4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
		Middle	15	0.02	0.48	<2	<0.2	2	<1	<0.1	1	<1	<4	0.6	<1
			14	0.02	0.48	2	<0.2	2	<1	<0.1	1	<1	4	<0.5	<1
			--	--	--	--	--	--	--	--	--	--	5	1.2	--
		Bottom	32	0.02	0.4	2	0.2	<1	<1	<0.1	1	<1	<4	<0.5	<1
			33	0.03	0.41	2	<0.2	<1	<1	<0.1	1	<1	<4	0.6	<1
			--	--	--	--	--	--	--	--	--	--	<4	<0.5	--
	Mid-flood	Surface	8	0.03	1.19	2	<0.2	2	<1	<0.1	3	<1	<4	0.9	<1
			7	0.03	1.19	2	<0.2	<1	<1	<0.1	3	<1	<4	0.8	<1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Middle	48	0.04	0.68	2	<0.2	2	<1	<0.1	2	<1	<4	0.8	1
			49	0.04	0.67	2	<0.2	1	<1	<0.1	2	<1	<4	1.4	1
			--	--	--	--	--	--	--	--	--	--	<4	0.8	--
		Bottom	71	0.03	0.62	2	<0.2	1	<1	<0.1	1	<1	7	1	2
			71	0.04	0.62	3	<0.2	1	<1	<0.1	1	<1	<4	1.1	2
			--	--	--	--	--	--	--	--	--	--	<4	0.9	--