IMPACT MONITORING REPORT





Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit

Tenth Weekly Impact Monitoring Report - 28th January to 3rd February 2008

11th February 2008

Environmental Resources Management 21/F Lincoln House Taikoo Place 979 King's Road Island East Hong Kong Telephone 2271 3000 Facsimile 2723 5660

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CLP Power

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit: *Tenth Weekly Impact Monitoring Report – 28th January 2008 – 3rd February 2008*

February 2008

Reference 0072833

For and on behalf of								
ERM-Hong Kong, Limited								
Approved by: Dr Robin Kennish								
Signed: _	Rolien Kennet							
Position:	Director							
Date:	11 February 2008							

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EXECUTIVE SUMMARY

EXECUTIV	/E SUMMARY	Ι
1	INTRODUCTION	1
1.1	PURPOSE OF THE REPORT	1
1.2	STRUCTURE OF THE REPORT	1
2	PROJECT INFORMATION	3
2.1	BACKGROUND	3
2.2	SITE DESCRIPTION	4
2.3	MARINE CONSTRUCTION WORKS UNDERTAKEN DURING	
	R eporting Week	4
2.4	PROJECT ORGANISATION	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENT	5
3.1	MONITORING LOCATIONS	5
3.2	MONITORING PARAMETERS AND FREQUENCY	6
3.3	MONITORING EQUIPMENT AND METHODOLOGY	7
4	IMPLEMENTATION STATUS OF ENVIRONMENTAL	
	MITIGATION MEASURES	11
4.1	Recommended Mitigation Measures	11
4.2	IMPLEMENTATION STATUS OF MITIGATION MEASURES	11
5	MONITORING RESULTS	12
5.1	IMPACT MONITORING RESULTS	12
6	ENVIRONMENTAL NON-CONFORMANCES	13
6.1	SUMMARY OF ENVIRONMENTAL EXCEEDANCE	13
6.2	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	13
6.3	SUMMARY OF ENVIRONMENTAL COMPLAINT	13
6.4	SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION	13
7	FUTURE KEY ISSUES	14
7.1	Key Issues For The Coming Month	14
7.2	MONITORING SCHEDULE FOR THE COMING MONTHS	14
8	REVIEW OF THE EM&A AND IMPACT ASSESSEMENT	
	PREDICTIONS	15
9	CONCLUSIONS	17

LIST OF TABLES

Table 2.1	Summary of Environmental Licensing, Notification, Permit and
	Reporting Status
Table 3.1	Co-ordinates of Water Quality Monitoring Stations (HK Grid)
Table 3.2	Action and Limit Levels for Water Quality for the Airport
	Landing Site
Table 3.3	Event and Action Plan for Water Quality
Table 8.1	Predicted Elevations of Suspended Solids Concentration due to
	Dredging at Shore Ends following the Deployment of Silt
	Curtains
Table 8.2	Depth-averaged Suspended Sediment (SS) Elevations (mg L-1)
	due to Dredging at Impact Station during the Reporting Week

LIST OF ANNEXES

Annex A	Works Programme of the period between 28 January 2008 and
	17 February 2008

- Annex B Project Organisation Chart (with Contact Details)
- Annex C Tentative Monitoring Schedule
- Annex D QA/QC Results of Laboratory Testing for Suspended Solids
- Annex E Impact Water Quality Monitoring Results

EXECUTIVE SUMMARY

The construction works for the Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit (Application No. *DIR-143/2006*) commenced on 10 November 2007. This is the 10th weekly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 28 January to 3 February 2008 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during the Reporting Period

During the reporting week, at the Airport landing site, dredging operations were undertaken during the reporting period from 28 January to 3 February 2008.

Water Quality

Three monitoring events were scheduled between 28 January and 3 February 2008 at Airport landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 28 January, 30 January and 2 February 2008

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels, and all measured Turbidity and Suspended Solids (SS) levels were below AL Levels during the reporting week.

Environmental Non-conformance

No exceedance of Action and Limit Levels was recorded during the reporting week.

No non-compliance event was recorded during the reporting week.

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

Future Key Issues

During the following week (ie 4 February to 10 February 2008), dredging operations will be carried out at the Airport landing site.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by CLP Power (CLP) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit (thereinafter called the ('Project')).

1.1 PURPOSE OF THE REPORT

This is the 10th weekly EM&A report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 28 January to 3 February 2008.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

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

Section 2 : Project Information

Summarises background and scope of the project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting period.

Section 3 : Environmental Monitoring Requirement

Summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event / Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements.

- Section 4 : Implementation Status on Environmental Mitigation Measures Summarises the implementation of environmental protection measures during the reporting period.
- Section 5 : Monitoring Results Summarises the monitoring results obtained in the reporting period.
- Section 6 : Environmental Non-conformance Summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

- Section 7 : Future Key Issues Summarises the monitoring schedule for the next week.
- Section 8 : **Review of EM&A Data and Impact Assessment Predictions** Compares and contrasts the EM&A data in the reporting period with the impact assessment predictions and annotates with explanations of discrepancies.
- Section 9 : **Conclusions** Presents the key findings of the impact monitoring results.

2.1 BACKGROUND

CLP will install a 132 kV submarine cable circuit to connect Castle Peak Power Station and Hong Kong International Airport in order to meet the electricity load growth at the Airport.

The proposed cable route will start from Tuen Mun and extend southward crossing the Urmston Road to the Airport. The cable landing sites will be located to the west of Butterfly Beach, Tuen Mun and at the northern part of the platform of the Airport (see *Figure 2.1*).

In September 2006, a Project Profile (PP) for the proposed 132kV Cable Route for Airport "A" to Castle Peak CCTS (thereinafter called the 'Project') was prepared and submitted to the Environmental Protection Department (EPD) under the *Environmental Impact Assessment Ordinance (EIAO)* for application for Permission to apply directly for Environmental Permit (EP) (Application No. *DIR-143/2006*).

An Environmental Permit (*EP-267/2007*) for the works was granted on 29 March 2007. Under the requirements of *Condition 2.12* of the EP, an EM&A programme as set out in the *Environmental Monitoring and Audit Manual* (*EM&A Manual*) is required to be implemented. In accordance with the *EM&A Manual*, impact monitoring of water quality is required for the Project.

Baseline Monitoring was conducted at Tuen Mun landing site between 18 October and 28 October 2007. Through communications with EPD, a silt curtain at the water intake of the Airport should already be in place during the baseline monitoring. EPD hence advised the baseline monitoring (thereinafter called *Baseline Environmental Monitoring Part B*) for the Airport East section of works should be postponed until a silt curtain is ready. The baseline monitoring for Tuen Mun section of the Project and sediment quality testing were hence undertaken first (thereinafter called *Baseline Environmental Monitoring Part A*) and the results were presented in *Part A* of the report which was submitted to EPD.

The silt curtains were installed at the Airport seawater intake on 20 December 2007 and *Baseline Environmental Monitoring Part B* was then carried out between 22 December 2007 and 2 January 2008.

Impact Monitoring has been carried out at Tuen Mun landing site since 10 November 2007 and at Airport landing site since 16 January 2008. This report, therefore, presents results of the data from monitoring stations around the Tuen Mun and Airport landing sites (*Figure 2.1*). Results of the impact monitoring data will therefore be compared against the results of the *Baseline Environmental Monitoring Part A* and *Part B*.

2.2 SITE DESCRIPTION

The proposed 132kV cable is located in-between Tuen Mun and the Hong Kong International Airport. The alignment of the cable is illustrated in *Figure* 2.1.

2.3 MARINE CONSTRUCTION WORKS UNDERTAKEN DURING REPORTING WEEK

During the reporting week, at the Airport landing site, dredging operations were undertaken during the reporting period from 28 January to 3 February 2008.

The works programme of the period between 28 January and 3 February 2008 is presented in *Annex A*.

2.4 **PROJECT ORGANISATION**

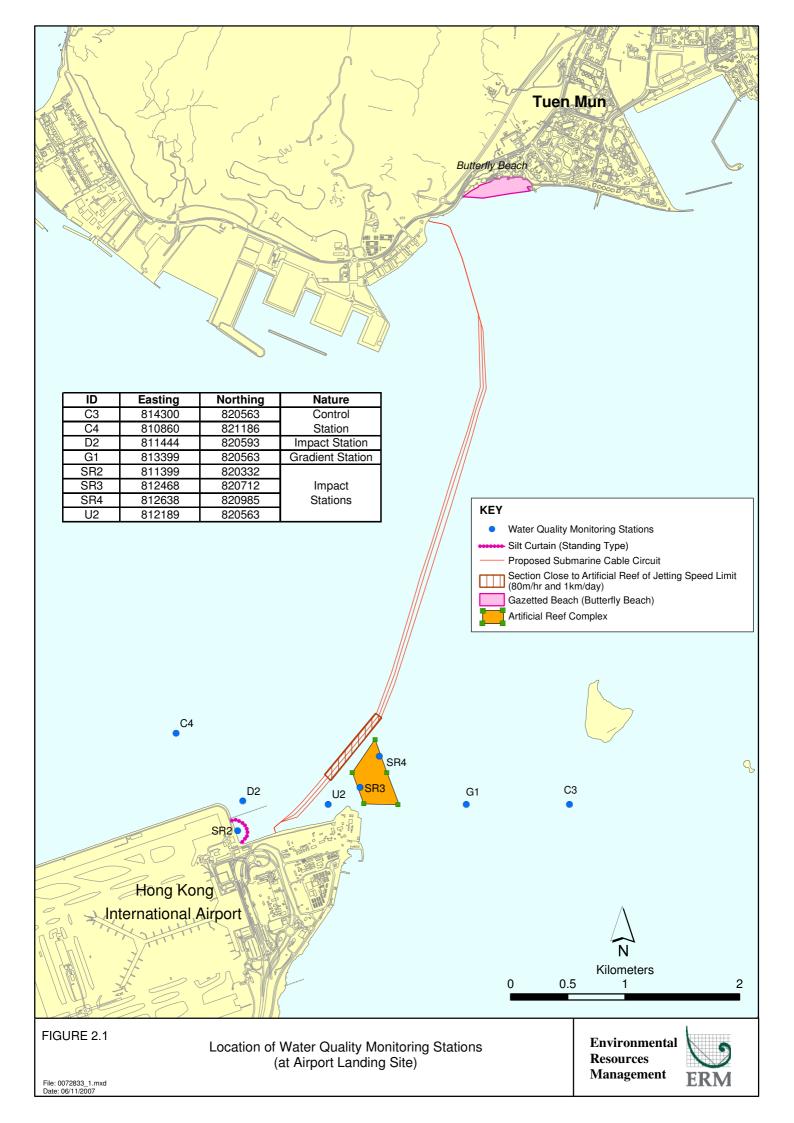
The Project Organisation chart and contact details are shown in *Annex B*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, notifications and/or reports on environmental protection for this Project is presented in *Table 2.1*.

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

Permit / Licence / Notification / Report	Reference	Validity Period	Remarks
EM&A Manual	-	Throughout the	submitted on 25
		construction period	January 2007
Environmental Permit	EP-267/2007	Throughout the	granted on 29
		construction period	March 2007
Baseline Environmental	-	Throughout the	approved by EPD
Monitoring Report (Part A)		construction period for	on 8 November
		Tuen Mun Section	2007
Baseline Environmental	-	Throughout the	approved by EPD
Monitoring Report (Part B)		construction period for	on 16 January
		Airport Section	2008



3.1 MONITORING LOCATIONS

3

In accordance with the *EM&A Manual*, prior to the installation of the cable, water quality sampling was undertaken at stations situated around the cable laying works area at Tuen Mun and the Airport. The locations of the sampling stations are shown in *Figure 2.1*.

- C3 and C4 are Control Stations near the Airport, which are not expected to be influenced by the construction works due to their remoteness from the construction works.
- U2 and D2 are Impact Stations located approximately 300 m either from the cable alignment for monitoring the effect of dredging at the Airport landing point.
- SR2 is Impact Station (sensitive receiver) used to monitor the effect of the construction works to the Seawater Intake at the Airport.
- SR3 and SR4 are Impact Stations (sensitive receivers) used to verify the predictions concerning sediment plume dispersion during dredging at the areas close to the Artificial Reef (AR) and at the landing sites.
- G1 is Gradient Station which is situated in between C3 and the AR. It is used to determine the source of pollutants by comparing the monitoring results with those recorded at C3, SR3 and SR4. Since G1 is located between C3 and the construction work alignment, it serves the gradient function with C3 during flood tide, but has no relationship and function with C4 during ebb tide.

The co-ordinates of these monitoring stations are listed in *Table 3.1*.

Table 3.1	Co-ordinates of Water Quality Monitoring Stations (HK Grid)
-----------	---

Station	Nature	Easting	Northing	
C3	Control Station	814300	820563	
C4	Control Station	810860	821186	
U2	Impact Station	812189	820563	
D2	Impact Station	811444	820593	
SR2	Impact Station	811399	820332	
SR3	Impact Station	812468	820712	
SR4	Impact Station	812638	820985	
G1	Gradient Station	813399	820563	

3.2 MONITORING PARAMETERS AND FREQUENCY

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

3.2.1 *Monitoring Parameters*

Parameters measured *in situ* were:

- dissolved oxygen (DO) (% saturation and mg L⁻¹);
- temperature (°C);
- turbidity (NTU); and
- salinity (‰).

The only parameter measured in the laboratory was:

• suspended solids (SS) (mgL⁻¹).

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

3.2.2 Monitoring Frequency

Impact water quality monitoring was carried out three times a week. The interval between two sets of monitoring was not less than 36 hours. The monitoring was undertaken at 8 locations (five impact monitoring stations D2, U2, SR2, SR3 and SR4, one gradient station G1, and two control monitoring stations C3 and C4), as shown on *Figure 2.1*. Samples were taken during mid-flood and mid-ebb tidal state on each sampling occasion.

3.3 MONITORING EQUIPMENT AND METHODOLOGY

3.3.1 Monitoring Equipment

Dissolved Oxygen, Temperature, Salinity, Turbidity Measuring 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:

- dissolved oxygen levels in the range of 0 50 mg L⁻¹; and 0-500% saturation;
- temperature of -5 to 50 °C;
- turbidity levels between 0-1000 NTU (response of the sensor was checked with certified standard turbidity solutions before the start of measurement); and,
- salinity in the range of 0-40 ppt (checked with 30 ppt Salinity solutions before the start of the measurement).

Water Depth Gauge

The water depth gauge affixed to the bottom of the water quality monitoring vessel was used.

Current Velocity and Direction

Current velocity and direction was estimated by conducting float tracking.

Positioning Device

A Global Positioning System (GPS) was used (C-Navigator World DGPS, GPS 72A) during monitoring to ensure the accurate recording of the position of the monitoring vessel before taking measurements. The use of DGPS was used for positioning device, which was well calibrated at appropriate checkpoint.

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.

3.3.2 Monitoring Methodology

Timing & Frequency

The 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 less than 0.5m for capturing representative tides.

Reference was 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 impact water quality monitoring was conducted between 28 January and 3 February 2008, following the schedule presented in *Annex C*.

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 1m above the sea bed.

Protocols

The multi-parameter measuring instrument (YSI 6820) was checked and calibrated by an HOKLAS accredited laboratory before use. 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 for SS measurements were collected in high density polythene bottles, packed in ice (cooled to 4° C without being frozen), and delivered to an HOKLAS accredited laboratory as soon as possible after collection.

Laboratory Analysis

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

The QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme (for details refer to *Annex D*).

(1) Hong Kong Observatory (2007) http://www.hko.gov.hk/tide/eLOPtide.htm [Accessed on 13 October 2007]

3.3.3 Action and Limit Levels

The Action and Limit levels for the Airport landing site, which were established based on the results of *Baseline Environmental Monitoring Part B*, are presented in *Tables 3.2* respectively.

Table 3.2Action and Limit Levels for Water Quality for the Airport Landing Site

Parameter	Unit	Tide	Depth	Action Level	Limit Level
Suspended Solids (SS)	mg L-1	Mid-Ebb	Depth-averaged	21.6	29.8
		Mid-Flood	Depth-averaged	30.8	34.3
Dissolved	mg L-1	Mid-Ebb	Surface and Middle	6.6	4.0
Oxygen (DO)			Bottom	6.9	2.0
		Mid-Flood	Surface and Middle	6.8	4.0
			Bottom	6.8	2.0
Turbidity	NTU	Mid-Ebb	Depth-averaged	17.4	25.9
		Mid-Flood	Depth-averaged	22.9	27.9

Notes:

 The results recorded at the gradient station during the mid-flood period will be used to decide whether any exceedance being recorded during mid-flood are arising from the marine works of this Project.
 Turbidity and SS levels will make reference to 120% and 130% of value recorded at the upstream control station during the same tidal conditions to assess the compliance of Action and Limit Levels respectively.

3.3.4 Event and Action Plan

The Event and Action Plan for water quality monitoring which was stipulated in the *EM&A Manual* is presented in *Table 3.3*.

Event	Action							
Action Level	Step 1 - repeat sampling event;							
Exceedance	Step 2 – identify source(s) of impact and confirm whether exceedance was due to the construction works;							
	Step 3 – inform EPD and LCSD and confirm notification of the non-compliance in writing;							
	Step 4 - discuss with cable installation contractor the most appropriate method of reducing suspended solids during cable installation (e.g. reduce cable laying speed/volume of water used during installation, increase effectiveness of silt curtain).							
	Step 5 - repeat measurements after implementation of mitigation for confirmation of compliance.							
	Step 6 - if non compliance continues - increase measures in Step 3 and repeat measurements in Step 3. If non compliance occurs a third time, suspend cable laying operations.							
Limit Level Exceedance	Undertake Steps 1-5 immediately, if further non compliance continues at the Limit Level, suspend cable laying operations until an effective solution is identified.							

4.1 RECOMMENDED MITIGATION MEASURES

4

Mitigation measures for water quality control have been recommended in the Project Profile and the Environmental Permit. The Contractor is responsible for the design and implementation of the following measures.

During cable laying the following will be undertaken:

- Although the sediment loss during both grab dredging and suction dredging is expected to be quite small, the Contractor will be employing a silt curtain around the dredgers to reduce the dispersion of sediments from the landing points.
- Closed grab dredgers will be used to avoid dispersion of suspended solids into the sea.
- The maximum dredging rate at Tuen Mun shore approach will be limited to 1,500 m³ day⁻¹ for working 10 hours per day, i.e., 150 m³ hr⁻¹.
- The maximum dredging rates of grab dredgers and suction method, whichever to be deployed by the contractor, at the Airport shore approach will be limited to 650 m³ day⁻¹ and 1,600 m³ day⁻¹ for working 16 hours per day, i.e., 41 m³ hr⁻¹ and 100 m³ hr⁻¹.
- All barges used for the transport of dredged materials will be fitted with tight bottom seals in order to prevent leakage of material during loading and transport.
- All barges will be filled to a level, to ensure that material does not spill over during loading and transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.
- The forward speed of the jetting machine will be limited to a maximum of 80 m hr⁻¹ and 24 hours operation.

4.2 IMPLEMENTATION STATUS OF MITIGATION MEASURES

In additional to the regulatory requirements as mentioned in *Section 4.1* above, the Contractor has implemented a precautionary measure for the works undertaken at the inshore area. As a precautionary measure, a silt curtain has been installed at the Airport seawater intake.

5 MONITORING RESULTS

5.1 IMPACT MONITORING RESULTS

The monitoring data and graphical presentations of the results are included in *Annex E*. These are summarised below.

A total of three monitoring events were scheduled between 28 January and 3 February at the Airport landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 28 January, 30 January and 2 February 2008.

No major activities influencing the water quality were identified between 28 January and 3 February.

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels, and all measured Turbidity and Suspended Solids (SS) levels were below AL Levels during the reporting week. (*Annex E*).

6 ENVIRONMENTAL NON-CONFORMANCES

6.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

No exceedance of the Action and Limit Levels was recorded during the reporting period.

6.2 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

6.3 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period.

6.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

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

7 FUTURE KEY ISSUES

7.1 KEY ISSUES FOR THE COMING MONTH

During the following week (ie 4 February to 10 February 2008), dredging operations will be carried out at the Airport landing site. The expected construction programme is enclosed in *Annex A*.

7.2 MONITORING SCHEDULE FOR THE COMING MONTHS

The tentative schedule of impact water quality monitoring in February 2008 is presented in *Annex C*. The environmental monitoring will be conducted at the same monitoring locations as those for this reporting week.

Dredging operation was carried out at Airport land site during the period of 28 January to 3 February 2008, the monitoring data collected are therefore compared with the impact assessment predictions in the Project Profile. *Table 8.1* shows the predicted maximum suspended solids (SS) elevations that would occur at different distances away from dredging works at the shore ends after taking into account the deployment of silt curtains.

Table 8.1Predicted Elevations of Suspended Solids Concentration due to Dredging at
Shore Ends following the Deployment of Silt Curtains

Distance from Source (m)	Airport (Grab Dredging)						
	Concentration (mg L-1)						
10	54						
100	5						
200	3						
500	1						
1000	1						
2000	0						
3000	0						

Table 8.2 shows the SS levels that were recorded at monitoring stations on 28 and 30 January, 2 February 2008 together with a calculation of elevations by taking control station data as ambient concentrations. During the reporting week, at Airport landing site, the distance between impact stations and the dredger ranged from 250 m to 1100 m. For Airport landing site, most of the measured elevations of SS at the monitoring stations (*Table 8.2*) were in line with previous predictions (*Table 8.1*). Though some measured elevations of SS exceeded the predictions, they did not result in any exceedence of the AL level.

15

Date of	Tidal State	Station	Distance	SS Level	Ambient	Measured	Predicted
Monitoring			from	(mg L-1)	SS Level	SS	SS
C			Grab		(mg L-1) (1)	Elevation	Elevation
			Dredger			(mg L-1)	(mg L-1) ⁽²⁾
			(m)				
28/01/2008	Mid-Ebb	D2	~900	6.83	C4 - 5.00	1.83	1
28/01/2008	Mid-Ebb	U2	~400	6.50	C4 - 5.00	1.50	2
28/01/2008	Mid-Ebb	SR2	~1100	8.75	C4 - 5.00	3.75	1
28/01/2008	Mid-Ebb	SR3	~250	9.33	C4 - 5.00	4.33	3
28/01/2008	Mid-Ebb	SR4	~250	11.00	C4 - 5.00	6.00	3
28/01/2008	Mid-Flood	D2	~900	17.83	C3 - 10.00	7.33	1
28/01/2008	Mid-Flood	U2	~400	11.33	C3 - 10.00	0.83	2
28/01/2008	Mid-Flood	SR2	~1100	11.75	C3 - 10.00	1.25	1
28/01/2008	Mid-Flood	SR3	~250	5.33	C3 - 10.00	-5.17	3
28/01/2008	Mid-Flood	SR4	~250	7.67	C3 - 10.00	-2.83	3
30/01/2008	Mid-Ebb	D2	~900	6.00	C4 - 7.17	-1.17	1
30/01/2008	Mid-Ebb	U2	~400	5.83	C4 - 7.17	-1.33	2
30/01/2008	Mid-Ebb	SR2	~1100	10.25	C4 - 7.17	3.08	1
30/01/2008	Mid-Ebb	SR3	~250	6.17	C4 - 7.17	-1.00	3
30/01/2008	Mid-Ebb	SR4	~250	4.67	C4 - 7.17	-2.50	3
30/01/2008	Mid-Flood	D2	~900	6.33	C3 - 4.83	1.50	1
30/01/2008	Mid-Flood	U2	~400	8.83	C3 - 4.83	4.00	2
30/01/2008	Mid-Flood	SR2	~1100	8.25	C3 - 4.83	3.42	1
30/01/2008	Mid-Flood	SR3	~250	5.17	C3 - 4.83	0.33	3
30/01/2008	Mid-Flood	SR4	~250	2.17	C3 - 4.83	-2.67	3
02/02/2008	Mid-Ebb	D2	~900	5.83	C4 - 4.17	1.67	1
02/02/2008	Mid-Ebb	U2	~400	6.83	C4 - 4.17	2.67	2
02/02/2008	Mid-Ebb	SR2	~1100	6.75	C4 - 4.17	2.58	1
02/02/2008	Mid-Ebb	SR3	~250	6.83	C4 - 4.17	2.67	3
02/02/2008	Mid-Ebb	SR4	~250	4.50	C4 - 4.17	0.33	3
02/02/2008	Mid-Flood	D2	~900	5.50	C3 - 4.33	1.17	1
02/02/2008	Mid-Flood	U2	~400	4.67	C3 - 4.33	0.33	2
02/02/2008	Mid-Flood	SR2	~1100	4.50	C3 - 4.33	0.17	1
02/02/2008	Mid-Flood	SR3	~250	4.00	C3 - 4.33	-0.33	3
02/02/2008	Mid-Flood	SR4	~250	3.50	C3 - 4.33	-0.83	3

Table 8.2Depth-averaged Suspended Sediment (SS) Elevations (mg L-1) due to Dredging
at Impact Station during the Reporting Week

Notes:

 Negative means SS levels at impact stations were lower than the ambient stations. This may be due to the natural fluctuation at the ambient.

(2) The predicted values represent the maximum SS elevations.

CONCLUSIONS

This Weekly Impact Monitoring Report presents the EM&A work undertaken during the period from 28 January to 3 February 2008 in accordance with the EM&A Manual and the requirements under *EP*-267/2007.

No exceedance of Action and Limit Levels was recorded during the reporting week.

No non-compliance event was recorded during the reporting week.

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

The ET will keep track of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

17

Annex A

Works Programme of the Period between 21 January and 17 February 2008

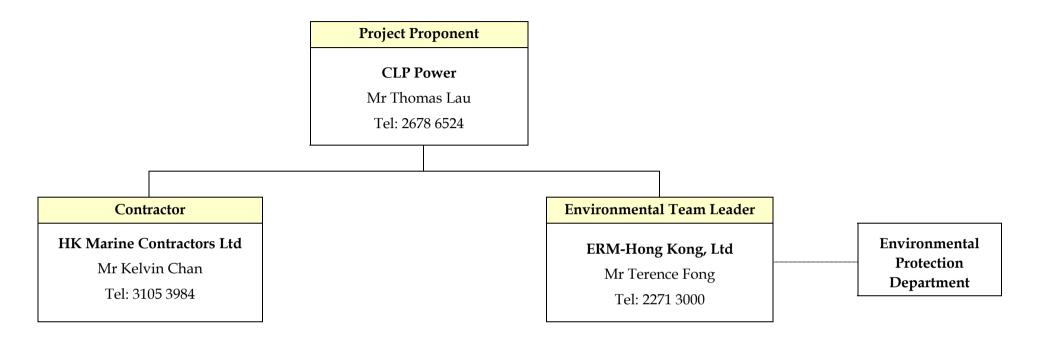
Marine Work of 132kV Submarine Cable Installation between Airport to Tuen Mun

			Workdone for Last Week							Plan for This Week						Anticipate Plan for Next Week						
	Item Date	28/1	29/1	30/1	31/1	1/2	2/2	3/2	4/2	5/2	6/2	7/2	8/2	9/2	10/2	11/2	12/2	13/2	14/2	15/2	16/2	17/2
1	Mobilization of Plants																					
2	Utilities Detection																					
3	Mobilization of Marine Plant																					
4	Site Setting Out																					
5	Site Clearance																					
6	Installation of Silt Curtain																					
5	Rock Breaking (Land Portion)																					
6	Rock Breaking (Marine Portion)																					
7	Dredging (Tuen Mun)																					
8	Mobilization of Marine Plant																					
9	Dredging (Airport)																					
10	Mobilization of Cable Laying Barg	jes																				
11	Cable Lay Barges Preparation W	ork																				
12	Installation of Silt Curtain (AR)																					

Annex B

Project Organisation Chart (with Contact Details)

ANNEX B - PROJECT ORGANIZATION (WITH CONTACT DETAILS)



Line of Project Management Responsibility

Communication Channel

Annex C

Tentative Monitoring Schedule

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit Tentative Water Quality Monitoring Schedule at Tuen Mun and Airport landing site - January 2008

Su	nday	Mo	nday	Tu	esday	Wed	Inesday	Thu	ursday	F	riday	Sat	urday
					01-Jan		02-Jan		03-Jan		04-Jan		05-Ja
						Mid-Ebb	07:14						
						Mid-Flood	13:54						
						Baseline	e Monitoring						
						(Al	irport)						
	06-Jan		07-Jan		08-Jan		09-Jan		10-Jan		11-Jan		12-Ja
						Mid-Ebb	13:43			Mid-Flood	09:44		
						Mid-Flood	18:41			Mid-Ebb	14:59		
						Impact	Monitoring			Impact	Monitoring		
	13-Jan		14-Jan		15-Jan		16-Jan		17-Jan		18-Jan		19-Jai
Mid-Ebb	10:43			Mid-Flood	11:49	Mid-Flood	12:25	Mid-Flood	13:06	Mid-Ebb	08:24	Mid-Flood	14:43
Mid-Flood	16:21			Mid-Ebb	18:13	Mid-Ebb	19:23	Mid-Ebb	20:38	Mid-Flood	13:50	Mid-Ebb	22:48
Impact I	Monitoring			Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring
(Tue	n Mun)			(Tue	en Mun)	(Al	irport)		en Mun)	(A	irport)		en Mun)
	20-Jan		21-Jan		22-Jan		23-Jan		24-Jan		25-Jan		26-Jai
Mid-Ebb	15:56			Mid-Ebb	12:58			Mid-Flood	09:04			Mid-Flood	10:01
Mid-Flood	23:42			Mid-Flood	18:02			Mid-Ebb	14:19			Mid-Ebb	15:30
Impact I	Monitoring			Impact	Monitoring			Impact	Monitoring			Impact	Monitoring
(Ail	rport)			(A	irport)			(A	irport)			(A	irport)
	27-Jan		28-Jan		29-Jan		30-Jan		31-Jan				
		Mid-Flood	10:45			Mid-Flood	11:35						
		Mid-Ebb	16:42			Mid-Ebb	18:47						
		Impact I	Monitoring			Impact	Monitoring						
		(Ail	rport)			(A	irport)						

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit Tentative Water Quality Monitoring Schedule at Tuen Mun and Airport landing site - February 2008

Reference Tidal Station: Lo	ok On Pai (s	ource: HK Obs	ervatory De	partment)								
Sunday	Mc	onday	Tu	esday	Wed	nesday	Thu	rsday	Fi	riday	Sat	urday
										01-Feb		02-Feb
											Mid-Flood	10:08
											Mid-Ebb	22:24
												Monitoring
												irport)
03-Feb		04-Feb		05-Feb		06-Feb		07-Feb		08-Feb		09-Feb
	Mid-Ebb	11:34			Mid-Flood	07:46					Mid-Flood	08:55
	Mid-Flood	16:06			Mid-Ebb	12:54					Mid-Ebb	14:32
		Monitoring				Monitoring						Monitoring
10 5 1	(Ai	irport)		10 5 1		rport)		44 5 1		45 5 1	(Al	irport)
10-Feb		11-Feb		12-Feb		13-Feb		14-Feb		15-Feb		16-Feb
	Mid-Flood	09:41			Mid-Flood	10:38 17:27			Mid-Flood	11:50		
	Mid-Ebb	15:44 Monitoring			Mid-Ebb	Monitoring			Mid-Ebb	20:08 Monitoring		
		irport)				irport)				irport)		
17-Feb	(A)	18-Feb		19-Feb		20-Feb		21-Feb		22-Feb		23-Feb
17-1 60	Mid-Flood	16:09	Mid-Ebb		Mid-Ebb	12:48	Mid-Ebb	13:22	Mid-Ebb		Mid-Flood	08:40
	Mid-Ebb	23:37	Mid-Ebb		Mid-Ebb	-	Mid-Ebb		Mid-Ebb		Mid-Ebb	14:21
		Monitoring		Monitoring		Monitoring		Vonitoring		Monitoring		Monitoring
		irport)		en Mun)		irport		n Mun)		irport)		n Mun)
24-Feb		25-Feb		26-Feb		27-Feb	(1.2.2.	28-Feb		29-Feb		- /
	Mid-Flood	09:18	Mid-Flood	09:39	Mid-Flood	10:00	Mid-Flood	10:18	Mid-Flood	10:21		
	Mid-Ebb	15:22	Mid-Ebb	15:58	Mid-Ebb	16:40	Mid-Ebb	17:34	Mid-Ebb	19:13		
	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact I	Monitoring	Impact	Monitoring		
	(Ai	irport)	(Tue	en Mun)	(A	rport)	(Tuei	n Mun)	(Ai	irport)		

The schedule is subject to agreement from the EPD on the monitoring times. The schedule will be revised after reviewing the progress of the construction works or due to adverse (safety, weather etc) conditions.

Annex D

QA/QC Results of Laboratory Testing for Suspended Solids

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client Contact Address	 ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY HONG KONG 	Laboratory Contact Address	 ALS Technichem (HK) Pty Ltd Alice Wong 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Page Work Order	: 1 of 9 F HK0801428
E-mail Telephone	: Karen.Lui@erm.com : 2271 3000	E-mail Telephone	 Alice.Wong@alsenviro.com +852 2610 1044 		
Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 28 Jan 2008
Order number C-O-C number Site	: : :			Date of issue No. of samples	: 1 Feb 2008 - Received : 92 - Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801428 supersedes any previous reports with this reference. The completion date of analysis is 30 Jan 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Specific comments for Work Order HK0801428 :

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	Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

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Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER					Duplicate (DUP) Results					
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5830	(42)								
HK0801428-001	2008/01/28/10:26/C4/B/F/	EA025: Suspended Solids (SS)		1	mg/L	10	14	31.8		
	REPL. 1									
HK0801428-011	2008/01/28/10:00/SR3/M/F/	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0		
	REPL. 2									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5830	143)								
HK0801428-021	2008/01/28/10:17/D2/T/F/	EA025: Suspended Solids (SS)		1	mg/L	19	16	19.0		
	REPL. 1									
HK0801428-031	2008/01/28/09:49/SR4/B/F/	EA025: Suspended Solids (SS)		1	mg/L	11	13	20.7		
	REPL. 1									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5830	944)								
HK0801428-041	2008/01/28/09:42/G1/M/F/	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0		
	REPL. 2									
HK0801428-051	2008/01/28/16:12/C4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	4	6	37.4		
	REPL. 2									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5830	45)								
HK0801428-061	2008/01/28/15:52/U2/T/E/	EA025: Suspended Solids (SS)		1	mg/L	4	6	32.1		
	REPL. 1									
HK0801428-071	2008/01/28/15:16/C3/B/E/	EA025: Suspended Solids (SS)		1	mg/L	9	7	24.6		
	REPL. 1									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5830	46)								
HK0801428-081	2008/01/28/15:38/SR4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	14	13	10.7		
	REPL. 2									
HK0801428-091	2008/01/28/15:34/SR2/B/E/	EA025: Suspended Solids (SS)		1	mg/L	8	10	14.5		
	REPL. 2									

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Page Number	:	9 of 9
Client	:	ERM HONG KONG
Work Order		HK0801428



Matrix Type: WATER			Method Blank (MB) Results	Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
				Spike	Spike Re	covery (%)	Recovery Limits (%)		RPDs (%)		
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583042)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583043)		·	·							
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583044)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583045)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 583046)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		

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Client Contact Address	 ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY 	Laboratory Contact Address	 ALS Technichem (HK) Pty Ltd Alice Wong 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Page Work Order	1 of 9 HK0801584
E-mail Telephone	HONG KONG Karen.Lui@erm.com 2271 3000	E-mail Telephone	Alice.Wong@alsenviro.com +852 2610 1044		
Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 30 Jan 2008
Order number	:			Date of issue	: 4 Feb 2008
C-O-C number Site	: :			No. of samples	- Received : 92 - Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801584 supersedes any previous reports with this reference. The completion date of analysis is 4 Feb 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

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	Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

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Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER	Design of the system Client Sample ID Method: Analysis Description VED: Physical and Aggregate Properties (QC Lot: 584537) EA025: Suspended Solids (SS) K0801584-001 2008/01/30/11:02/C4/B/F/ EA025: Suspended Solids (SS) REPL. 1 K0801584-011 2008/01/30/10:37/SR3/M/F/ EA025: Suspended Solids (SS) REPL. 2 REPL. 2 VED: Physical and Aggregate Properties (QC Lot: 584538) K0801584-021 2008/01/30/10:52/D2/T/F/ EA025: Suspended Solids (SS) REPL. 1 2008/01/30/10:52/D2/T/F/ EA025: Suspended Solids (SS) REPL. 1 K0801584-021 2008/01/30/10:52/D2/T/F/ EA025: Suspended Solids (SS) REPL. 1 K0801584-032 2008/01/30/10:27/SR4/M/F/ EA025: Suspended Solids (SS) REPL. 1 K0801584-043 2008/01/30/10:32/SR2/B/F/ EA025: Suspended Solids (SS) REPL. 1 K0801584-051 2008/01/30/18:19/C4/M/E/ EA025: Suspended Solids (SS) REPL. 2 KDED: Physical and Aggregate Properties (QC Lot: 584540) REPL. 2 KD205: Suspended Solids (SS) REPL. 2 KD801584-062 2008/01/30/18:02/U2/B/E/ EA025: Suspended Solids (SS) REPL. 2 KD205: Suspended Solids (SS) REP			Duplicate (DUP) Results						
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5845	37)								
HK0801584-001	2008/01/30/11:02/C4/B/F/	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0		
	REPL. 1									
HK0801584-011	2008/01/30/10:37/SR3/M/F/	EA025: Suspended Solids (SS)		1	mg/L	5	6	0.0		
	REPL. 2									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5845	38)								
HK0801584-021	2008/01/30/10:52/D2/T/F/	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0		
	REPL. 1									
HK0801584-032	2008/01/30/10:27/SR4/M/F/	EA025: Suspended Solids (SS)		1	mg/L	1	1	0.0		
	REPL. 1									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5845	39)								
HK0801584-043	2008/01/30/10:32/SR2/B/F/	EA025: Suspended Solids (SS)		1	mg/L	10	9	11.4		
	REPL. 1									
HK0801584-051	2008/01/30/18:19/C4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	8	6	18.2		
	REPL. 2									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5845	40)								
HK0801584-062	2008/01/30/18:02/U2/B/E/	EA025: Suspended Solids (SS)		1	mg/L	7	8	18.0		
	REPL. 2									
HK0801584-071	2008/01/30/17:28/C3/B/E/	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		
	REPL. 1									
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5845	41)								
HK0801584-081	2008/01/30/17:48/SR4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
	REPL. 2									
HK0801584-091	2008/01/30/17:27/SR2/B/E/	EA025: Suspended Solids (SS)		1	mg/L	9	10	0.0		
	REPL. 2									

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

Page Number	: 9 of 9
Client	: ERM HONG KONG
Work Order	HK0801584



Matrix Type: WATER		Method Blank (MB) Results			Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results						
					Spike	Spike Red	covery (%)	Recovery Limits (%)		RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	SCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 584537)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 584538)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 584539)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 584540)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 584541)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.0		85	115		

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Client Contact Address	 ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY 	Laboratory Contact Address	 ALS Technichem (HK) Pty Ltd Alice Wong 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 	Page Work Order	i 1 of 9 HK0801719
E-mail Telephone	HONG KONG Karen.Lui@erm.com 2271 3000	E-mail Telephone	 Alice.Wong@alsenviro.com +852 2610 1044 		
Facsimile Project	2723 5660 EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Facsimile Quote number	: +852 2610 2021 :	Date received	: 4 Feb 2008
Order number C-O-C number Site	: : :			Date of issue No. of samples	: 6 Feb 2008 - Received : 92 - Analysed : 92

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0801719 supersedes any previous reports with this reference. The completion date of analysis is 6 Feb 2008. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

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Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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	Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group Trading Name: ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong

Tel: +852 2610 1044 Fax: +852 2610 2021 www.alsenviro.com

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Quality Control - Laboratory Duplicate (DUP) Results

Matrix Type: WATER						Duplicate (DUP)	Results	
Laboratory Sample ID	Client Sample ID	Method: Analysis Description	CAS number	LOR	Units	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5877	34)						
HK0801719-002	2008/02/02/22:07/C4/M/E/	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
	REPL.1							
HK0801719-011	2008/02/02/21:39/SR/M/E/	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
	REPL.2							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5877	35)						
HK0801719-021	2008/02/02/21:57/D2/T/E/	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
	REPL.1							
HK0801719-031	2008/02/02/21:27/SR4/B/E/	EA025: Suspended Solids (SS)		1	mg/L	6	5	20.5
	REPL.1							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5877	36)						
HK0801719-041	2008/02/02/21:20/G1/M/E/	EA025: Suspended Solids (SS)		1	mg/L	3	4	0.0
	REPL.2							
HK0801719-052	2008/02/02/09:53/C4/T/F/	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0
	REPL.2							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5877	37)						
HK0801719-066	2008/02/02/09:40/D2/M/F/	EA025: Suspended Solids (SS)		1	mg/L	4	5	24.6
	REPL.1							
HK0801719-073	2008/02/02/08:56/C3/T/F/	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0
	REPL.1							
EA/ED: Physical and A	Aggregate Properties (QC Lot: 5877	38)						
HK0801719-083	2008/02/02/09:04/G1/B/F/	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
	REPL.1							
HK0801719-091	2008/02/02/09:53/SR2/B/F/	EA025: Suspended Solids (SS)		1	mg/L	5	6	21.8
	REPL.2							

Quality Control - Method Blank (MB), Single Control Spike (SCS) and Duplicate Control Spike (DCS) Results

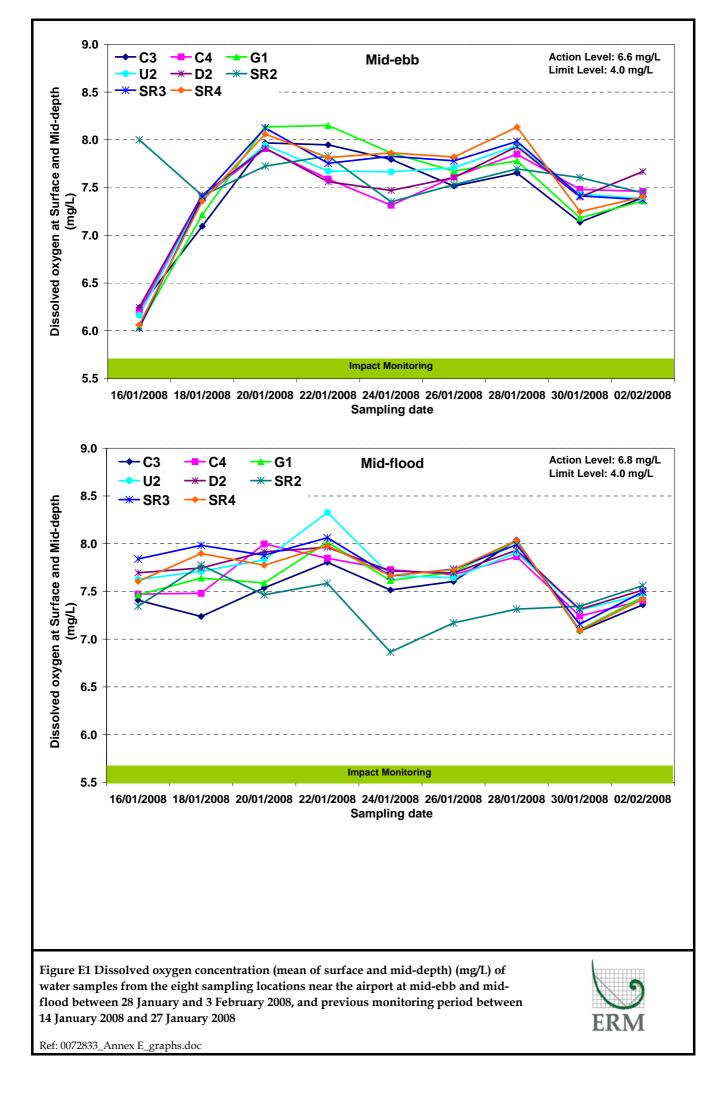
Page Number	:	9 of 9
Client	:	ERM HONG KONG
Work Order		HK0801719

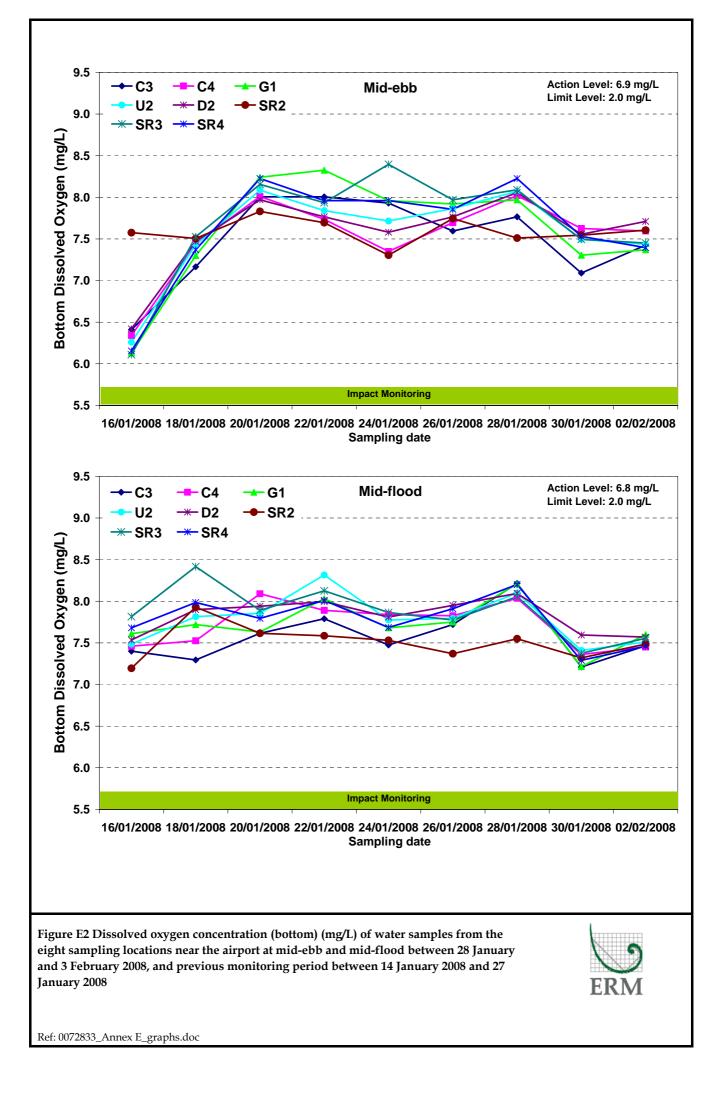


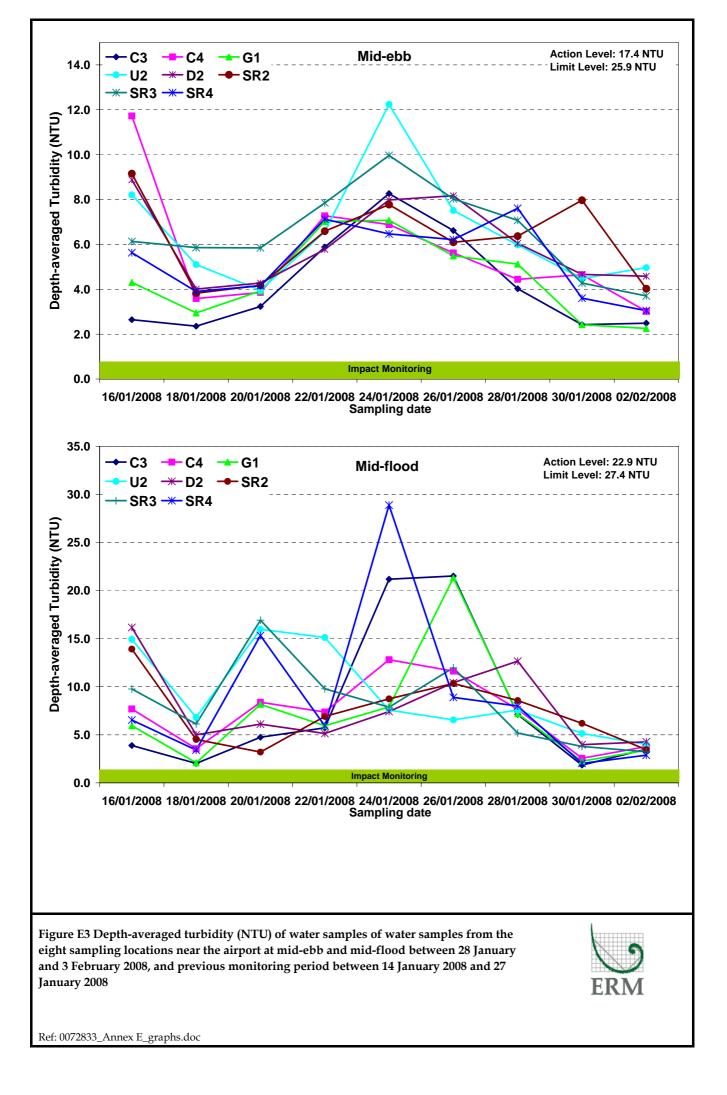
Matrix Type: WATER			Method Blank (MB) Results		Single Co	ntrol Spike (SCS) and Du	plicate Con	trol Spike (D	CS) Results	
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPDs (%)	
Method: Analysis Description	CAS number	LOR	Units	Result	Concentration	scs	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propert	ies (QCLot: 587734)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 587735)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.0		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 587736)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Propert	ies (QCLot: 587737)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 587738)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	93.5		85	115		

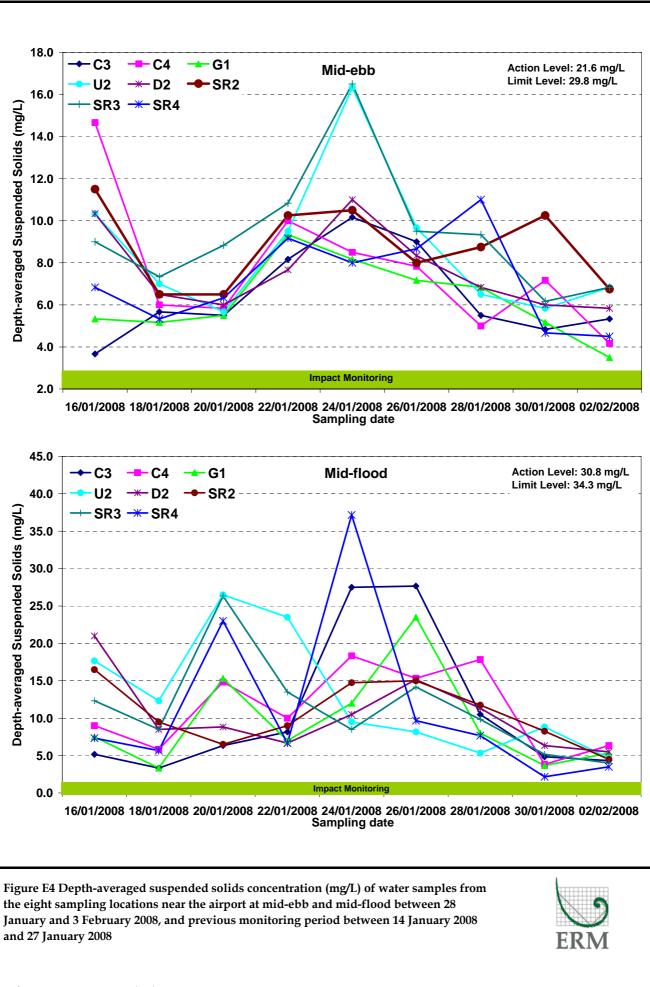
Annex E

Impact Water Quality Monitoring Results









Ref: 0072833_Annex E_graphs.doc

Sampling Date	01/28/08
Weather & Ambient Temperature	Cloudy, 13C

Station			C	3						Station			U	12					
Time (hh:mm)			15:16	-15:20						Time (hh:mm)			15:51	-15:54					
Water Depth (m)			12	.20						Water Depth (m)			9.	50					
Monitoring Depth (m)	1.	.10	6.	.10	11	.00				Monitoring Depth (m)	1	.00	4.	80	8	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.3	17.3	17.2	17.2	17.2	17.2	17.23	-		Water Temperature (°C)	16.4	16.4	16.3	16.4	16.3	16.3	16.36	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.2	32.3	32.27	-		Salinity (ppt)	32.2	32.1	32.2	32.2	32.1	32.2	32.15	-	
рН	7.8	7.8	7.8	7.8	7.8	7.8	7.79			pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	97.8	96.0	97.0	96.0	98.9	97.0	97.11	-		D.O. Saturation (%)	99.0	97.6	99.9	97.9	101.7	98.4	99.08	-	
D.O. (mg/L)	7.72	7.59	7.69	7.61	7.84	7.69	7.69	7.77	7.65	D.O. (mg/L)	7.97	7.86	8.05	7.88	8.20	7.94	7.98	8.07	7.94
Turbidity (NTU)	2.50	2.40	4.80	4.20	4.80	5.50	4.02	-		Turbidity (NTU)	4.40	4.80	6.20	5.70	7.80	7.10	5.98	-	
SS (mg/L)	2.0	4.0	5.0	5.0	9.0	8.0	5.50	-		SS (mg/L)	4.0	4.0	6.0	6.0	11.0	8.0	6.50	-	
Remarks		•			•					Remarks									

Station			(24]			Station			S	R2			1		
Time (hh:mm)			16:09	-16:13						Time (hh:mm)			15:28	-15:37					
Water Depth (m)			10	.20						Water Depth (m)			4.	10					
Monitoring Depth (m)	0	.80	5.	.20	9.	20				Monitoring Depth (m)	1.	10			3.	20			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	16.5	16.5	16.5	16.5	16.5	16.5	16.49	-		Water Temperature (°C)	16.5	16.5			16.5	16.4	16.49	-	
Salinity (ppt)	32.2	32.2	32.2	32.2	32.2	32.2	32.21	-		Salinity (ppt)	31.9	31.9			31.9	32.0	31.92	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83			рН	8.0	8.0			8.0	8.0	8.01		
D.O. Saturation (%)	98.0	96.5	99.2	97.1	101.9	97.7	98.39	-		D.O. Saturation (%)	97.1	94.1			93.9	92.6	94.43	-	
D.O. (mg/L)	7.88	7.75	7.97	7.80	8.19	7.85	7.91	8.02	7.85	D.O. (mg/L)	7.82	7.57			7.56	7.46	7.60	7.51	7.70
Turbidity (NTU)	4.30	4.20	4.30	4.70	4.40	4.70	4.44	-		Turbidity (NTU)	5.60	5.60			6.50	7.70	6.37	-	
SS (mg/L)	4.0	4.0	6.0	4.0	5.0	7.0	5.00	-		SS (mg/L)	11.0	8.0			8.0	8.0	8.75	-	
Remarks										Remarks									

Station			D)2			1			Station			SI	२३					
Time (hh:mm)			16:00	-16:03						Time (hh:mm)			15:43	-15:47					
Water Depth (m)			8.	80						Water Depth (m)			13	.80					
Monitoring Depth (m)	1.	.00	4.	00	7.	40				Monitoring Depth (m)	1.00		6.50		0 11.				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	16.3	16.3	16.3	16.3	16.3	16.4	16.34	-		Water Temperature (°C)	16.4	16.4	16.4	16.3	16.4	16.4	16.37	-	
Salinity (ppt)	32.2	32.2	32.2	32.2	32.2	32.2	32.19	-		Salinity (ppt)	32.1	32.1	32.2	32.1	32.2	32.2	32.15	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.82			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	98.5	97.8	99.2	97.9	101.5	98.4	98.87	-		D.O. Saturation (%)	99.6	97.9	100.4	98.3	102.3	98.5	99.51	-	
D.O. (mg/L)	7.94	7.89	8.00	7.89	8.18	7.93	7.97	8.06	7.93	D.O. (mg/L)	8.03	7.89	8.09	7.92	8.24	7.94	8.02	8.09	7.98
Turbidity (NTU)	6.90	5.80	6.10	5.80	5.80	6.10	6.05	-		Turbidity (NTU)	4.80	5.60	6.30	5.40	10.00	10.50	7.07	-	
SS (mg/L)	8.0	6.0	6.0	8.0	7.0	6.0	6.83	-		SS (mg/L)	6.0	5.0	5.0	8.0	17.0	15.0	9.33	-	
Remarks										Remarks									

Station			G	i1			1			Station			SI	R4					
Time (hh:mm)			15:26	-15:29						Time (hh:mm)			15:35	-15:39					
Water Depth (m)			13	.20						Water Depth (m)			14	.50					
Monitoring Depth (m)	1.	10	6.	60	12	.00				Monitoring Depth (m)	1.	20	7.	20	12	.90			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	17.3	17.2	17.2	17.2	17.2	17.2	17.21	-		Water Temperature (°C)	16.3	16.3	16.3	16.3	16.3	16.3	16.30	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.26	-		Salinity (ppt)	32.1	32.1	32.2	32.2	32.2	32.2	32.14	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.82			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	99.2	97.2	99.5	97.3	102.6	98.5	99.04	-		D.O. Saturation (%)	101.4	100.0	101.8	99.9	103.6	100.4	101.17	-	
D.O. (mg/L)	7.84	7.69	7.88	7.71	8.13	7.81	7.84	7.97	7.78	D.O. (mg/L)	8.19	8.07	8.21	8.06	8.35	8.10	8.16	8.23	8.13
Turbidity (NTU)	3.20	4.00	5.70	5.60	6.50	5.80	5.12	-		Turbidity (NTU)	5.40	4.80	9.00	9.40	8.10	9.10	7.61	-	
SS (mg/L)	4.0	5.0	8.0	8.0	8.0	8.0	6.83	-		SS (mg/L)	7.0	13.0	11.0	14.0	9.0	12.0	11.00	-	
Remarks										Remarks									

Mid-Ebb

Sampling Date	01/28/08
Weather & Ambient Temperature	Cloudy, 11C

Station C3 Station U2 Time (hh:mm) 09:30-09:33 Time (hh:mm) 10:05-10:10 Water Depth (m) 11.50 Water Depth (m) 9.00 Monitoring Depth (m) 1.10 5.50 10.00 Monitoring Depth (m) 1.10 4.50 8.10 Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-Bottom Surface& Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-Bottom Surface&M Middle iddle averaged averaged Water Temperature (°C) 16.6 16.6 16.5 16.5 16.5 16.5 16.52 Water Temperature (°C) 16.1 16.1 16.1 16.1 16.1 16.1 16.07 -. Salinity (ppt) 32.0 32.1 32.3 32.2 32.5 32.5 32.26 Salinity (ppt) 32.0 32.0 32.1 32.1 32.1 32.1 32.05 --7.8 7.9 7.8 7.9 7.9 7.9 7.85 7.9 7.9 7.9 7.9 7.9 7.9 7.90 pН рΗ D.O. Saturation (%) 100.4 98.5 101.6 99.8 104.8 100.0 100.85 -D.O. Saturation (%) 97.9 96.6 98.2 97.3 100.2 99.7 98.30 -D.O. (mg/L) 8.06 7.91 8.16 8.02 8.41 8.02 8.10 8.22 8.04 D.O. (mg/L) 7.94 7.83 7.96 7.89 8.12 8.08 7.97 8.10 7.91 Turbidity (NTU) 4.80 5.30 6.60 6.60 10.20 9.40 7.12 Turbidity (NTU) 7.40 7.20 8.50 7.40 8.30 6.80 7.57 --SS (mg/L) 7.0 12.0 9.0 9.0 11.0 15.0 10.50 -SS (mg/L) 9.0 13.0 11.0 8.0 9.0 18.0 11.33 -Remarks Remarks

Station			(4						Station			S	R2					
Time (hh:mm)			10:26	-10:29						Time (hh:mm)			10:07	-10:17					
Water Depth (m)			9.	40						Water Depth (m)			4.	10					
Monitoring Depth (m)	0.	.90	4.	70	8.	00				Monitoring Depth (m)	1.	10			3.00				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.3	16.3	16.3	16.3	16.3	16.3	16.29	-		Water Temperature (°C)	16.6	16.7			16.5	16.4	16.55	-	
Salinity (ppt)	32.1	32.1	32.1	32.2	32.2	32.2	32.15	-		Salinity (ppt)	31.7	31.7			32.0	32.1	31.88	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91			рН	8.0	8.0			8.0	8.1	7.99		
D.O. Saturation (%)	97.9	96.6	98.4	96.9	101.9	97.3	98.14	-		D.O. Saturation (%)	95.2	87.0			94.0	93.6	92.43	-	
D.O. (mg/L)	7.90	7.80	7.94	7.82	8.22	7.85	7.92	8.04	7.87	D.O. (mg/L)	7.65	6.98			7.57	7.53	7.43	7.55	7.32
Turbidity (NTU)	6.10	5.80	7.60	6.20	9.90	10.50	7.66	-		Turbidity (NTU)	8.20	9.50			8.60	8.00	8.56	-	
SS (mg/L)	8.0	7.0	7.0	11.0	10.0	16.0	9.83	-		SS (mg/L)	14.0	12.0			11.0	10.0	11.75	-	
Remarks										Remarks									

Station			C)2			1			Station			SI	R3			1		
Time (hh:mm)			10:16	-10:19						Time (hh:mm)			09:57	-10:01					
Water Depth (m)			8.	20						Water Depth (m)			12	.90					
Monitoring Depth (m)	1.	.00	4.	30	7.	10				Monitoring Depth (m)	1.	00	6.	00	11	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.1	16.1	16.2	16.2	16.2	16.2	16.16	-		Water Temperature (°C)	16.2	16.2	16.2	16.2	16.3	16.3	16.25	-	
Salinity (ppt)	32.1	32.1	32.1	32.1	32.1	32.1	32.11	-		Salinity (ppt)	32.1	32.1	32.1	32.1	32.4	32.2	32.16	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	98.4	96.9	99.1	97.4	102.3	98.1	98.69	-		D.O. Saturation (%)	99.3	98.1	99.7	98.4	101.2	98.6	99.20	-	
D.O. (mg/L)	7.97	7.86	8.02	7.88	8.27	7.92	7.99	8.10	7.93	D.O. (mg/L)	8.02	7.93	8.06	7.95	8.15	7.96	8.01	8.06	7.99
Turbidity (NTU)	12.60	10.00	13.10	12.60	13.30	14.20	12.66	-		Turbidity (NTU)	3.60	3.70	4.40	4.00	8.90	6.40	5.19	-	
SS (mg/L)	19.0	17.0	18.0	16.0	16.0	21.0	17.83	-		SS (mg/L)	4.0	6.0	1.0	4.0	12.0	5.0	5.33	-	
Remarks										Remarks									

Station			G	61]			Station			S	R4]		
Time (hh:mm)			09:40	-09:43						Time (hh:mm)			09:49	-09:52					
Water Depth (m)			12	.80						Water Depth (m)			13	.90					
Monitoring Depth (m)	0.	90	6.	10	11	.10				Monitoring Depth (m)	1.	.00	6.	90	13	3.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.7	16.7	16.6	16.5	16.4	16.4	16.55	-		Water Temperature (°C)	16.5	16.6	16.5	16.5	16.4	16.4	16.48	-	
Salinity (ppt)	32.2	32.2	32.3	32.3	32.4	32.5	32.32	-		Salinity (ppt)	32.2	32.2	32.3	32.2	32.4	32.5	32.32	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	100.1	98.8	101.7	100.0	104.3	100.1	100.83	-		D.O. Saturation (%)	101.3	98.3	101.3	99.4	104.3	99.7	100.70	-	
D.O. (mg/L)	8.01	7.91	8.16	8.03	8.38	8.04	8.09	8.21	8.03	D.O. (mg/L)	8.13	7.88	8.14	7.98	8.38	8.02	8.09	8.20	8.03
Turbidity (NTU)	7.20	5.20	7.40	7.20	8.50	7.90	7.20	-		Turbidity (NTU)	6.20	5.90	7.50	6.40	11.00	11.10	8.00	-	
SS (mg/L)	9.0	8.0	8.0	8.0	9.0	6.0	8.00	-		SS (mg/L)	8.0	6.0	7.0	8.0	11.0	6.0	7.67	-	
Remarks										Remarks									

Mid-Flood

Sampling Date	01/30/08
Weather & Ambient Temperature	Cloudy, 11C

Station			C	3			1			Station			L	J2			1		
Time (hh:mm)			17:28	-17:31						Time (hh:mm)			18:00	-18:03					
Water Depth (m)			12	.10						Water Depth (m)			9.	20					
Monitoring Depth (m)	1.	.10	6.	10	11	.00				Monitoring Depth (m)	1.	00	4.	00	8.	20			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.9	16.9	16.9	16.9	17.0	17.0	16.96	-		Water Temperature (°C)	16.0	16.1	16.1	16.2	16.2	16.2	16.13	-	
Salinity (ppt)	32.4	32.4	32.4	32.4	32.4	32.4	32.37	-		Salinity (ppt)	32.0	32.1	32.1	32.2	32.2	32.2	32.13	-	
рН	7.8	7.8	7.8	7.8	7.8	7.8	7.79			рН	7.9	7.9	7.8	7.9	7.8	7.8	7.85		
D.O. Saturation (%)	90.2	89.7	89.2	89.5	89.0	89.5	89.52	-		D.O. Saturation (%)	92.0	91.8	91.7	91.4	93.3	92.1	92.04	-	
D.O. (mg/L)	7.18	7.14	7.10	7.13	7.07	7.11	7.12	7.09	7.14	D.O. (mg/L)	7.47	7.44	7.43	7.38	7.55	7.44	7.45	7.50	7.43
Turbidity (NTU)	2.10	2.10	2.30	2.40	2.80	2.70	2.42	-		Turbidity (NTU)	4.30	4.70	3.80	4.00	5.00	5.10	4.48	-	
SS (mg/L)	3.0	4.0	4.0	3.0	7.0	8.0	4.83	-		SS (mg/L)	5.0	6.0	6.0	5.0	6.0	7.0	5.83	-	
Remarks										Remarks									

Station			C	24]			Station			S	R2			1		
Time (hh:mm)			18:16	-18:20						Time (hh:mm)			17:21	-17:29					
Water Depth (m)			9.	20						Water Depth (m)			4.	30					
Monitoring Depth (m)	1.	10	4.	.60	8.	10				Monitoring Depth (m)	1.	00			2.	80			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.0	16.0	16.0	16.0	16.0	16.0	15.98	-		Water Temperature (°C)	16.1	16.2			16.1	16.2	16.14	-	
Salinity (ppt)	32.1	32.1	32.2	32.2	32.2	32.2	32.15	-		Salinity (ppt)	31.9	31.9			31.9	32.0	31.93	-	
рН	7.9	7.9	7.8	7.9	7.8	7.9	7.85			рН	7.9	8.0			7.9	8.0	7.93		
D.O. Saturation (%)	92.5	91.9	92.3	91.8	95.8	92.0	92.72	-		D.O. Saturation (%)	97.0	90.7			94.9	91.4	93.48	-	
D.O. (mg/L)	7.51	7.47	7.49	7.45	7.78	7.47	7.53	7.63	7.48	D.O. (mg/L)	7.86	7.35			7.69	7.40	7.58	7.55	7.61
Turbidity (NTU)	3.70	3.60	5.20	5.20	5.50	4.80	4.65	-		Turbidity (NTU)	8.40	8.00			8.20	7.30	7.97	-	
SS (mg/L)	7.0	7.0	7.0	8.0	8.0	6.0	7.17	-		SS (mg/L)	12.0	10.0			10.0	9.0	10.25	-	
Remarks										Remarks									

Station			[02			1			Station			SI	R3			1		
Time (hh:mm)			18:08	8-18:11						Time (hh:mm)			17:53	-17:56					
Water Depth (m)			8	.50						Water Depth (m)			13	.30					
Monitoring Depth (m)	1.	.20	4	.00	7.	30				Monitoring Depth (m)	1.	10	6.	60	12	2.30			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.2	16.2	16.3	16.3	16.3	16.3	16.24	-		Water Temperature (°C)	16.4	16.4	16.3	16.2	16.1	15.9	16.22	-	
Salinity (ppt)	32.0	32.0	32.2	32.2	32.2	32.2	32.13	-		Salinity (ppt)	32.2	32.2	32.2	32.2	32.1	32.1	32.16	-	
рН	7.8	7.9	7.8	7.9	7.8	7.9	7.84			рН	7.8	7.9	7.8	7.9	7.8	7.9	7.85		
D.O. Saturation (%)	91.6	91.5	91.9	91.3	95.6	91.8	92.27	-		D.O. Saturation (%)	92.3	91.7	91.8	92.0	92.8	91.9	92.08	-	
D.O. (mg/L)	7.41	7.41	7.42	7.36	7.71	7.40	7.45	7.56	7.40	D.O. (mg/L)	7.42	7.38	7.41	7.44	7.52	7.47	7.44	7.50	7.41
Turbidity (NTU)	4.40	4.30	3.90	3.60	6.00	5.70	4.66	-		Turbidity (NTU)	3.60	3.70	4.00	4.90	5.40	4.00	4.28	-	
SS (mg/L)	6.0	5.0	8.0	7.0	4.0	6.0	6.00	-		SS (mg/L)	4.0	6.0	8.0	6.0	5.0	8.0	6.17	-	
Remarks										Remarks									

Station			6	91						Station			S	R4					
Time (hh:mm)			17:37	-17:40						Time (hh:mm)			17:46	-17:49					
Water Depth (m)			13	.10						Water Depth (m)			14	.30					
Monitoring Depth (m)	1.	.10	6.	50	12	2.00				Monitoring Depth (m)	1.	20	7.	50	13	.40			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.9	16.9	17.0	16.9	17.0	17.0	16.94	-		Water Temperature (°C)	16.9	16.9	16.8	16.7	15.6	15.6	16.41	-	
Salinity (ppt)	32.4	32.4	32.4	32.4	32.4	32.4	32.37	-		Salinity (ppt)	32.4	32.4	32.3	32.3	32.1	32.2	32.28	-	
рН	7.8	7.8	7.8	7.8	7.8	7.8	7.82			рН	7.8	7.9	7.8	7.9	7.8	7.8	7.84		
D.O. Saturation (%)	90.4	90.2	90.3	90.0	93.6	90.2	90.77	-		D.O. Saturation (%)	90.6	90.4	91.3	91.1	93.0	91.1	91.26	-	
D.O. (mg/L)	7.20	7.18	7.19	7.16	7.44	7.17	7.22	7.31	7.18	D.O. (mg/L)	7.21	7.20	7.30	7.28	7.61	7.45	7.34	7.53	7.25
Turbidity (NTU)	2.40	2.20	2.30	2.30	3.00	2.20	2.42	-		Turbidity (NTU)	2.60	2.10	3.20	3.00	5.30	5.40	3.60	-	
SS (mg/L)	6.0	5.0	6.0	5.0	4.0	5.0	5.17	-		SS (mg/L)	2.0	3.0	6.0	4.0	5.0	8.0	4.67	-	
Remarks										Remarks									

Mid-Ebb

Sampling Date	01/30/08
Weather & Ambient Temperature	Cloudy, 11C

Mid-Flood

Station			C	3			1			Station			U	2			1		
Time (hh:mm)			10:07	-10:11						Time (hh:mm)			10:42	-10:45					
Water Depth (m)			11	.60						Water Depth (m)			9.	00					
Monitoring Depth (m)	1.	10	5.	80	10	.10				Monitoring Depth (m)	1.	10	4.:	50	8.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.0	17.0	17.0	17.0	17.0	17.0	17.01	-		Water Temperature (°C)	16.2	16.1	16.1	16.1	16.0	16.0	16.08	-	
Salinity (ppt)	32.4	32.4	32.4	32.4	32.3	32.4	32.38	-		Salinity (ppt)	32.2	32.2	32.2	32.2	32.2	32.2	32.19	-	
pH	7.7	7.8	7.7	7.8	7.7	7.8	7.75			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	89.8	88.8	89.1	88.9	92.2	89.2	89.68	-		D.O. Saturation (%)	90.2	89.9	90.6	90.3	92.1	90.5	90.59	-	
D.O. (mg/L)	7.14	7.06	7.08	7.06	7.33	7.09	7.13	7.21	7.09	D.O. (mg/L)	7.30	7.28	7.33	7.31	7.48	7.34	7.34	7.41	7.31
Turbidity (NTU)	1.80	1.40	1.60	1.60	2.70	1.90	1.85	-		Turbidity (NTU)	3.70	4.20	4.10	4.70	5.80	8.30	5.14	-	
SS (mg/L)	4.0	4.0	6.0	4.0	6.0	5.0	4.83	-		SS (mg/L)	6.0	9.0	6.0	7.0	12.0	13.0	8.83	-	
Remarks										Remarks									

Station			C	:4			1			Station			S	R2]		
Time (hh:mm)			11:02	-11:05						Time (hh:mm)			10:32	-10:40					
Water Depth (m)			9.	40						Water Depth (m)			4.	30					
Monitoring Depth (m)	1	.20	4.	70	8.	00				Monitoring Depth (m)	0.	90			3.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.3	16.3	16.3	16.3	16.3	16.3	16.31	-		Water Temperature (°C)	16.4	16.4			16.3	16.4	16.38	-	
Salinity (ppt)	32.2	32.2	32.3	32.2	32.3	32.3	32.27	-		Salinity (ppt)	32.0	32.0			32.0	32.1	32.01	-	
pН	7.9	7.9	7.8	7.9	7.9	7.9	7.86			рН	7.9	8.0			7.8	8.0	7.92		
D.O. Saturation (%)	89.8	89.4	90.4	89.7	92.8	89.9	90.34	-		D.O. Saturation (%)	95.1	87.1			92.3	89.3	90.95	-	
D.O. (mg/L)	7.24	7.21	7.29	7.23	7.48	7.24	7.28	7.36	7.24	D.O. (mg/L)	7.67	7.02			7.45	7.19	7.33	7.32	7.35
Turbidity (NTU)	2.30	2.40	2.60	2.30	3.00	2.60	2.56	-		Turbidity (NTU)	6.50	6.10			5.70	6.40	6.19	-	
SS (mg/L)	3.0	5.0	4.0	3.0	3.0	5.0	3.83	-		SS (mg/L)	7.0	7.0			10.0	9.0	8.25	-	
Remarks										Remarks									

Station			0)2			1			Station			SI	R3			1		
Time (hh:mm)			10:51	-10:55						Time (hh:mm)			10:34	-10:38					
Water Depth (m)			8.	70						Water Depth (m)			13	.20					
Monitoring Depth (m)	0.	.80	4.	10	7.	00				Monitoring Depth (m)	1.	10	6.	60	12	.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.2	16.2	16.2	16.2	16.2	16.2	16.17	-		Water Temperature (°C)	16.9	16.9	16.2	16.5	16.2	16.2	16.47	-	
Salinity (ppt)	32.2	32.2	32.2	32.2	32.2	32.2	32.19	-		Salinity (ppt)	32.3	32.3	32.2	32.2	32.2	32.2	32.23	-	
рН	7.8	7.9	7.8	7.9	7.8	7.8	7.83			pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	90.7	90.0	90.7	90.4	94.8	93.0	91.61	-		D.O. Saturation (%)	89.0	87.7	91.1	89.6	93.4	89.0	89.96	-	
D.O. (mg/L)	7.33	7.28	7.33	7.31	7.67	7.52	7.41	7.60	7.31	D.O. (mg/L)	7.09	6.98	7.36	7.20	7.55	7.20	7.23	7.38	7.16
Turbidity (NTU)	3.90	2.40	4.60	3.90	4.80	4.20	3.97	-		Turbidity (NTU)	2.20	1.80	4.90	3.50	5.10	5.30	3.79	-	
SS (mg/L)	6.0	7.0	7.0	5.0	5.0	8.0	6.33	-		SS (mg/L)	3.0	2.0	7.0	5.0	6.0	8.0	5.17	-	
Remarks										Remarks									

Station			0	i1			1			Station			SI	R4			1		
Time (hh:mm)			10:17	-10:20						Time (hh:mm)			10:26	-10:30					
Water Depth (m)			12	.60						Water Depth (m)			14	.10					
Monitoring Depth (m)	1.	10	6.	00	11	.10				Monitoring Depth (m)	1.	00	6.	50	12	.10			
Trial	Trial 1	1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2					Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	17.0	17.0	17.0	17.0	17.0	17.0	16.99	-		Water Temperature (°C)	17.0	17.0	17.0	17.0	16.6	16.5	16.83	-	
Salinity (ppt)	32.4	32.4	32.4	32.4	32.4	32.4	32.38	-		Salinity (ppt)	32.4	32.4	32.4	32.4	32.2	32.3	32.33	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.81			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.81		
D.O. Saturation (%)	89.7	88.8	89.5	89.1	92.5	89.1	89.77	-		D.O. Saturation (%)	89.8	88.3	89.6	88.9	92.7	89.1	89.73	-	
D.O. (mg/L)	7.13	7.06	7.12	7.08	7.35	7.08	7.14	7.22	7.10	D.O. (mg/L)	7.14	7.02	7.13	7.07	7.43	7.15	7.16	7.29	7.09
Turbidity (NTU)	1.80	2.30	2.00	2.00	2.60	2.70	2.26	-		Turbidity (NTU)	1.60	1.50	1.80	1.70	2.10	3.30	2.02	-	
SS (mg/L)	3.0	4.0	5.0	3.0	3.0	4.0	3.67	-		SS (mg/L)	2.0	3.0	1.0	1.0	3.0	3.0	2.17	-	
Remarks										Remarks									

Sampling Date	02/02/2008
Weather & Ambient Temperature	Rainy, 11C

Station				2			1			Station	r –			10			1		
			L L	<i>,</i>									U	12					
Time (hh:mm)			21:04	-21:09						Time (hh:mm)			21:45	-21:49					
Water Depth (m)			12	.30						Water Depth (m)			9.	50					
Monitoring Depth (m)	1.	00	6.	10	11	.00				Monitoring Depth (m)	1.	10	4.	70	8.	10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	16.0	16.0	16.0	16.0	16.0	16.0	15.95	-		Water Temperature (°C)	15.7	15.7	15.6	15.5	15.5	15.5	15.57	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.31	-		Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.31	-	
рН	7.9	7.9	7.8	7.9	7.8	7.9	7.86			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90		
D.O. Saturation (%)	91.2	91.2	91.3	90.8	91.8	91.2	91.24	-		D.O. Saturation (%)	90.7	90.1	90.6	90.3	91.0	90.4	90.52	-	
D.O. (mg/L)	7.40	7.40	7.41	7.37	7.45	7.40	7.41	7.43	7.40	D.O. (mg/L)	7.40	7.34	7.41	7.39	7.46	7.41	7.40	7.44	7.39
Turbidity (NTU)	2.30	2.30	2.30	3.20	2.30	2.40	2.49	-		Turbidity (NTU)	4.70	4.00	4.90	5.70	5.30	5.40	4.97	-	
SS (mg/L)	7.0	6.0	4.0	5.0	6.0	4.0	5.33	-		SS (mg/L)	6.0	6.0	6.0	8.0	6.0	9.0	6.83	-	
Remarks										Remarks									

Station			(24						Station			SI	R2					
Time (hh:mm)			22:06	-22:11						Time (hh:mm)			21:22	-21:31					
Water Depth (m)			9.	.60						Water Depth (m)			4.:	20					
Monitoring Depth (m)	1.	.20	4.	.40	8	.00				Monitoring Depth (m)	1.	10			3.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	15.5	15.6	15.5	15.5	15.2	15.2	15.42	-		Water Temperature (°C)	15.3	15.3			15.3	15.3	15.32	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.31	-		Salinity (ppt)	32.0	32.1			32.1	32.1	32.05	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90			рН	8.0	8.0			7.9	8.0	7.98		
D.O. Saturation (%)	90.3	91.7	90.5	92.1	91.5	93.0	91.51	-		D.O. Saturation (%)	90.2	90.6			94.0	90.7	91.38	-	
D.O. (mg/L)	7.39	7.50	7.41	7.54	7.54	7.65	7.51	7.60	7.46	D.O. (mg/L)	7.43	7.46			7.74	7.47	7.53	7.61	7.45
Turbidity (NTU)	2.70	2.50	2.80	2.90	3.60	3.40	3.02	-		Turbidity (NTU)	1.20	4.80			4.90	5.10	4.02	-	
SS (mg/L)	4.0	3.0	4.0	4.0	4.0	6.0	4.17	-		SS (mg/L)	7.0	6.0			7.0	7.0	6.75	-	
Remarks										Remarks									

Station			C)2			1			Station			SI	R3					
Time (hh:mm)			21:55	-21:59						Time (hh:mm)			21:34	-21:39					
Water Depth (m)			8.	40						Water Depth (m)			13	.40					
Monitoring Depth (m)	0.	90	4.	00	6.	90				Monitoring Depth (m)	1.	10	6.	60	12	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	15.0	15.0	15.1	15.1	15.0	15.0	15.03	-		Water Temperature (°C)	15.7	15.7	15.6	15.7	15.4	15.5	15.61	-	
Salinity (ppt)	32.0	32.0	32.2	32.3	32.3	32.3	32.17	-		Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.30	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	92.7	92.5	92.5	92.8	93.5	93.1	92.85	-		D.O. Saturation (%)	90.2	90.2	90.5	90.5	90.8	91.0	90.52	-	
D.O. (mg/L)	7.69	7.67	7.64	7.67	7.72	7.70	7.68	7.71	7.67	D.O. (mg/L)	7.35	7.36	7.39	7.39	7.44	7.46	7.40	7.45	7.37
Turbidity (NTU)	4.60	4.10	4.70	4.60	5.10	4.60	4.58	-		Turbidity (NTU)	2.90	3.10	3.50	4.00	3.80	4.80	3.71	-	
SS (mg/L)	6.0	4.0	7.0	8.0	5.0	5.0	5.83	-		SS (mg/L)	6.0	5.0	6.0	8.0	8.0	8.0	6.83	-	
Remarks										Remarks									

Station			0	61]			Station			S	R4]		
Time (hh:mm)			21:17	-21:20						Time (hh:mm)			21:27	-21:30					
Water Depth (m)			13	.20						Water Depth (m)			14	.40					
Monitoring Depth (m)	1.	10	6.	50	12	.10				Monitoring Depth (m)	1.	.10	7.	10	13	3.10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&M
							averaged		Middle								averaged		iddle
Water Temperature (°C)	15.9	15.9	15.9	15.9	15.9	15.9	15.93	-		Water Temperature (°C)	15.8	15.7	15.7	15.7	15.7	15.7	15.72	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.34	-		Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.31	-	
pН	7.9	7.9	7.9	7.9	7.9	7.9	7.90			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	91.1	90.5	90.7	90.4	91.1	90.4	90.68	-		D.O. Saturation (%)	91.0	91.2	90.6	90.5	91.0	90.5	90.78	-	
D.O. (mg/L)	7.40	7.34	7.36	7.34	7.40	7.34	7.36	7.37	7.36	D.O. (mg/L)	7.41	7.44	7.38	7.38	7.42	7.37	7.40	7.40	7.40
Turbidity (NTU)	2.50	2.20	2.10	1.90	2.40	2.30	2.26	-		Turbidity (NTU)	2.70	2.90	2.80	3.00	3.50	3.20	3.05	-	
SS (mg/L)	4.0	4.0	3.0	3.0	4.0	3.0	3.50	-		SS (mg/L)	4.0	3.0	4.0	6.0	6.0	4.0	4.50	-	
Remarks										Remarks									

Mid-Ebb

Sampling Date	02/02/2008
Weather & Ambient Temperature	Rainy, 8C

Mid-Flood

Station			(3]			Station			U	2					
Time (hh:mm)			08:55	-08:58						Time (hh:mm)			09:30	-09:33					
Water Depth (m)			11	.70						Water Depth (m)			9.	00					
Monitoring Depth (m)	1.	00	5.	60	10	.00				Monitoring Depth (m)	1.	00	4.	30	8.	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	16.1	16.1	16.1	16.1	16.1	16.1	16.10	-		Water Temperature (°C)	15.3	15.4	15.3	15.4	15.2	15.3	15.31	-	
Salinity (ppt)	32.4	32.4	32.4	32.4	32.3	32.4	32.36	-		Salinity (ppt)	32.2	32.2	32.2	32.2	32.2	32.3	32.23	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.79			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.89		
D.O. Saturation (%)	91.2	90.6	91.5	90.5	94.0	90.6	91.40	-		D.O. Saturation (%)	91.3	90.5	91.0	90.6	91.6	90.9	90.98	-	
D.O. (mg/L)	7.38	7.34	7.40	7.32	7.60	7.33	7.40	7.47	7.36	D.O. (mg/L)	7.50	7.44	7.49	7.44	7.54	7.48	7.48	7.51	7.47
Turbidity (NTU)	3.70	2.90	3.60	3.70	3.70	3.20	3.50	-		Turbidity (NTU)	3.80	3.90	3.70	4.00	4.00	4.40	4.01	-	
SS (mg/L)	4.0	3.0	5.0	5.0	4.0	5.0	4.33	-		SS (mg/L)	4.0	6.0	5.0	4.0	4.0	5.0	4.67	-	
Remarks										Remarks									

Station			(24]			Station			S	R2]		
Time (hh:mm)			09:50	-09:53						Time (hh:mm)			09:47	-09:55					
Water Depth (m)			9	.70						Water Depth (m)			4.	20					
Monitoring Depth (m)	1.	.10	4	.70	8.	10				Monitoring Depth (m)	1.	20			3.	10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	15.7	15.7	15.6	15.7	15.6	15.6	15.62	-		Water Temperature (°C)	15.4	15.4			15.4	15.4	15.42	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.33	-		Salinity (ppt)	31.9	31.9			32.0	32.0	31.95	-	
рН	7.9	7.9	7.9	7.9	7.9	7.9	7.90			рН	7.9	7.9			7.9	7.9	7.90		
D.O. Saturation (%)	91.8	89.9	90.9	90.4	91.3	90.9	90.86	-		D.O. Saturation (%)	95.6	88.3			92.4	89.8	91.48	-	
D.O. (mg/L)	7.49	7.33	7.42	7.38	7.47	7.43	7.42	7.45	7.41	D.O. (mg/L)	7.86	7.26			7.59	7.38	7.52	7.49	7.56
Turbidity (NTU)	3.70	3.10	3.50	3.90	3.70	4.60	3.77	-		Turbidity (NTU)	2.70	2.60			4.00	4.60	3.46	-	
SS (mg/L)	7.0	7.0	5.0	7.0	7.0	5.0	6.33	-		SS (mg/L)	4.0	4.0			5.0	5.0	4.50	-	
Remarks										Remarks									

Station			D	2			1			Station			SI	२३			1		
Time (hh:mm)			09:40	-09:43						Time (hh:mm)			09:22·	-09:25					
Water Depth (m)			8.	40						Water Depth (m)			13	.40					
Monitoring Depth (m)	1.	.20	4.	00	6.	90				Monitoring Depth (m)	1.	00	6.	70	12	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	15.3	15.4	15.3	15.4	15.3	15.3	15.34	-		Water Temperature (°C)	15.3	15.6	15.3	15.3	15.3	15.3	15.33	-	
Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.28	-		Salinity (ppt)	32.3	32.3	32.3	32.2	32.3	32.3	32.28	-	
pН	7.9	7.9	7.9	7.9	7.9	7.9	7.89			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	91.3	91.2	91.5	92.1	91.8	92.2	91.69	-		D.O. Saturation (%)	91.8	90.5	92.0	90.9	92.6	91.0	91.48	-	
D.O. (mg/L)	7.50	7.48	7.52	7.56	7.55	7.59	7.53	7.57	7.52	D.O. (mg/L)	7.55	7.39	7.57	7.47	7.62	7.49	7.52	7.56	7.50
Turbidity (NTU)	3.80	3.70	4.20	3.70	4.60	5.60	4.28	-		Turbidity (NTU)	2.90	2.80	3.40	3.10	3.70	3.30	3.23	-	
SS (mg/L)	6.0	7.0	4.0	4.0	5.0	7.0	5.50	-		SS (mg/L)	4.0	4.0	5.0	3.0	4.0	4.0	4.00	-	
Remarks										Remarks									

Station			G	i1						Station			SI	R4					
Time (hh:mm)			09:04	-09:08						Time (hh:mm)			09:14	-09:17					
Water Depth (m)			12	.80						Water Depth (m)			13	.90					
Monitoring Depth (m)	1.	00	5.	60	11	.30				Monitoring Depth (m)	1.	00	6.	80	12	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom	Surface&
							averaged		Middle								averaged		Middle
Water Temperature (°C)	16.1	16.1	16.1	16.1	16.1	16.1	16.08	-		Water Temperature (°C)	15.9	15.9	15.9	15.9	15.8	15.9	15.86	-	
Salinity (ppt)	32.4	32.4	32.3	32.4	32.3	32.4	32.36	-		Salinity (ppt)	32.3	32.3	32.3	32.3	32.3	32.3	32.31	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.86			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	92.4	91.3	92.4	91.6	96.0	91.8	92.57	-		D.O. Saturation (%)	91.9	90.7	91.7	90.9	92.2	91.3	91.45	-	
D.O. (mg/L)	7.48	7.39	7.48	7.41	7.77	7.43	7.49	7.60	7.44	D.O. (mg/L)	7.46	7.37	7.46	7.38	7.50	7.42	7.43	7.46	7.42
Turbidity (NTU)	2.90	2.90	3.50	2.60	3.50	4.90	3.40	-		Turbidity (NTU)	2.60	2.60	3.00	2.60	3.50	2.80	2.88	-	
SS (mg/L)	6.0	5.0	4.0	5.0	6.0	6.0	5.33	-		SS (mg/L)	4.0	2.0	3.0	4.0	4.0	4.0	3.50	-	
Remarks										Remarks									