IMPACT MONITORING REPORT



CLP 🔂 中電

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

Thirtieth - Second Weekly Impact Monitoring Report -19th January to 25th January 2009

30th January 2009

Environmental Resources Management 21/F Lincoln House Taikoo Place 979 King's Road

Island East Hong Kong Telephone 2271 3000 Facsimile 2723 5660

www.erm.com



CLP Power

Proposed 132kV Submarine Cable Route for Airport "A" to Castle Peak Power Station Cable Circuit: *Thirtieth-Second Weekly Impact Monitoring Report – 19th January* 2009 to 25th January 2009

January 2009

Reference 0072833

For and on behalf of ERM-Hong Kong, Limited								
Approved by: Dr Robin Kennish								
Signed:	Robien Kenneth							
Position:	Director							
Date:	30 January 2009							

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

EXECUTIVE SUMMARY

EXECUTIVI	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	
	Reporting Week	4
2.4	PROJECT ORGANISATION	4
2.5	STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS	4
3	ENVIRONMENTAL MONITORING REQUIREMENT	6
3.1	MONITORING LOCATIONS	6
3.2	MONITORING PARAMETERS AND FREQUENCY	7
3.3	MONITORING EQUIPMENT AND METHODOLOGY	8
4	IMPLEMENTATION STATUS OF ENVIRONMENTAL	
	MITIGATION MEASURES	12
4.1	RECOMMENDED MITIGATION MEASURES	12
4.2	IMPLEMENTATION STATUS OF MITIGATION MEASURES	12
5	MONITORING RESULTS	14
5.1	IMPACT MONITORING RESULTS	14
5.2	DOLPHIN MONITORING	14
5.3	TIDAL FLOW DIRECTION MONITORING	14
6	ENVIRONMENTAL NON-CONFORMANCES	15
6.1	SUMMARY OF ENVIRONMENTAL EXCEEDANCE	15
6.2	SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE	15
6.3	SUMMARY OF ENVIRONMENTAL COMPLAINT	15
6.4	SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION	16
7	FUTURE KEY ISSUES	17
7.1	Key Issues For The Coming Weeks	17
7.2	MONITORING SCHEDULE FOR THE COMING WEEKS	17
8	REVIEW OF THE EM&A AND IMPACT ASSESSEMENT	
	PREDICTIONS	18
9	CONCLUSIONS	19

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 Tuen Mun
	Landing Site
Table 3.3	Action and Limit Levels for Water Quality for the Airport
	Landing Site
Table 3.4	Event and Action Plan for Water Quality
Table 6.1	Exceedances of the Action and Limit Levels of depth-averaged
	Turbidity (NTU) during Mid-ebb Tide on 24 January 2009

LIST OF ANNEXES

Annex A	Works Programme of the period between 18 January and 7
	February 2009

- 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 32nd weekly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 19 January to 25 January 2009 in accordance with the *EM&A Manual*.

Summary of Construction Works undertaken during the Reporting Period

During the reporting week (19 January and 25 January 2009), installation of concrete slabs was carried out at the Urmston Road from 19 January 2009 and completed on 22 January 2009. The marine plant was demobilised on 23 January 2009.

Water Quality

Six monitoring events were scheduled between 19 January and 25 January 2009 at the Airport and Tuen Mun landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 19 January, 21 January and 23 January 2009 at the Airport, and on 20 January, 22 January and 24 January 2009 at Tuen Mun.

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels. Besides, all measured Turbidity and Suspended Solids (SS) levels were below AL Levels with exception of 24 January 2009.

Environmental Non-conformance

Two exceedances of Action and Limit Levels were recorded on 24 January 2009. The exceedances were examined against the construction works. It was concluded that they were isolated cases and unlikely related to the Project.

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

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

Future Key Issues

As there will be no underwater works in the following weeks, the impact monitoring will be suspended and the post-project monitoring will take place in the week of 9 February 2009 once the Contractor confirms that no additional marine works will be required.

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 32nd weekly EM&A report, which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 19 January to 25 January 2009.

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*).

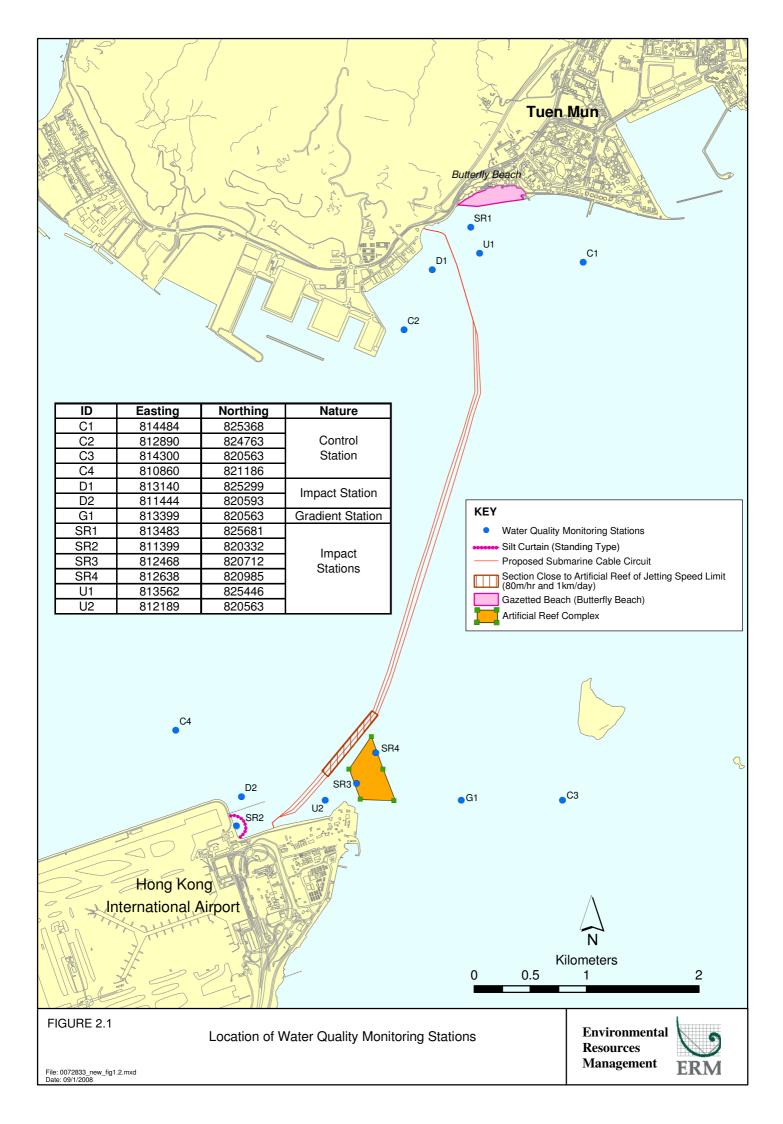
In September 2006, a Project Profile (PP) for the proposed 132kV Cable Route for Airport "A" to Castle Peak CCTS (thereinafter called the 'Project') was prepared and submitted to the Environmental Protection Department (EPD) under the *Environmental Impact Assessment Ordinance (EIAO)* for application 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 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*.



The marine works of the Project were initially completed on 13th June 2008 and fulfilled the burial requirement specified by the Marine Department (MD) that the cables have been buried to a depth of not less than 3 metres below the existing seabed. Water quality monitoring was conducted on three days for each landing site during the week of 16th June to 22nd June 2008 and then had been suspended since 23rd June 2008.

After the completion of the marine works of the Project, the Civil Engineering and Development Department (CEDD) requested the Contractor of the Project to install a protection layer such as concrete slabs on top of the buried cables at the shipping channel (ie Urmston Road).

Following the agreement between CLP and CEDD, the marine works of the Project have been resumed on 8 January 2009 for the installation of the concrete slabs at the Urmston Road. In view of the continuation of the marine works, the Impact Water Quality Monitoring has also been resumed on 6 January 2009.

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 (19 January and 25 January 2009), installation of concrete slabs was carried out at the Urmston Road from 19 January 2009 and completed on 22 January 2009. The marine plant was demobilised on 23 January 2009.

The works programme of the period between 19 January and 25 January 2009 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 construction period	submitted on 25 January 2007
Environmental Permit	EP-267/2007	Throughout the construction period	granted on 29 March 2007
Baseline Environmental Monitoring Report (Part A)	-	Throughout the construction period for Tuen Mun Section	approved by EPD on 8 November 2007
Baseline Environmental Monitoring Report (Part B)	-	Throughout the construction period for Airport Section	approved by EPD on 16 January 2008

ENVIRONMENTAL MONITORING REQUIREMENT

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*.

- C1 and C2 are Control Stations near the Tuen Mun landing site, which are not expected to be influenced by the construction works due to their remoteness from the construction works.
- U1 and D1 are Gradient Stations situated approximately 300 m either side of the cable alignment for monitoring the effect of dredging at the Tuen Mun landing point and for identifying the source of impact; and,
- SR1 is a Sensitive Receiver used to monitor the effect of the construction works on Butterfly Beach.
- 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*.

Station	Nature	Easting	Northing
C1	Control Station	814483	825367
C2	Control Station	812890	824763
C3	Control Station	814300	820563
C4	Control Station	810860	821186
U1	Impact Station	813561	825446
U2	Impact Station	812189	820563
D1	Impact Station	813140	825298
D2	Impact Station	811444	820593
SR1	Impact Station	813483	825681
SR2	Impact Station	811399	820332
SR3	Impact Station	812468	820712
SR4	Impact Station	812638	820985
G1	Gradient Station	813399	820563

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

3.2 MONITORING PARAMETERS AND FREQUENCY

The impact water quality monitoring was conducted in accordance with the requirements stated in the *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) (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.

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 13 locations (eight impact monitoring stations D1, D2, U1, U2, SR1, SR2, SR3 and SR4, one gradient station G1, and four control monitoring stations C1, C2, 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 0.5 m 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 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

Two sets of the Action and Limit levels, which were established based on the results of *Baseline Environmental Monitoring Part A* and *Part B*, are presented in *Tables 3.2* and *3.3* respectively.

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

Parameter	Unit	Tide	Depth	Action Level	Limit Level
Suspended	mg L-1	Mid-Ebb	Depth-averaged	12.8	13.3
Solids (SS)		Mid-Flood	Depth-averaged	23.6	28.3
Dissolved	mg L-1	Mid-Ebb	Surface and Middle	5.2	4.0
Oxygen (DO)			Bottom	5.3	2.0
		Mid-Flood	Surface and Middle	5.5	4.0
			Bottom	5.5	2.0
Turbidity	NTU	Mid-Ebb	Depth-averaged	7.0	8.3
		Mid-Flood	Depth-averaged	14.8	18.9

Table 3.3Action and Limit Levels for Water Quality for the Airport Landing Site

Parameter	Unit	Tide	Depth	Action Level	Limit Level
Suspended	mg L-1	Mid-Ebb	Depth-averaged	21.6	29.8
Solids (SS)		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 3.4*.

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 addition to the regulatory requirements as mentioned in *Section 4.1* above, the Contractor had implemented a precautionary measure for the works undertaken at the inshore area. As a precautionary measure, a silt curtain had been installed at the Airport seawater intake and five silt curtains had been installed at the five AR blocks along the direction facing the cable alignment during cable installation. The silt curtain at the Airport Intake was

removed on 16 June 2008, followed by removal of silt curtains at the artificial reefs from 17 June to 19 June 2008.

In addition, the cable laying works undertaken in the vicinity of the ARs were restricted to periods when the tidal current was moving away from the artificial reef towards the works area.

6.4 SUMMARY OF ENVIRONMENTAL SUMMONS AND PROSECUTION

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

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.

Six monitoring events were scheduled between 19 January and 25 January 2009 at the Airport and Tuen Mun landing sites. All monitoring events at all designated monitoring stations were performed on schedule, ie on 19 January, 21 January and 23 January 2009 at the Airport, and on 20 January, 22 January and 24 January 2009 at Tuen Mun.

No major activities influencing the water quality were identified between 19 January and 25 January 2009.

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels. Besides, all measured Turbidity and Suspended Solids (SS) levels were below AL Levels with exception of 24 January 2009 (*Annex E*).

5.2 DOLPHIN MONITORING

The Contractor confirmed that all jetting operations were completed on 23 April 2008. Hence, dolphin monitoring was not required during the reporting week.

5.3 TIDAL FLOW DIRECTION MONITORING

The Contractor confirmed that all jetting operations were completed on 23 April 2008 and therefore, no current flow data were reported.

ENVIRONMENTAL NON-CONFORMANCES

6.1 SUMMARY OF ENVIRONMENTAL EXCEEDANCE

6.1.1 Exceedance on 24 January 2009

6

Exceedances of the Action and Limit Levels of depth-averaged Turbidity (NTU) were recorded at Stations D1 and SR1 during mid-ebb tide on 24 January 2009 (*Table 6.1* and *Figure 6.1*).

Table 6.1Exceedances of the Action and Limit Levels of depth-averaged Turbidity
(NTU) during Mid-ebb Tide on 24 January 2009

Exceedance Log No.	0072833_24	January 09_Turb_E_Station D1								
	0072833_24	January 09_Turb_E_Station SR	1							
Sampling date	24 January	4 January 2009								
Monitoring station	D1 and U1	D1 and U1								
Parameter	Depth-aver	Depth-averaged Turbidity (NTU)								
Action Levels	Mid-ebb	Turbidity, Depth-averaged =	7.0							
	Mid-flood	Turbidity, Depth-averaged =	14.8							
Limit Levels	Mid-ebb	Turbidity, Depth-averaged =	8.3							
	Mid-flood	Turbidity, Depth-averaged =	18.9							
Measured Levels at D1	Mid-ebb	Turbidity, Depth-averaged =	8.37	(exceeds Limit Level)						
	Mid-flood	Turbidity, Depth-averaged =	2.68							
Measured Levels at SR1	Mid-ebb	Turbidity, Depth-averaged =	9.79	(exceeds Limit Level)						
	Mid-flood	Turbidity, Depth-averaged =	2.87							

According to the work programme provided by the Contractor (*Annex A*), the Contractor confirmed that the marine plant was demobilised on 23 January 2009 and no construction works were undertaken on 24 January 2009.

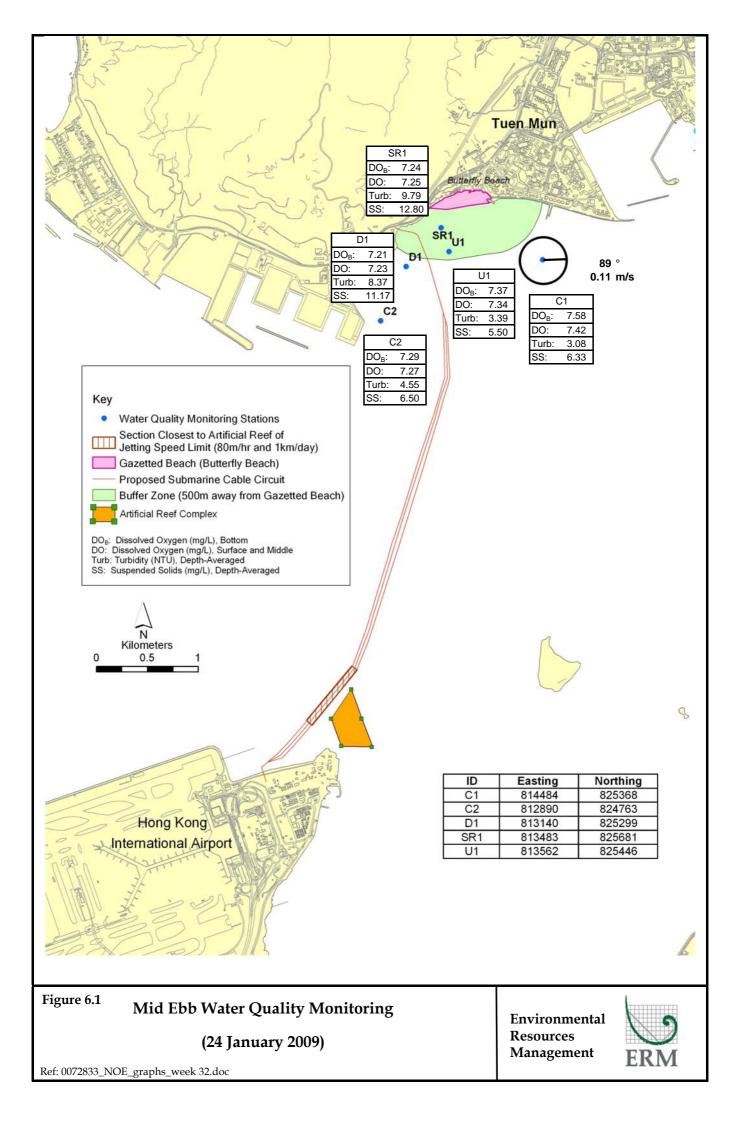
Persist occurrence of exceedance was not observed as turbidity of all Impact Stations did not show non-compliance during the following mid-flood tidal conditions. Hence, the exceedances were unlikely to be caused by the Project works and therefore considered to be an isolated case. No action was required. The exceedance incident has been notified to EPD and LCSD.

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.



7 FUTURE KEY ISSUES

7.1 KEY ISSUES FOR THE COMING WEEKS

As there will be no underwater works in the following weeks, the impact monitoring will be suspended and the post-project monitoring will take place in the week of 9 February 2009 once the Contractor confirms that no additional marine works will be required.

The expected construction programme is enclosed in *Annex A*.

7.2 MONITORING SCHEDULE FOR THE COMING WEEKS

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

The Contractor confirmed that all jetting operations were completed on 23 April 2008. Since there were no jetting operations at the Project site during the reporting week, it was not necessary to compare the monitoring data with the impact assessment predictions in the Project Profile.

18

This Weekly Impact Monitoring Report presents the EM&A works undertaken during the period from 19 January to 25 January 2009 in accordance with the EM&A Manual and the requirements under *EP-267/2007*.

All measured dissolved oxygen levels complied with the Action and Limit (AL) Levels. Besides, all measured Turbidity and Suspended Solids (SS) levels were below AL Levels with exception of 24 January 2009. The exceedances were examined against the construction works. It was concluded that they were isolated cases and unlikely related to the Project.

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.

9

Annex A

Works Programme of the Period between 18 January 2009 and 7 February 2009

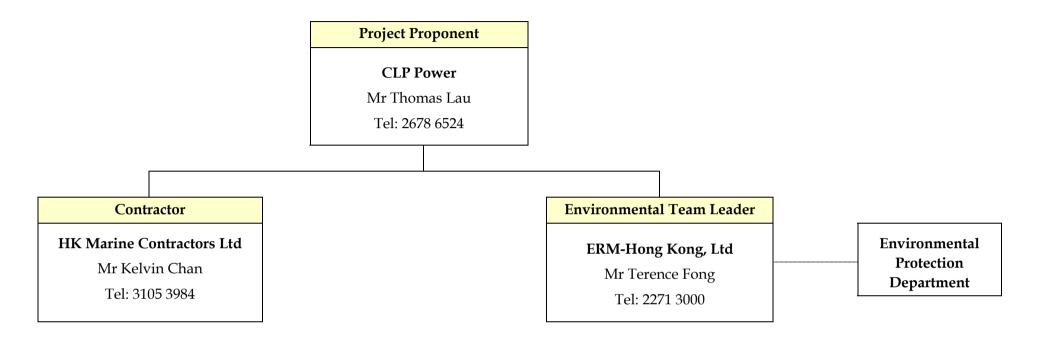
<u>Annex A</u> <u>Marine Work of 132kV Submarine Cable Installation between Airport to Tuen Mun</u> (Concrete Slabs Installation at Urmston Road)

			Workdone for Last Week			Plan for This Week							Anticipate Plan for Next Week									
	Item Date	18/1	19/1	20/1	21/1	22/1	23/1	24/1	25/1	26/1	27/1	28/1	29/1	30/1	31/1	1/2	2/2	3/2	4/2	5/2	6/2	7/2
1	Mobilization of Marine Plants																					
2	Installation of Concrete Slabs																					
3	Transfer of Concrete Slabs																					
4	Demobilisation of Plants																					

Prepared by: Hong Kong Marine Contractors Ltd. Ref. No. MCERM-132AIRPORTTM-00301-09 Date: 24/01/2009 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 2009 Concrete Slabs Installation at Urmston Road

Reference Tidal Station: Lo	ok On Pai (s	ource: HK Obs	ervatory Dep	partment)							as of 22 Ja	nuary 2009
Sunday	Mo	onday	Tu	esday	Wed	nesday	Thu	ursday	F	riday	Sat	turday
								1-Jan		2-Jan		3-Jan
4-Jan		5-Jan		6-Jan		7-Jan		8-Jan		9-Jan		10-Jan
			Mid-Ebb	7:18			Mid-Ebb	10:14			Mid-Ebb	12:17
			Mid-Flood	13:33			Mid-Flood	15:14			Mid-Flood	17:15
				Monitoring				Monitoring				Monitoring
			(Tue	en Mun)			(Tue	en Mun)			(Tue	en Mun)
11-Jan		12-Jan		13-Jan		14-Jan		15-Jan		16-Jan		17-Jan
	Mid-Ebb	13:55	Mid-Ebb	14:39	Mid-Flood	10:00	Mid-Flood	10:35	Mid-Flood	11:07	Mid-Flood	11:38
	Mid-Flood	19:07	Mid-Flood	19:58	Mid-Ebb	15:22	Mid-Ebb	16:06	Mid-Ebb	16:52	Mid-Ebb	17:49
	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring
	(A	irport)	(Tue	en Mun)	(A	irport)	(Tue	en Mun)	(A	irport)	(Tue	en Mun)
18-Jan		19-Jan		20-Jan		21-Jan		22-Jan		23-Jan		24-Jan
	Mid-Flood	12:36	Mid-Flood	9:06	Mid-Flood	10:15	Mid-Flood	10:58	Mid-Flood	15:55	Mid-Ebb	12:06
	Mid-Ebb	20:40	Mid-Ebb	21:48	Mid-Ebb	22:34	Mid-Ebb	23:14	Mid-Ebb	23:52	Mid-Flood	16:53
	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring	Impact	Monitoring
	(A	irport)	(Tue	en Mun)	(A	irport)	(Tue	en Mun)	(A	irport)	(Tue	en Mun)
25-Jan		26-Jan		27-Jan		28-Jan		29-Jan		30-Jan		31-Jan
	Chinese Ne	w Year	Chinese Ne	ew Year	Chinese Ne	w Year						
							No marine	works to be a	arried out a	at both the Tue	en Mun and	Airport sides
								and hence	no impact	water quality i	monitoring	
											•	

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 2009

Reference Tidal Station: Lo	ok On Pai (source: HK O	oservatory Department)				as of 22 January 2009
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Feb	2-F	eb 3-Feb	o 4-Feb	5-Feb	6-Feb	7-Feb
	No ma	ine works to be carried out	t at both the Tuen Mun and	d Airport sides and hence	no impact water quality n	nonitoring
8-Feb	9-F	eb 10-Feb	11-Feb	12-Feb	13-Feb	14-Feb
	Mid-Ebb 12:58	Mid-Flood 8:12	Mid-Flood 8:42	Mid-Flood 9:09	Mid-Ebb 9:32	Mid-Flood 9:54
	Mid-Flood 18:20	Mid-Ebb 13:38	Mid-Ebb 14:15	Mid-Ebb 14:50	Mid-Flood 15:24	Mid-Ebb 16:03
	Post-project Monitoring (Airport)	Post-project Monitoring (Tuen Mun)	Post-project Monitoring (Airport)	Post-project Monitoring (Tuen Mun)	Post-project Monitoring (Airport)	Post-project Monitoring (Tuen Mun)
15-Feb	16-F	eb 17-Feb	0 18-Feb) 19-Feb	20-Feb	21-Feb
22-Feb	23-F	eb 24-Fet	25-Feb	26-Feb	27-Feb	28-Feb

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

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	: ERM HONG KONG	Laboratory	ALS Technichem HK Pty Ltd	Page	∴ 1 of 9
Contact	🖞 MS JOANNA KWAN	Contact	🕐 Wong Wai Man, Alice	Work Order	HK0901193
Address	21/F, LINCOLN HOUSE, 979 KING'S ROAD,	Address	11/F., Chung Shun Knitting Centre,		
	TAIKOO PLACE, ISLAND EAST,		1 - 3 Wing Yip Street,		
	QUARRY BAY, HONG KONG		Kwai Chung, N.T., Hong Kong		
E-mail	∵ Joanna.kwan@erm.com	E-mail	☆ Alice.Wong@alsenviro.com		
Telephone	· +852 2271 3000	Telephone	÷ +852 2610 1044		
Facsimile	: +852 2723 5660	Facsimile	÷ +852 2610 2021		
Project	: EM&A FOR THE PROPOSED 132kV	Quote number	<u>;</u>	Date received	: 20-JAN-2009
	SUBMARINE CABLE ROUTE FOR AIRPORT "A"				
	TO CASTLE PEAK CCTS				
Order number	<u>;</u>			Date of issue	22-JAN-2009
C-O-C number	:			No. of samples	- Received : 96
Site	:				- Analysed : 96

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901193 supersedes any previous reports with this reference. The completion date of analysis is 21-JAN-2009. 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 HK0901193 : Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance'						
	of Hong Kong. Chapter 553. Section 6. Signatory	Position	Authorised results for:-				
	Fung Lim Chee, Richard	General Manager	Inorganics				

A Campbell Brothers Limited Company

Page Number:8 of 9Client:ERM HONG KONGWork OrderHK0901193



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 869878)							
HK0901193-001	2009/01/19/2206/C4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
HK0901193-011	2009/01/19/2122/SR3/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 869879)							
HK0901193-021	2009/01/19/2149/D2/T/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
HK0901193-031	2009/01/19/2111/SR4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	9	9	0.0	
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 869880)							
HK0901193-042	2009/01/19/2056/G1/T/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0	
HK0901193-051	2009/01/19/1331/C4/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 869881)							
HK0901193-061	2009/01/19/1257/U2/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	15	15	0.0	
HK0901193-071	2009/01/19/1321/D2/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 869882)							
HK0901193-081	2009/01/19/1238/SR4/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	3	3	0.0	
HK0901193-091	2009/01/19/1308/SR2/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	

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

Matrix: WATER			Method Blank (M	B) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Du				olicate (DCS) Report	
					Spike	Spike Re	ecovery (%)	Recovery Limits (%) R	PDs (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low High	Value	Control Limit
EA/ED: Physical and Aggregate Propertie	es (QCLot: 869878)									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85 115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 869879)									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85 115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 869880)									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85 115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 869881)									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85 115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 869882)									
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	108		85 115		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	ERM HONG KONG	Laboratory	ALS Technichem HK Pty Ltd	Page	: 1 of 6
Contact	🖞 MS JOANNA KWAN	Contact	: Wong Wai Man, Alice	Work Order	HK0901257
Address	21/F, LINCOLN HOUSE, 979 KING`S ROAD,	Address	2 11/F., Chung Shun Knitting Centre,		
	TAIKOO PLACE, ISLAND EAST,		1 - 3 Wing Yip Street,		
	QUARRY BAY, HONG KONG		Kwai Chung, N.T., Hong Kong		
E-mail	∵ Joanna.kwan@erm.com	E-mail	Alice.Wong@alsenviro.com		
Telephone	· +852 2271 3000	Telephone	÷ +852 2610 1044		
Facsimile	÷ +852 2723 5660	Facsimile	÷ +852 2610 2021		
Project	: EM&A FOR THE PROPOSED 132kV	Quote number	<u>·</u>	Date received	: 21-JAN-2009
	SUBMARINE CABLE ROUTE FOR AIRPORT "A"				
	TO CASTLE PEAK CCTS				
Order number	:			Date of issue	23-JAN-2009
C-O-C number	;			No. of samples	- Received : 60
Site	:				- Analysed : 60

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901257 supersedes any previous reports with this reference. The completion date of analysis is 21-JAN-2009. 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 HK0901257 : Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the 'Electronic Transactions Ordinance'					
	of Hong Kong, Chapter 553, Section 6. Signatory	Position	Authorised results for:-			
	Fung Lim Chee, Richard	General Manager	Inorganics			

A Campbell Brothers Limited Company



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 869887)								
HK0901257-001	2009/01/20/2142/C1/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0		
HK0901257-011	2009/01/20/2208/SR1/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 869888)								
HK0901257-021	2009/01/20/2223/D1/T/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0		
HK0901257-031	2009/01/20/0906/C1/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 869889)								
HK0901257-041	2009/01/20/0936/SR1/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	7	7	0.0		
HK0901257-051	2009/01/20/0943/D1/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		

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

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD)s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 869887)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.5		85	115		
EA/ED: Physical and Aggregate Properties (QC	Lot: 869888)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	90.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 869889)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	103		85	115		

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client Contact Address	 ERM HONG KONG MS JOANNA KWAN 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, 	Laboratory Contact Address	 ALS Technichem HK Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, 	Page Work Order	 1 of 9 HK0901342
E-mail	QUARRY BAY, HONG KONG ý Joanna.kwan@erm.com	E-mail	Kwai Chung, N.T., Hong Kong Alice.Wong@alsenviro.com		
Telephone	: +852 2271 3000	Telephone	2 +852 2610 1044		
Facsimile	± +852 2723 5660	Facsimile	· +852 2610 2021		
Project	EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Quote number	<u>;</u>	Date received	: 22-JAN-2009
Order number	<u>;</u>			Date of issue	29-JAN-2009
C-O-C number	<u>:</u>			No. of samples	- Received : 96
Site	:				- Analysed : 96

Report Comments

Specific comments for Work Order HK0901342 :

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901342 supersedes any previous reports with this reference. The completion date of analysis is 23-JAN-2009. 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.

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

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those name Electronic signing has been carried out in compliance with p		0
	of Hong Kong, Chapter 553, Section 6. Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

A Campbell Brothers Limited Company

Page Number:8 of 9Client:ERM HONG KONGWork OrderHK0901342



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 871854)							
HK0901342-001	2009/01/21/0004/C4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0	
HK0901342-011	2009/01/21/2310/SR3/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	8	7	0.0	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 871855)							
HK0901342-021	2009/01/21/2333/D2/T/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	2	2	0.0	
HK0901342-031	2009/01/21/2258/SR4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	10	8	17.8	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 871856)							
HK0901342-041	2009/01/21/2250/G1/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0	
HK0901342-051	2009/01/21/1045/C4/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 871857)							
HK0901342-061	2009/01/21/1014/U2/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0	
HK0901342-071	2009/01/21/1038/D2/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0	
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 871858)							
HK0901342-081	2009/01/21/1236/SR4/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	4	3	0.0	
HK0901342-092	2009/01/21/1027/SR2/M/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0	

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

Matrix: WATER			Method Blank (M	B) Report	Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Re	ecovery (%)	Recovery Limit	; (%)	RPDs (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low H	gh Vá	alue Control Limit	
EA/ED: Physical and Aggregate Propertie	es (QCLot: 871854)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	102		85 1	15 -		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 871855)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	110		85 1	15 -		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 871856)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85 1	15 -		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 871857)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	94.5		85 1	15 -		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 871858)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85 1	15 -		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client Contact	∶ERM HONG KONG ∶MS JOANNA KWAN	Laboratory Contact	 ALS Technichem HK Pty Ltd Wong Wai Man, Alice 	Page Work Order	∶ 1 of 6 · HK0901404
Address	21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG	Address	 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong 		11(0301404
E-mail	: Joanna.kwan@erm.com	E-mail	∴ Alice.Wong@alsenviro.com		
Telephone	: +852 2271 3000	Telephone	: +852 2610 1044		
Facsimile	: +852 2723 5660	Facsimile	÷ +852 2610 2021		
Project	: EM&A FOR THE PROPOSED 132kV SUBMARINE CABLE ROUTE FOR AIRPORT "A" TO CASTLE PEAK CCTS	Quote number	:	Date received	: 23-JAN-2009
Order number	<u>:</u>			Date of issue	29-JAN-2009
C-O-C number	:			No. of samples	- Received : 60
Site	:				- Analysed : 60

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901404 supersedes any previous reports with this reference. The completion date of analysis is 24-JAN-2009. 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 HK0901404 : Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those name Electronic signing has been carried out in compliance with p		0
	of Hong Kong, Chapter 553, Section 6. Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

A Campbell Brothers Limited Company



Laboratory Duplicate (DUP) Report

Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 872540)								
HK0901404-001	2009/01/22/1100/C1/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0		
HK0901404-011	2009/01/22/1120/SR1/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 872541)								
HK0901404-021	2009/01/22/1127/D1/T/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0		
HK0901404-032	2009/01/22/2318/C1/M/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 872542)								
HK0901404-041	2009/01/22/2341/SR1/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0		
HK0901404-051	2009/01/22/2348/D1/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	7	6	0.0		

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

Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD)s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (Q	CLot: 872540)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	96.0		85	115		
EA/ED: Physical and Aggregate Properties (Q	CLot: 872541)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	99.5		85	115		
EA/ED: Physical and Aggregate Properties (QCLot: 872542)											
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		

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

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	ERM HONG KONG	Laboratory	: ALS Technichem HK Pty Ltd	Page	∴ 1 of 9	
Contact	🖞 MS JOANNA KWAN	Contact	∑ Wong Wai Man, Alice	Work Order	HK0901500	
Address	21/F, LINCOLN HOUSE, 979 KING`S ROAD,	Address	2 11/F., Chung Shun Knitting Centre,			
	TAIKOO PLACE, ISLAND EAST,		1 - 3 Wing Yip Street,			
	QUARRY BAY, HONG KONG		Kwai Chung, N.T., Hong Kong			
E-mail	∵ Joanna.kwan@erm.com	E-mail	Alice.Wong@alsenviro.com			
Telephone	± +852 2271 3000	Telephone	÷ +852 2610 1044			
Facsimile	÷ +852 2723 5660	Facsimile	÷ +852 2610 2021			
Project	: EM&A FOR THE PROPOSED 132kV	Quote number	<u>;</u>	Date received	24-JAN-2009	
	SUBMARINE CABLE ROUTE FOR AIRPORT "A"					
	TO CASTLE PEAK CCTS					
Order number	<u>:</u>			Date of issue	: 30-JAN-2009	
C-O-C number	:			No. of samples	- Received : 9	96
Site	:				- Analysed : 9	96

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901500 supersedes any previous reports with this reference. The completion date of analysis is 29-JAN-2009. 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 HK0901500 : Sample(s) were received in a chilled condition. Water sample(s) analysed and reported on an as received basis.

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those nam Electronic signing has been carried out in compliance with p		0
	of Hong Kong, Chapter 553, Section 6. Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

A Campbell Brothers Limited Company

Page Number:8 of 9Client:ERM HONG KONGWork OrderHK0901500



Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	oratory Duplicate (DUP)	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 876114)						
HK0901500-001	2009/01/23/0046/C4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
HK0901500-011	2009/01/23/0011/SR3/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 876115)						
HK0901500-023	2009/01/23/0039/D2/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	6	7	22.8
HK0901500-031	2009/01/23/0000/SR4/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	10	10	0.0
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 876116)						
HK0901500-041	2009/01/23/2353/G1/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
HK0901500-052	2009/01/23/1640/C4/B/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	14	13	0.0
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 876117)						
HK0901500-061	2009/01/23/1607/U2/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	13	14	0.0
HK0901500-071	2009/01/23/1631/D2/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	6	5	0.0
EA/ED: Physical and	d Aggregate Properties (QC	Lot: 876118)						
HK0901500-081	2009/01/23/1553/SR4/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0901500-091	2009/01/23/1616/SR2/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	9	8	0.0

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

Matrix: WATER			Method Blank (M	B) Report		Laboratory Control S	Spike (LCS) and Labo	ratory Control S	pike Duplicat	e (DCS) Report	
					Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPDs	; (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Propertie	es (QCLot: 876114)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	106		85	115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 876115)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 876116)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	98.5		85	115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 876117)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		
EA/ED: Physical and Aggregate Propertie	es (QCLot: 876118)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	101		85	115		

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

Client	∑ ERM HONG KONG ∑ MS JOANNA KWAN	Laboratory	ALS Technichem HK Pty Ltd Wong Wai Man, Alice	Page Work Order	: 1 of 6	
Contact Address	21/F, LINCOLN HOUSE, 979 KING`S ROAD,	Contact Address	 ∠ 11/F., Chung Shun Knitting Centre, 	Work Order	HK0901608	
	TAIKOO PLACE, ISLAND EAST,		1 - 3 Wing Yip Street,			
	QUARRY BAY, HONG KONG		Kwai Chung, N.T., Hong Kong			
E-mail	∵ Joanna.kwan@erm.com	E-mail	Alice.Wong@alsenviro.com			
Telephone	· +852 2271 3000	Telephone	<u>∶</u> +852 2610 1044			
Facsimile	: +852 2723 5660	Facsimile	÷ +852 2610 2021			
Project	: EM&A FOR THE PROPOSED 132kV	Quote number	:	Date received	29-JAN-2009	
	SUBMARINE CABLE ROUTE FOR AIRPORT "A"					
	TO CASTLE PEAK CCTS					
Order number	:			Date of issue	: 30-JAN-2009	
C-O-C number	<u>:</u>			No. of samples	- Received :	60
Site	<u>;</u>				- Analysed :	60

Report Comments

Specific comments for Work Order HK0901608 :

This report for ALS Technichem (HK) Pty Ltd work order reference HK0901608 supersedes any previous reports with this reference. The completion date of analysis is 29-JAN-2009. 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.

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

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.	This document has been electronically signed by those nam Electronic signing has been carried out in compliance with p		0
	of Hong Kong, Chapter 553, Section 6. Signatory	Position	Authorised results for:-
	Fung Lim Chee, Richard	General Manager	Inorganics

A Campbell Brothers Limited Company



Laboratory Duplicate (DUP) Report

Matrix: WATER					La	boratory Duplicate (DUP) I	Report	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 876750)						
HK0901608-001	2009/01/24/1204/C1/B/E/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	8	8	0.0
HK0901608-011	2009/01/24/1225/SR1/M/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	14	13	0.0
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 876751)						
HK0901608-022	2009/01/24/1234/D1/B/E/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	13	12	9.3
HK0901608-031	2009/01/24/1702/C1/B/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	5	5	0.0
EA/ED: Physical an	d Aggregate Properties (QC	Lot: 876752)						
HK0901608-041	2009/01/24/1727/SR1/M/F/ REPL.2	EA025: Suspended Solids (SS)		1	mg/L	6	6	0.0
HK0901608-051	2009/01/24/1735/D1/T/F/ REPL.1	EA025: Suspended Solids (SS)		1	mg/L	4	4	0.0

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

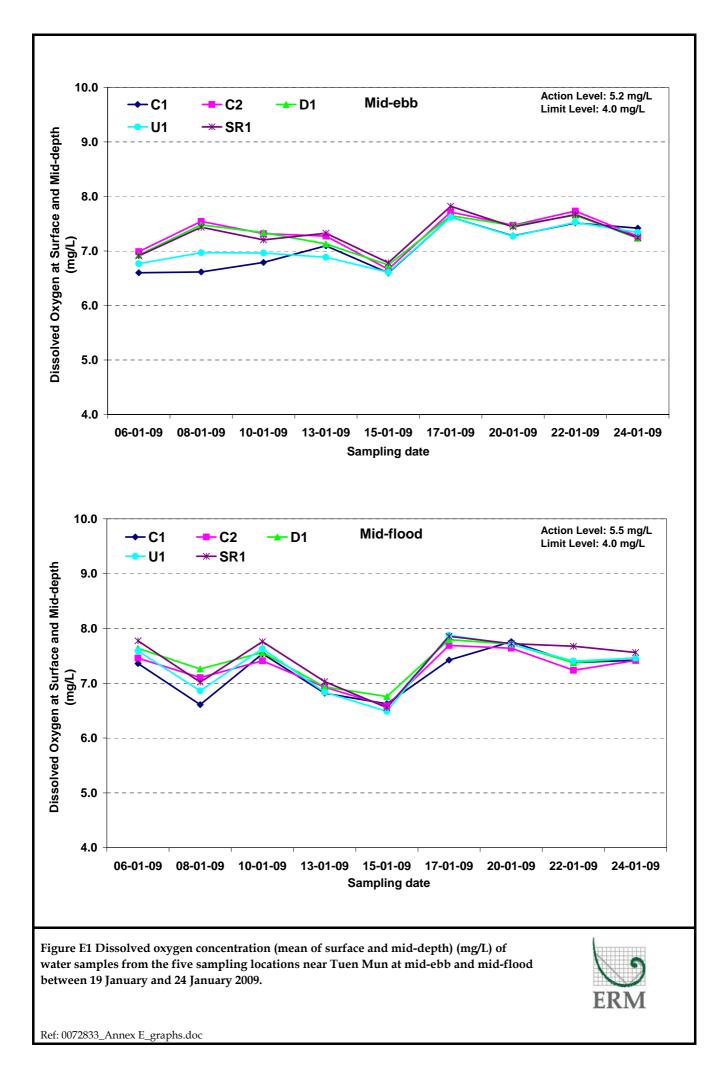
Matrix: WATER			Method Blank (ME	B) Report		Laboratory Control S	Spike (LCS) and Laborate	ory Control S	Spike Duplica	te (DCS) Report	
					Spike	Spike Red	covery (%)	Recovery	Limits (%)	RPD	s (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (C	QCLot: 876750)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		
EA/ED: Physical and Aggregate Properties (C	QCLot: 876751)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	104		85	115		
EA/ED: Physical and Aggregate Properties (0	QCLot: 876752)										
EA025: Suspended Solids (SS)		2	mg/L	<2	20 mg/L	100		85	115		

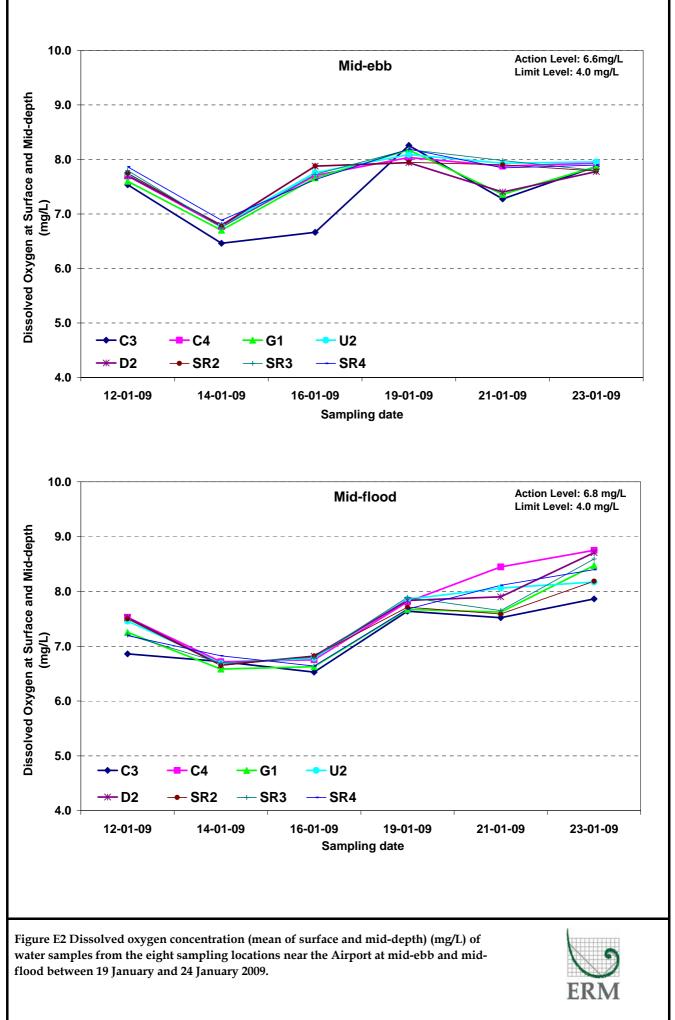
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.

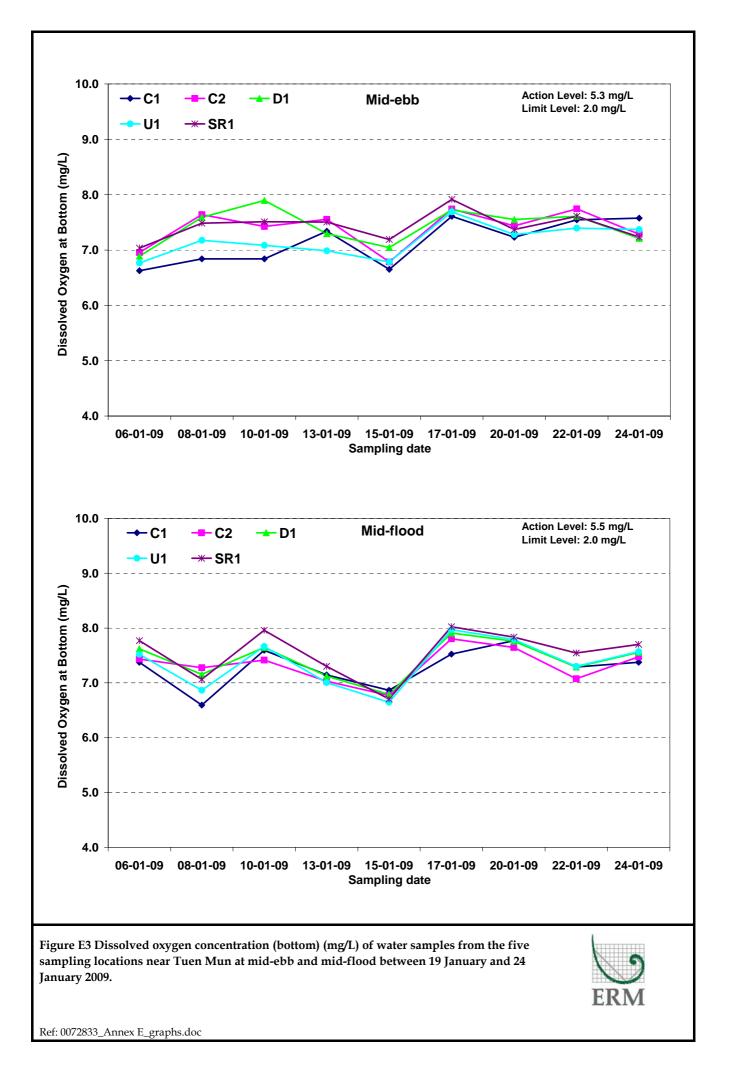
Annex E

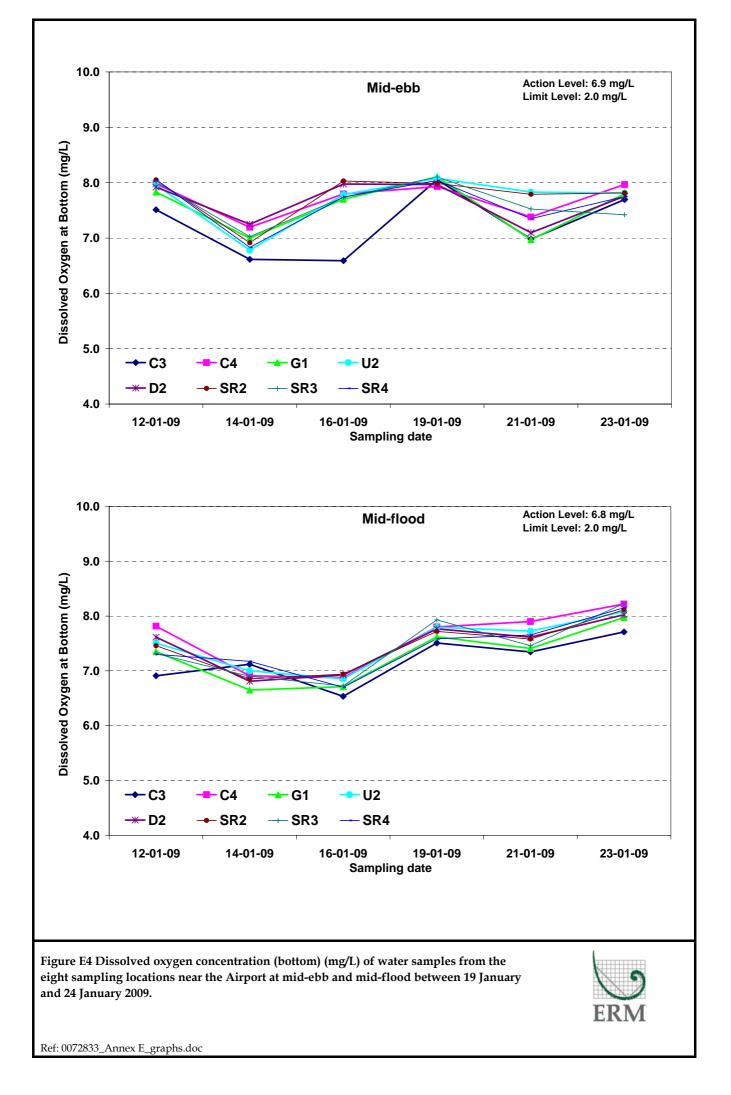
Impact Water Quality Monitoring Results

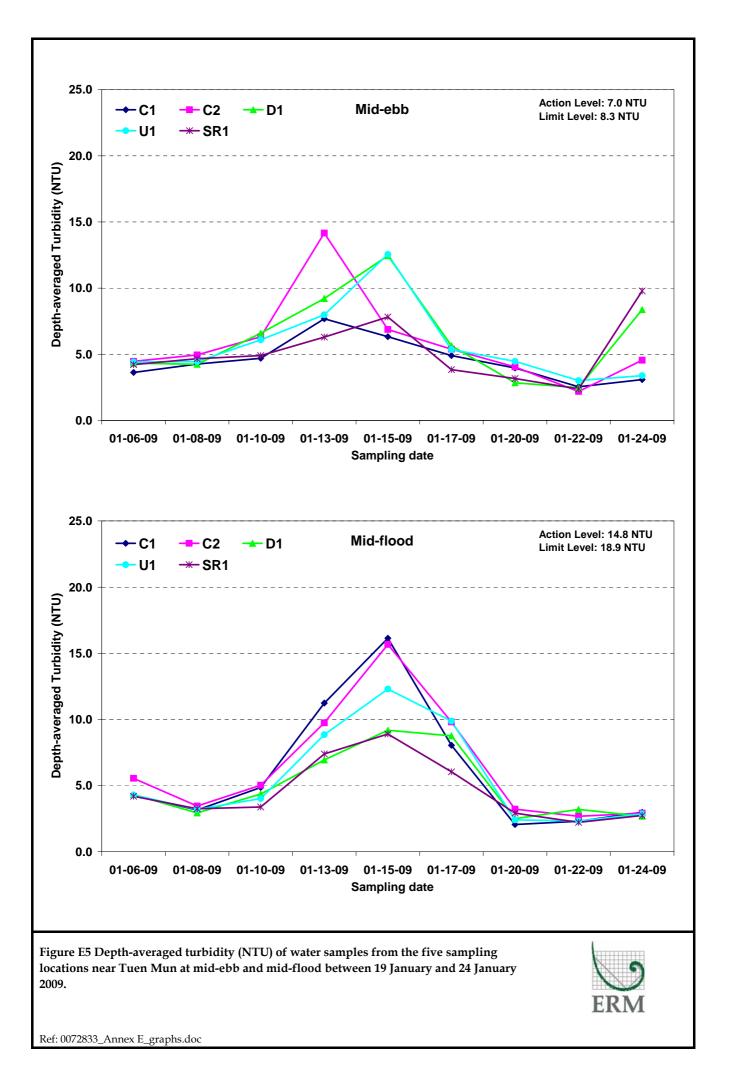


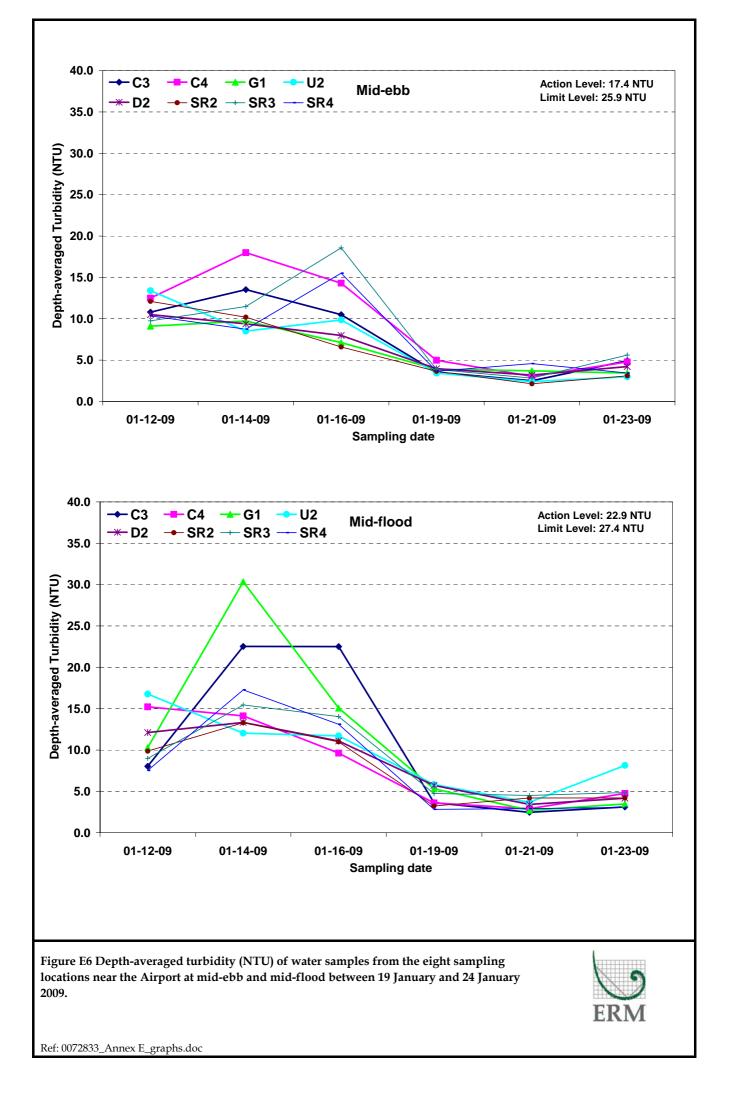


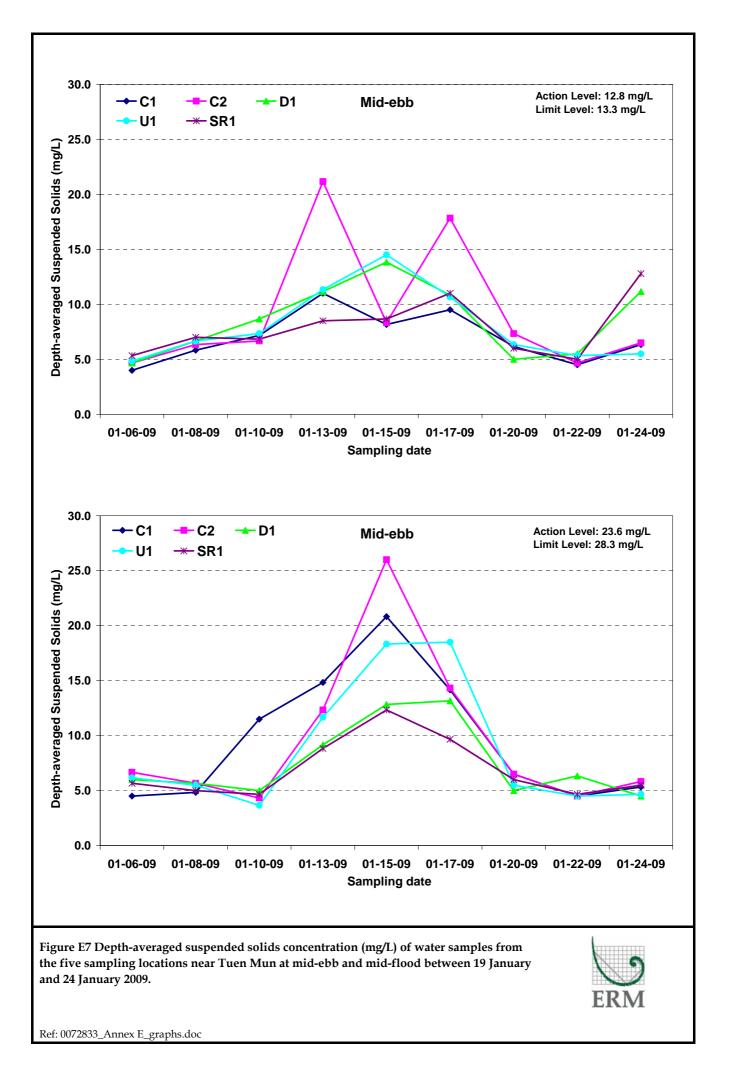
Ref: 0072833_Annex E_graphs.doc

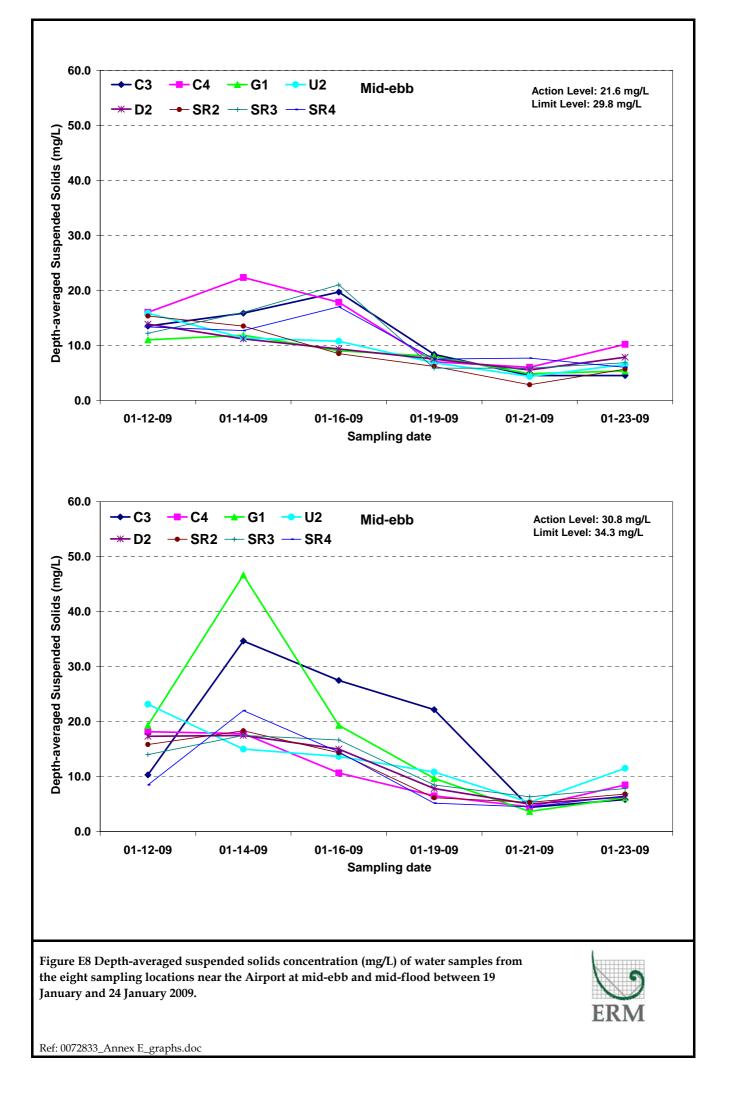












Annex E1 - Water Quality Results at Airport during mid-ebb tide for 19 January 2009

Sampling Date	1/19/2009
Weather & Ambient Temperature	Fine

Mid-Ebb

Station			(23			1			Station			U	2			1		
Time (hh:mm)			20:38	8-20:45						Time (hh:mm)			21:27	-21:31					
Water Depth (m)			12	2.20						Water Depth (m)			8.	10					
Monitoring Depth (m)	1.	20	6.	.10	11	.20				Monitoring Depth (m)	1.	10	4.	00	7.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	16.8	16.9	16.9	16.9	16.8	16.8	16.83	-		Water Temperature (°C)	16.8	16.8	16.8	16.8	16.9	16.9	16.84	-	
Salinity (ppt)	32.7	32.8	33.0	33.0	33.1	33.2	32.96	-		Salinity (ppt)	32.6	32.6	32.7	32.7	32.8	32.8	32.67	-	
pH	7.8	7.9	7.8	7.9	7.8	7.9	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	104.4	104.9	103.6	102.9	101.3	101.4	103.08	-		D.O. Saturation (%)	101.8	101.8	101.3	101.3	101.5	101.8	101.59	-	
D.O. (mg/L)	8.31	8.34	8.22	8.16	8.05	8.06	8.19	8.06	8.26	D.O. (mg/L)	8.11	8.11	8.07	8.07	8.07	8.09	8.09	8.08	8.09
Turbidity (NTU)	2.70	2.80	2.90	3.50	4.40	4.70	3.52	-		Turbidity (NTU)	3.10	3.20	3.60	3.50	3.90	3.10	3.42	-	
SS (mg/L)	8.0	8.0	6.0	6.0	12.0	10.0	8.33	-		SS (mg/L)	7.0	7.0	5.0	6.0	9.0	7.0	6.83	-	
Remarks										Remarks									

Station			C	:4			1			Station			S	R2			1		
Time (hh:mm)			22:06	-22:11						Time (hh:mm)			21:39	-21:42					
Water Depth (m)			8.	90						Water Depth (m)			5.	00					
Monitoring Depth (m)	1.	10	4.	80	7.	80				Monitoring Depth (m)	1.	.10	2.	40	4.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.8	16.8	16.85	-		Water Temperature (°C)	17.1	17.1	17.1	17.1	17.1	17.0	17.07	-	
Salinity (ppt)	32.5	32.6	32.6	32.6	32.8	32.8	32.64	-		Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.72	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93			pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90		
D.O. Saturation (%)	101.1	100.9	100.9	100.6	99.8	99.6	100.49	-		D.O. Saturation (%)	100.2	99.8	101.5	99.8	101.6	99.9	100.47	-	
D.O. (mg/L)	8.05	8.04	8.04	8.01	7.94	7.92	8.00	7.93	8.04	D.O. (mg/L)	7.94	7.90	8.04	7.91	8.05	7.92	7.96	7.99	7.95
Turbidity (NTU)	3.70	3.80	3.80	3.80	6.60	8.10	4.98	-		Turbidity (NTU)	3.50	3.50	3.50	3.90	3.50	3.80	3.64	-	
SS (mg/L)	7.0	8.0	6.0	8.0	6.0	7.0	7.00	-		SS (mg/L)	5.0	7.0	5.0	4.0	6.0	10.0	6.17	-	
Remarks										Remarks									

Station			[)2			1			Station			S	R3			1		
Time (hh:mm)			21:48	-21:52						Time (hh:mm)			21:19	-21:23					
Water Depth (m)			7	00						Water Depth (m)			11	.90					
Monitoring Depth (m)	1.	.30	3	10	6.	10				Monitoring Depth (m)	1.	10	6.	60	10	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.92	-		Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.89	-	
Salinity (ppt)	32.8	32.8	32.8	32.8	32.8	32.8	32.81	-		Salinity (ppt)	32.6	32.6	32.6	32.6	32.9	32.9	32.70	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.91			pН	7.9	7.9	7.9	7.9	7.9	7.9	7.91		
D.O. Saturation (%)	100.1	99.9	100.4	99.7	101.2	99.5	100.14	-		D.O. Saturation (%)	103.4	103.4	102.4	102.4	102.5	101.3	102.57	-	
D.O. (mg/L)	7.95	7.93	7.97	7.92	8.03	7.90	7.95	7.97	7.94	D.O. (mg/L)	8.22	8.22	8.15	8.14	8.15	8.05	8.16	8.10	8.18
Turbidity (NTU)	3.70	3.80	4.10	3.90	4.10	4.00	3.95	-		Turbidity (NTU)	3.10	3.00	3.20	3.30	5.20	5.30	3.87	-	
SS (mg/L)	8.0	7.0	5.0	6.0	10.0	9.0	7.50	-		SS (mg/L)	8.0	5.0	8.0	5.0	5.0	4.0	5.83	-	
Remarks										Remarks									

Station			0	31			1			Station			S	R4			1		
Time (hh:mm)			20:53	-20:56						Time (hh:mm)			21:11	-21:14					
Water Depth (m)			12	.20						Water Depth (m)			8.	00					
Monitoring Depth (m)	1.	10	6.	.10	11	.00				Monitoring Depth (m)	1.	10	3.	80	7.	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	16.8	16.8	16.9	16.8	16.8	16.8	16.81	-		Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.91	-	
Salinity (ppt)	32.7	32.7	33.0	32.9	33.2	33.2	32.94	-		Salinity (ppt)	32.6	32.6	32.7	32.7	32.9	32.8	32.72	-	
pH	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	7.89		
D.O. Saturation (%)	103.2	103.1	103.1	101.9	102.7	101.3	102.54	-		D.O. Saturation (%)	103.5	103.2	102.8	102.7	101.2	101.2	102.44	-	
D.O. (mg/L)	8.21	8.20	8.19	8.10	8.16	8.05	8.15	8.11	8.18	D.O. (mg/L)	8.23	8.20	8.17	8.16	8.04	8.04	8.14	8.04	8.19
Turbidity (NTU)	3.60	3.20	4.20	4.60	3.70	3.90	3.89	-		Turbidity (NTU)	3.10	3.40	3.20	3.40	4.40	4.30	3.66	-	
SS (mg/L)	6.0	4.0	9.0	7.0	10.0	12.0	8.00	-		SS (mg/L)	6.0	9.0	5.0	6.0	9.0	10.0	7.50	-	
Remarks										Remarks									

Annex E2 - Water Quality Results at Airport during mid-flood tide for 19 January 2009

Sampling Date	1/19/2009
Weather & Ambient Temperature	Fine

Mid-Flood

Station			C	3]			Station			U	2			1		
Time (hh:mm)			12:12	-12:16						Time (hh:mm)			12:57	-13:01					
Water Depth (m)			12	.10						Water Depth (m)			9.	20					
Monitoring Depth (m)	1.	.10	6.	30	11	.10				Monitoring Depth (m)	1.	.20	4.	60	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.5	17.4	16.7	16.7	16.7	16.7	16.96	-		Water Temperature (°C)	17.1	17.1	17.1	17.1	17.0	17.0	17.08	-	
Salinity (ppt)	32.7	32.8	33.1	33.1	33.2	33.2	32.99	-		Salinity (ppt)	31.9	32.0	32.5	32.6	32.8	32.8	32.42	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83			pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90		
D.O. Saturation (%)	98.0	97.6	95.4	95.4	94.3	94.3	95.85	-		D.O. Saturation (%)	98.7	99.0	99.0	99.1	98.2	98.6	98.75	-	
D.O. (mg/L)	7.70	7.68	7.59	7.59	7.51	7.51	7.60	7.51	7.64	D.O. (mg/L)	7.85	7.87	7.85	7.86	7.78	7.81	7.84	7.80	7.86
Turbidity (NTU)	2.10	2.20	2.80	2.90	5.90	5.80	3.64	-		Turbidity (NTU)	2.80	5.90	6.30	6.50	6.50	6.80	5.84	-	
SS (mg/L)	6.0	9.0	52.0	44.0	11.0	11.0	22.17	-		SS (mg/L)	6.0	5.0	13.0	11.0	15.0	15.0	10.83	-	
Remarks									1	Remarks									

Station			C	4			1			Station			S	R2			1		
Time (hh:mm)			13:30	-13:35						Time (hh:mm)			13:08	-13:12					
Water Depth (m)			10	.10						Water Depth (m)			5.	10					
Monitoring Depth (m)	1.	10	5.	10	9.	10				Monitoring Depth (m)	1.	.10	2.	60	4.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.3	17.4	16.8	16.8	16.8	16.8	16.99	-		Water Temperature (°C)	16.8	17.2	16.9	16.8	16.9	16.8	16.90	-	
Salinity (ppt)	31.9	31.9	32.6	32.6	32.9	33.0	32.46	-		Salinity (ppt)	32.1	31.7	32.2	32.1	32.3	32.3	32.11	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.90			pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	98.8	99.6	97.8	97.1	98.7	97.4	98.22	-		D.O. Saturation (%)	96.7	96.4	97.5	96.2	97.2	96.3	96.71	-	
D.O. (mg/L)	7.82	7.89	7.79	7.74	7.85	7.75	7.81	7.80	7.81	D.O. (mg/L)	7.72	7.66	7.78	7.69	7.75	7.69	7.72	7.72	7.71
Turbidity (NTU)	2.10	2.00	3.40	2.90	5.10	6.00	3.61	-		Turbidity (NTU)	3.20	2.80	3.00	3.80	3.40	3.10	3.24	-	
SS (mg/L)	6.0	5.0	6.0	6.0	8.0	8.0	6.50	-		SS (mg/L)	5.0	5.0	6.0	5.0	8.0	8.0	6.17	-	
Remarks										Remarks									

Station			[)2			1			Station			S	R3			1		
Time (hh:mm)			13:17	-13:22						Time (hh:mm)			12:48	-12:54					
Water Depth (m)			8.	40						Water Depth (m)			13	.10					
Monitoring Depth (m)	1.	.10	4.	10	7.	20				Monitoring Depth (m)	1.	.10	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.2	17.3	17.0	17.0	17.0	17.0	17.07	-		Water Temperature (°C)	17.1	17.1	16.9	17.0	17.0	17.0	17.03	-	
Salinity (ppt)	31.9	32.0	32.8	32.7	32.9	32.9	32.51	-		Salinity (ppt)	32.2	32.4	32.8	32.8	33.0	33.1	32.69	-	
pH	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 (%)	98.9	99.4	98.7	98.1	97.9	98.0	98.50	-		D.O. Saturation (%)	99.1	99.3	99.7	99.6	101.0	99.4	99.68	-	
D.O. (mg/L)	7.86	7.88	7.83	7.78	7.76	7.77	7.81	7.77	7.84	D.O. (mg/L)	7.87	7.88	7.92	7.90	7.99	7.87	7.91	7.93	7.89
Turbidity (NTU)	3.20	3.10	6.30	7.00	7.60	7.00	5.72	-		Turbidity (NTU)	2.90	3.20	4.50	4.50	6.50	6.70	4.75	-	
SS (mg/L)	4.0	5.0	8.0	8.0	12.0	10.0	7.83	-		SS (mg/L)	8.0	8.0	6.0	7.0	10.0	12.0	8.50	-	
Remarks										Remarks									

Station			(31			1			Station			S	R4			1		
Time (hh:mm)			12:24	-12:29						Time (hh:mm)			12:36	-12:41					
Water Depth (m)			13	.00						Water Depth (m)			9.	10					
Monitoring Depth (m)	1.	10	6.	70	12	.00				Monitoring Depth (m)	1.	.10	4.	40	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.2	17.2	16.8	16.9	16.9	16.9	16.98	-		Water Temperature (°C)	17.2	17.2	16.8	16.8	16.8	16.8	16.94	-	
Salinity (ppt)	32.2	32.2	33.1	33.1	33.2	33.2	32.83	-		Salinity (ppt)	32.0	32.1	32.8	33.0	33.1	33.1	32.69	-	
рН	7.8	7.8	7.9	7.9	7.9	7.9	7.85			pH	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	96.5	97.6	96.3	96.6	95.8	96.4	96.53	-		D.O. Saturation (%)	97.7	97.4	95.5	96.0	94.8	96.1	96.24	-	
D.O. (mg/L)	7.65	7.74	7.64	7.66	7.60	7.64	7.66	7.62	7.67	D.O. (mg/L)	7.75	7.72	7.60	7.64	7.53	7.64	7.65	7.59	7.68
Turbidity (NTU)	3.50	2.40	4.40	4.30	8.80	8.50	5.32	-		Turbidity (NTU)	2.00	2.20	2.40	2.90	3.60	3.80	2.83	-	
SS (mg/L)	6.0	4.0	7.0	8.0	18.0	15.0	9.67	-		SS (mg/L)	3.0	3.0	5.0	6.0	7.0	7.0	5.17	-	
Remarks										Remarks									

Annex E3 - Water Quality Results at Tuen Mun during mid-ebb tide for 20 January 2009

Date			1/20/	2009				
Station			C	1				
Time (hh:mm)			21:42	-21:48				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.	00				
Tide			mid t	o Ebb				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.0	17.0	16.9	16.9	16.9	16.9	16.93	-
Salinity (ppt)	32.9	32.9	33.2	33.1	33.2	33.2	33.05	-
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.59	
D.O. Saturation (%)	92.5	92.7	90.6	91.3	90.7	91.8	91.60	-
D.O. (mg/L)	7.34	7.35	7.18	7.24	7.19	7.27	7.26	7.23
Turbidity (NTU)	3.34	3.34	4.55	4.15	4.15	4.25	3.96	-
SS (mg/L)	6.0	4.0	8.0	8.0	5.0	6.0	6.17	-
Remarks						-		

Date			1/20	/2009						
Station			(2						
Time (hh:mm)			22:32	-22:37						
Ambient Temperature (°C)										
Weather			Fi	ne						
Water Depth (m)										
Monitoring Depth (m)										
Tide			mid t							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (℃)	17.0	17.1	17.0	17.0	17.0	17.0	16.99	-		
Salinity (ppt)	33.0	33.0	33.1	33.1	33.2	33.2	33.11	-		
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.71			
D.O. Saturation (%)	94.7	94.9	94.2	94.0	94.1	93.7	94.27	-		
D.O. (mg/L)	7.49	7.50	7.46	7.44	7.45	7.42	7.46	7.44		
Turbidity (NTU)	3.94	4.15	4.15	3.84	3.84	4.35	4.05	-		
SS (mg/L)	9.0	8.0	5.0	6.0	8.0	8.0	7.33	-		
Remarks						-				

Date			1/20/	/2009				
Station)1				
Time (hh:mm)			22:21	-22:26				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.					
Tide			mid t					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.0	17.0	17.0	17.0	16.9	16.9	16.98	-
Salinity (ppt)	33.1	33.1	33.1	33.2	33.2	33.2	33.15	-
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.69	
D.O. Saturation (%)	95.5	94.0	94.2	94.0	97.2	93.5	94.72	-
D.O. (mg/L)	7.55	7.43	7.45	7.44	7.70	7.40	7.50	7.55
Turbidity (NTU)	2.73	2.93	2.93	3.24	1.72	3.54	2.85	-
SS (mg/L)	5.0	4.0	5.0	6.0	5.0	5.0	5.00	-
Remarks						-		

Date			1/20/2	009				
Station			U1					
Time (hh:mm)			21:56-2	22:00				
Ambient Temperature (℃)								
Weather			Fin	e				
Water Depth (m)			8.1	0				
Monitoring Depth (m)	1.	00	3.	90		7.10		
Tide								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.92	-
Salinity (ppt)	33.1	33.1	33.2	33.2	33.2	33.2	33.16	-
pH	7.6	7.6	7.6	7.6	7.7	7.6	7.64	
D.O. Saturation (%)	91.7	91.7	91.8	91.7	92.2	91.5	91.77	-
D.O. (mg/L)	7.27	7.27	7.27	7.27	7.31	7.25	7.27	7.28
Turbidity (NTU)	4.15	4.35	4.65	4.25	5.56	3.84	4.47	-
SS (mg/L)	6.0	5.0	8.0	7.0	6.0	6.0	6.33	-
Remarks					-			

Date			1/20/2	2009			1	
Station			SR	1				
Time (hh:mm)			22:05-2	22:09				
Ambient Temperature (°C)								
Weather			Fin	е				
Water Depth (m)								
Monitoring Depth (m)	0.	90	2.	40		4.00		
Tide								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	17.0	17.1	17.0	17.0	17.0	17.0	17.01	-
Salinity (ppt)	33.1	33.1	33.2	33.2	33.2	33.2	33.15	-
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.67	
D.O. Saturation (%)	94.1	95.9	93.4	93.0	93.2	93.0	93.76	-
D.O. (mg/L)	7.44	7.57	7.39	7.36	7.38	7.36	7.42	7.37
Turbidity (NTU)	2.83	2.53	3.74	2.93	3.84	3.13	3.17	-
SS (mg/L)	9.0	7.0	5.0	4.0	7.0	4.0	6.00	-
Remarks					-			

Annex E4 - Water Quality Results at Tuen Mun during mid-flood tide for 20 January 2009

Date			1/20/	2009				
Station			C	1				
Time (hh:mm)			09:06	-09:11				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			8.					
Monitoring Depth (m)	1.	10	4.					
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.0	17.0	16.9	16.9	16.9	16.9	16.94	-
Salinity (ppt)	32.9	33.0	33.0	33.0	33.0	33.0	32.98	-
pH	7.9	7.9	7.9	7.9	7.8	7.9	7.88	
D.O. Saturation (%)	98.0	97.9	97.8	97.7	97.9	98.1	97.89	-
D.O. (mg/L)	7.77	7.76	7.76	7.74	7.76	7.78	7.76	7.77
Turbidity (NTU)	2.01	2.01	2.01	2.11	2.11	2.11	2.06	-
SS (mg/L)	4.0	5.0	7.0	11.0	6.0	6.0	6.50	-
Remarks						-	•	

Date			1/20/	2009				
Station			C	2				
Time (hh:mm)			09:51	-09:55				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			13	.00				
Monitoring Depth (m)	1.	10	6.	50				
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2			Depth-averaged	Bottom
Water Temperature (°C)	16.9	17.0	16.9	16.9	16.9	16.9	16.93	-
Salinity (ppt)	32.9	32.9	32.9	32.9	33.0	33.0	32.92	-
	7.9	7.9	7.9	7.9	7.9	7.9	7.94	
D.O. Saturation (%)	96.6	96.5	96.4	95.6	97.3	95.5	96.32	-
D.O. (mg/L)	7.67	7.65	7.65	7.59	7.72	7.57	7.64	7.65
Turbidity (NTU)	3.12					3.22	-	
SS (mg/L)	6.0 5.0 9.0 7.0 7.0 5.0						6.50	-
Remarks						-		

Date			1/20/	2009				
Station			D)1				
Time (hh:mm)			09:42	-09:45				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			9.					
Monitoring Depth (m)	1.	10	4.	60	8.	10		
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.93	-
Salinity (ppt)	32.9	32.9	32.9	32.9	33.0	32.9	32.93	-
pН	7.9	7.9	7.9	7.9	7.9	7.9	7.94	
D.O. Saturation (%)	97.4	97.1	97.6	96.9	98.7	96.9	97.43	-
D.O. (mg/L)	7.73	7.70	7.74	7.69	7.83	7.69	7.73	7.76
Turbidity (NTU)	2.41	2.52	2.62	2.41	2.62	2.41	2.50	-
SS (mg/L)	4.0	5.0	6.0	6.0	5.0	4.0	5.00	-
Remarks						-		

Date			1/20/2	2009				
Station			U1					
Time (hh:mm)			09:22-0)9:27				
Ambient Temperature (°C)								
Weather			Fin	е				
Water Depth (m)			8.6	0				
Monitoring Depth (m)	1.	10	4.	60		7.90		
Tide			mid to I	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.91	-
Salinity (ppt)	33.0	33.0	33.0	33.0	33.0	33.0	32.97	-
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93	
D.O. Saturation (%)	97.4	97.2	97.3	96.9	98.5	97.8	97.53	-
D.O. (mg/L)	7.73	7.71	7.72	7.69	7.82	7.76	7.74	7.79
Turbidity (NTU)	2.31	2.41	2.31	2.31	2.41	2.72	2.41	
SS (mg/L)	4.0	6.0	6.0	7.0	5.0	5.0	5.50	
Remarks					-			

Date			1/20/2	009			7	
Station			SR	1				
Time (hh:mm)			09:32-0)9:37				
Ambient Temperature (°C)								
Weather			Fin	е				
Water Depth (m)			5.1	0				
Monitoring Depth (m)	1.	00	2.	70		4.00		
Tide			mid to I	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.91	-
Salinity (ppt)	32.9	32.9	32.9	32.9	32.9	32.9	32.94	-
pН	7.9	7.9	7.9	7.9	7.9	7.9	7.93	
D.O. Saturation (%)	97.2	97.3	97.3	97.6	98.4	99.0	97.80	-
D.O. (mg/L)	7.71	7.72	7.72	7.74	7.81	7.86	7.76	7.84
Turbidity (NTU)	2.52	2.72	3.02	2.82	3.22	3.22	2.92	-
SS (mg/L)	5.0	5.0	7.0	7.0	6.0	6.0	6.00	-
Remarks					-			

Annex E5 - Water Quality Results at Airport during mid-ebb tide for 21 January 2009

Sampling Date	1/21/2009
Weather & Ambient Temperature	Fine

Mid-Ebb

Station			(23			1			Station			ι	J2			1		
Time (hh:mm)			22:32	2-22:37						Time (hh:mm)			23:15	-23:18					
Water Depth (m)			10	0.00						Water Depth (m)			7.	70					
Monitoring Depth (m)	1.	00	5	.10	9.	00				Monitoring Depth (m)	1.	00	3.	60	6.	20			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface&Mi ddle
Water Temperature (°C)	17.8	17.7	17.0	17.0	17.1	17.1	17.26	-		Water Temperature (℃)	17.7	17.7	17.7	17.7	17.7	17.7	17.71	-	
Salinity (ppt)	29.2	28.8	32.4	32.6	33.1	33.1	31.52	-		Salinity (ppt)	29.3	29.2	29.2	29.4	29.4	29.6	29.36	-	
pH	7.7	7.8	7.6	7.7	7.6	7.7	7.69			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.86		
D.O. Saturation (%)	95.6	96.1	86.3	87.0	86.9	89.6	90.27	-		D.O. Saturation (%)	99.4	99.6	99.3	99.0	98.0	98.5	98.92	-	
D.O. (mg/L)	13.98	14.05	12.62	12.72	12.71	13.10	13.20	12.91	13.34	D.O. (mg/L)	14.53	14.55	14.51	14.47	14.32	14.39	14.46	14.36	14.52
Turbidity (NTU)	2.10	2.00	2.80	3.10	2.40	2.60	2.50	-		Turbidity (NTU)	2.30	2.30	2.30	2.40	2.30	2.60	2.40	-	
SS (mg/L)	4.0	2.0	5.0	6.0	5.0	5.0	4.50	-		SS (mg/L)	4.0	2.0	5.0	5.0	6.0	4.0	4.33	-	
Remarks									1	Remarks									

Station			C	:4			1			Station			S	R2			1		
Time (hh:mm)			00:04	-00:07						Time (hh:mm)			23:24	-23:26					
Water Depth (m)			8.	00						Water Depth (m)			5.	00					
Monitoring Depth (m)	1.	00	4.	00	7.	00				Monitoring Depth (m)	1.	.10	2.	50	4.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.7	17.7	17.1	17.2	17.0	17.0	17.26	-		Water Temperature (°C)	18.1	18.1	18.2	18.1	18.1	18.2	18.13	-	
Salinity (ppt)	30.1	30.1	31.5	31.2	31.8	31.7	31.08	-		Salinity (ppt)	30.0	30.0	30.3	30.0	30.7	30.3	30.20	-	
pH	7.9	7.9	7.8	7.9	7.8	7.8	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.87		
D.O. Saturation (%)	102.8	104.2	93.3	95.5	91.8	93.1	96.76	-		D.O. Saturation (%)	101.0	100.7	98.5	100.7	97.7	100.5	99.80	-	
D.O. (mg/L)	15.03	15.23	13.64	13.96	13.42	13.61	14.15	13.52	14.47	D.O. (mg/L)	14.76	14.72	14.39	14.72	14.28	14.69	14.59	14.49	14.65
Turbidity (NTU)	3.50	3.20	2.30	3.70	3.00	2.30	3.04	-		Turbidity (NTU)	2.00	2.10	2.20	2.10	2.20	2.10	2.14	-	
SS (mg/L)	3.0	5.0	5.0	4.0	7.0	12.0	6.00	-		SS (mg/L)	4.0	2.0	2.0	3.0	4.0	2.0	2.83	-	
Remarks										Remarks									

Station			[02			1			Station			S	R3			1		
Time (hh:mm)			23:32	2-23:36						Time (hh:mm)			23:06	-23:11					
Water Depth (m)			7	.20						Water Depth (m)			12	.10					
Monitoring Depth (m)	1.	.20	3	.50	6.	00				Monitoring Depth (m)	1.	00	6.	10	11	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.7	17.4	17.3	17.2	17.0	16.9	17.26	-		Water Temperature (°C)	17.8	17.9	17.6	17.6	17.3	17.1	17.54	-	
Salinity (ppt)	29.1	30.0	30.3	30.7	31.9	31.8	30.64	-		Salinity (ppt)	28.7	28.7	29.6	29.8	30.8	31.2	29.79	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.83			рН	7.9	7.9	7.8	7.8	7.8	7.8	7.84		
D.O. Saturation (%)	95.0	93.1	90.4	92.0	89.0	88.9	91.35	-		D.O. Saturation (%)	104.2	102.6	95.8	96.6	96.0	92.4	97.96	-	
D.O. (mg/L)	13.88	13.61	13.21	13.44	13.01	12.99	13.36	13.00	13.54	D.O. (mg/L)	15.24	14.99	14.01	14.13	14.04	13.52	14.32	13.78	14.59
Turbidity (NTU)	2.20	2.40	3.30	2.90	3.80	4.40	3.19	-		Turbidity (NTU)	2.20	2.30	3.10	3.10	2.10	3.90	2.81	-	
SS (mg/L)	2.0	2.0	4.0	7.0	10.0	8.0	5.50	-		SS (mg/L)	2.0	2.0	5.0	8.0	6.0	12.0	5.83	-	
Remarks										Remarks									

Station			0	31			1			Station			S	R4			1		
Time (hh:mm)			22:45	-22:51						Time (hh:mm)			22:58	-23:02					
Water Depth (m)			10	.00						Water Depth (m)			9.	10					
Monitoring Depth (m)	1.	00	5.	40	8.	90				Monitoring Depth (m)	1.	00	4.	60	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.5	17.6	17.0	17.0	17.0	17.0	17.19	-		Water Temperature (°C)	17.8	17.6	17.0	17.1	17.0	17.0	17.24	-	
Salinity (ppt)	29.6	29.4	32.6	32.3	32.8	32.8	31.55	-		Salinity (ppt)	29.1	29.6	31.5	31.0	31.9	31.8	30.82	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.78			pH	7.9	7.9	7.8	7.8	7.8	7.8	7.83		
D.O. Saturation (%)	97.1	98.5	86.4	87.1	87.4	88.4	90.85	-		D.O. Saturation (%)	105.3	104.4	89.8	92.9	89.0	95.2	96.14	-	
D.O. (mg/L)	14.20	14.41	12.64	12.74	12.78	12.93	13.28	12.86	13.50	D.O. (mg/L)	15.40	15.27	13.13	13.59	13.02	13.92	14.06	13.47	14.35
Turbidity (NTU)	2.40	2.90	4.20	4.80	4.00	3.90	3.71	-		Turbidity (NTU)	3.40	2.60	4.90	3.30	7.10	6.10	4.57	-	
SS (mg/L)	4.0	2.0	5.0	5.0	8.0	5.0	4.83	-		SS (mg/L)	4.0	3.0	8.0	10.0	10.0	11.0	7.67	-	
Remarks										Remarks									

Annex E6 - Water Quality Results at Airport during mid-flood tide for 21 January 2009

Sampling Date	1/21/2009
Weather & Ambient Temperature	Fine

Mid-Flood

Station			C	3			1			Station			U	12			1		
Time (hh:mm)			09:34	-09:40						Time (hh:mm)			10:14	-10:17					
Water Depth (m)			10	.80						Water Depth (m)			8.	00					
Monitoring Depth (m)	1.	.00	5.	50	9.	90				Monitoring Depth (m)	1.	00	4.	10	7.	00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface&Mi ddle
Water Temperature (°C)	17.1	17.1	17.0	17.0	17.0	17.0	17.01	-		Water Temperature (°C)	17.3	17.4	17.4	17.2	17.1	17.1	17.25	-	
Salinity (ppt)	32.7	32.6	33.0	33.0	33.1	33.1	32.88	-		Salinity (ppt)	31.0	30.4	31.6	31.9	32.8	32.8	31.74	-	
pH	7.7	7.8	7.7	7.7	7.7	7.7	7.73			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.82		
D.O. Saturation (%)	96.9	95.3	93.0	94.4	92.4	93.0	94.17	-		D.O. Saturation (%)	102.1	105.0	99.1	98.9	97.3	98.2	100.07	-	
D.O. (mg/L)	14.17	13.93	13.59	13.81	13.50	13.60	13.77	13.55	13.88	D.O. (mg/L)	14.93	15.34	14.48	14.46	14.22	14.35	14.63	14.29	14.80
Turbidity (NTU)	2.00	2.20	2.30	2.30	3.10	2.80	2.48	-		Turbidity (NTU)	4.40	2.30	3.00	3.10	4.50	4.80	3.67	-	
SS (mg/L)	0.5	2.0	4.0	6.0	6.0	8.0	4.42	-		SS (mg/L)	3.0	5.0	5.0	3.0	8.0	8.0	5.33	-	
Remarks										Remarks									

Station			C	24			1			Station			S	R2			1		
Time (hh:mm)			10:44	-10:47						Time (hh:mm)			10:26	-10:30					
Water Depth (m)			8.	00						Water Depth (m)			5.	30					
Monitoring Depth (m)	1.1	10	4.	10	7.	00				Monitoring Depth (m)	1.	.10	2.	60	4.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	0.0	0.0	0.0	0.0	0.0	0.0	0.00	-		Water Temperature (°C)	17.1	17.2	17.1	17.1	17.1	17.1	17.09	-	
Salinity (ppt)	0.0	0.0	0.0	0.0	0.0	0.0	0.00	-		Salinity (ppt)	32.4	32.4	32.7	32.7	32.8	32.8	32.63	-	
pH	8.0	7.9	7.9	7.8	7.8	7.8	7.88			рН	7.8	7.8	7.8	7.8	7.8	7.8	7.82		
D.O. Saturation (%)	109.3	115.7	98.5	98.4	97.7	101.3	103.47	-		D.O. Saturation (%)	96.0	96.4	95.3	95.4	96.2	95.3	95.76	-	
D.O. (mg/L)	15.97	16.91	14.40	14.39	14.28	14.80	15.13	14.54	15.42	D.O. (mg/L)	14.04	14.10	13.93	13.95	14.06	13.93	14.00	14.00	14.01
Turbidity (NTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-		Turbidity (NTU)	5.40	3.60	3.80	3.90	3.60	4.80	4.20	-	
SS (mg/L)	6.0	5.0	2.0	3.0	5.0	6.0	4.50	-		SS (mg/L)	6.0	5.0	6.0	6.0	5.0	4.0	5.33	-	
Remarks										Remarks									

Station			[02			1			Station			S	R3			1		
Time (hh:mm)			10:36	6-10:39						Time (hh:mm)			10:06	-10:10					
Water Depth (m)			7	.90						Water Depth (m)			12	.10					
Monitoring Depth (m)	1.	.10	4	.10	6.	90				Monitoring Depth (m)	1.	00	6.	10	11	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	0.0	0.0	0.0	0.0	0.0	0.0	0.00	-		Water Temperature (°C)	17.4	17.5	17.1	17.1	17.0	17.0	17.20	-	
Salinity (ppt)	0.0	0.0	0.0	0.0	0.0	0.0	0.00	-		Salinity (ppt)	32.0	31.8	32.8	32.8	33.0	33.0	32.58	-	
pH	7.9	7.8	7.8	7.8	7.8	7.8	7.83			pН	7.8	7.8	7.8	7.8	7.8	7.8	7.80		
D.O. Saturation (%)	106.1	101.1	94.1	94.8	94.0	98.1	98.02	-		D.O. Saturation (%)	98.7	99.3	94.7	94.7	94.4	94.0	95.95	-	
D.O. (mg/L)	15.51	14.78	13.75	13.86	13.74	14.35	14.33	14.05	14.48	D.O. (mg/L)	14.43	14.52	13.84	13.84	13.81	13.74	14.03	13.78	14.16
Turbidity (NTU)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-		Turbidity (NTU)	3.30	3.40	4.90	4.70	5.50	5.40	4.52	-	
SS (mg/L)	3.0	3.0	7.0	6.0	6.0	5.0	5.00	-		SS (mg/L)	4.0	6.0	8.0	6.0	6.0	8.0	6.33	-	
Remarks										Remarks									

Station			0	31			1			Station			S	R4			1		
Time (hh:mm)			09:47	-09:51						Time (hh:mm)			12:35	-12:39					
Water Depth (m)			11	.10						Water Depth (m)			10	0.10					
Monitoring Depth (m)	1.	10	5.	50	10	.10				Monitoring Depth (m)	1.	20	5.	.10	9.	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.1	16.9	16.9	16.9	17.0	17.0	16.94	-		Water Temperature (°C)	17.7	17.3	17.0	17.2	17.0	17.0	17.19	-	
Salinity (ppt)	32.4	32.5	32.6	32.6	33.1	33.1	32.72	-		Salinity (ppt)	29.7	30.4	32.9	32.7	32.9	33.0	31.93	-	
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.78			рН	7.9	7.9	7.8	7.8	7.8	7.8	7.82		
D.O. Saturation (%)	98.8	97.0	94.2	93.5	93.2	94.0	95.10	-		D.O. Saturation (%)	115.6	108.4	90.9	92.9	92.5	100.6	100.15	-	
D.O. (mg/L)	14.44	14.18	13.78	13.66	13.63	13.74	13.91	13.69	14.02	D.O. (mg/L)	9.21	8.68	7.21	7.35	7.33	7.98	7.96	7.66	8.11
Turbidity (NTU)	2.40	2.20	2.60	3.00	2.80	3.10	2.71	-		Turbidity (NTU)	2.50	2.50	3.10	3.00	3.30	2.90	2.92	-	
SS (mg/L)	3.0	4.0	5.0	2.0	3.0	5.0	3.67	-		SS (mg/L)	4.0	6.0	3.0	6.0	4.0	4.0	4.50	-	
Remarks										Remarks									

Annex E7 - Water Quality Results at Tuen Mun during mid-ebb tide for 22 January 2009

Date			1/22/	/2009				
Station			C	1				
Time (hh:mm)			23:17	-23:20				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			8.	10				
Monitoring Depth (m)	1.	00	4.	10				
Tide			mid t					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (℃)	17.3	17.4	17.3	17.3	17.3	17.3	17.33	-
Salinity (ppt)	32.4	32.0	32.6	32.6	32.6	32.7	32.48	-
pH	7.6	7.7	7.6	7.6	7.5	7.6	7.62	
D.O. Saturation (%)	95.1	99.1	93.0	93.5	97.7	93.5	95.33	-
D.O. (mg/L)	7.51	7.84	7.33	7.38	7.71	7.38	7.53	7.55
Turbidity (NTU)	2.73	2.12	3.54	3.03	0.91	2.93	2.54	-
SS (mg/L)	3.0	3.0	6.0	4.0	6.0	5.0	4.50	-
Remarks						-		

Date			1/22/	2009				
Station			C	2				
Time (hh:mm)			23:55	-23:59				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			12					
Monitoring Depth (m)	1.	10	6.					
Tide			mid t					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.31	-
Salinity (ppt)	32.3	32.3	32.5	32.6	32.7	32.7	32.54	-
pH	7.8	7.8	7.7	7.7	7.7	7.7	7.72	
D.O. Saturation (%)	100.4	100.0	95.9	95.3	95.4	101.1	98.02	-
D.O. (mg/L)	7.94	7.90	7.57	7.52	7.52	7.97	7.74	7.75
Turbidity (NTU)	1.82	1.82	2.43	2.33	2.93	1.82	2.19	-
SS (mg/L)	3.0	5.0	5.0	4.0	5.0	6.0	4.67	-
Remarks						-		

Date			1/22/	2009				
Station			D)1				
Time (hh:mm)			23:47	-23:50				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			8.					
Monitoring Depth (m)	1.	10	4.					
Tide			mid t					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.31	-
Salinity (ppt)	32.4	32.3	32.7	32.6	32.7	32.7	32.58	-
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.72	
D.O. Saturation (%)	99.0	99.1	94.7	95.2	98.5	94.5	96.83	-
D.O. (mg/L)	7.82	7.83	7.47	7.51	7.77	7.45	7.64	7.61
Turbidity (NTU)	1.92	1.92	2.22	2.43	2.63	3.74	2.48	-
SS (mg/L)	5.0	4.0	8.0	5.0	5.0	6.0	5.50	-
Remarks					-			

Date			1/22/2	009								
Station			U1				1					
Time (hh:mm)												
Ambient Temperature (°C)												
Weather												
Water Depth (m)			8.1	0								
Monitoring Depth (m)	1.	1.00 4.60 7.10										
Tide		mid to Ebb										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom				
							averaged					
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.29	-				
Salinity (ppt)	32.4	32.3	32.8	32.8	32.8	32.8	32.63	-				
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.69					
D.O. Saturation (%)	97.5	99.3	91.7	92.8	93.7	93.9	94.81	-				
D.O. (mg/L)	7.70	7.86	7.23	7.31	7.39	7.40	7.48	7.40				
Turbidity (NTU)	2.02	1.72	3.24	3.94	3.64	3.54	3.02	-				
SS (mg/L)	4.0	5.0	7.0	4.0	5.0	7.0	5.33	-				
Remarks					-							

Date			1/22/2	009			7				
Station			SR	1							
Time (hh:mm)			23:39-2	23:42							
Ambient Temperature (°C)											
Weather											
Water Depth (m)											
Monitoring Depth (m)	1.	10	3.00								
Tide		mid to Ebb									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom			
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.33	-			
Salinity (ppt)	32.5	32.5	32.5	32.6	32.6	32.6	32.56	-			
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.71				
D.O. Saturation (%)	97.7	97.4	97.1	96.7	96.2	96.8	96.98	-			
D.O. (mg/L)	7.71	7.68	7.66	7.62	7.58	7.64	7.65	7.61			
Turbidity (NTU)	2.12	2.12	2.33	2.43	2.73	2.53	2.38	-			
SS (mg/L)	4.0	5.0	5.0	5.0	4.0	7.0	5.00	-			
Remarks					-						

Annex E8 - Water Quality Results at Tuen Mun during mid-flood tide for 15 January 2009

Date			1/22/	/2009				
Station			C	21				
Time (hh:mm)			11:00	-11:03				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			7.	10				
Monitoring Depth (m)	1.	00	4.					
Tide			mid to					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.4	17.4	17.4	17.4	17.4	17.4	17.36	-
Salinity (ppt)	31.6	31.6	31.8	31.9	31.9	32.0	31.80	-
pH	7.7	7.7	7.6	7.7	7.6	7.7	7.65	
D.O. Saturation (%)	94.7	94.5	91.1	92.1	91.5	92.7	92.77	-
D.O. (mg/L)	7.51	7.49	7.22	7.29	7.24	7.34	7.35	7.29
Turbidity (NTU)	1.92	1.92	2.43	2.53	2.93	2.12	2.31	-
SS (mg/L)	6.0	5.0	4.0	5.0	4.0	3.0	4.50	-
Remarks						-		

Date			1/00	2009				
Station			C	2				
Time (hh:mm)			11:34	-11:38				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			13					
Monitoring Depth (m)	1.	00	6.	50	.00			
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (℃)	17.3	17.3	17.2	17.2	17.2	17.2	17.23	-
Salinity (ppt)	31.9	31.8	31.9	31.9	32.1	32.1	31.94	-
	7.8	7.8	7.8	7.8	7.8	7.7	7.76	
D.O. Saturation (%)	91.9	92.4	90.7	89.8	88.7	89.6	90.52	-
D.O. (mg/L)	7.29	7.33	7.20	7.13	7.04	7.11	7.18	7.08
Turbidity (NTU)	2.53	2.43	2.53	2.73	3.03	2.83	2.68	-
SS (mg/L)	4.0	5.0	4.0	4.0	4.0	6.0	4.50	-
Remarks						-		

Date			1/22/	2009				
Station			D)1				
Time (hh:mm)			11:26					
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			8.					
Monitoring Depth (m)	1.	00	4.					
Tide			mid to					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.3	17.3	17.2	17.2	17.2	17.2	17.22	-
Salinity (ppt)	31.6	31.7	31.7	31.8	31.8	31.9	31.73	-
pН	7.8	7.8	7.8	7.7	7.8	7.7	7.75	
D.O. Saturation (%)	94.5	93.5	91.4	91.9	91.5	92.0	92.47	-
D.O. (mg/L)	7.50	7.43	7.26	7.31	7.27	7.31	7.35	7.29
Turbidity (NTU)	2.73	3.03	3.24	3.54	3.24	3.44	3.20	-
SS (mg/L)	7.0	6.0	5.0	5.0	7.0	8.0	6.33	-
Remarks						-		

Date			1/22/2	009								
Station			U1				1					
Time (hh:mm)			11:10-1	1:13								
Ambient Temperature (°C)												
Weather												
Water Depth (m)			8.0	0								
Monitoring Depth (m)	1.	1.00 4.00 7.00										
Tide		mid to Flood										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom				
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.29	-				
Salinity (ppt)	31.7	31.7	31.8	31.8	32.0	31.9	31.83					
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.72					
D.O. Saturation (%)	94.6	94.5	91.3	93.2	91.4	92.7	92.95	-				
D.O. (mg/L)	7.50	7.49	7.24	7.39	7.25	7.35	7.37	7.30				
Turbidity (NTU)	2.53	2.53	2.12	2.43	2.22	2.12	2.33					
SS (mg/L)	6.0	5.0	3.0	3.0	6.0	4.0	4.50	-				
Remarks		-	•		-							

Date			1/22/2	009			7	
Station			SR	1				
Time (hh:mm)			11:17-1	11:20				
Ambient Temperature (°C)								
Weather								
Water Depth (m)								
Monitoring Depth (m)	1.	10	2.	00		3.10		
Tide								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	17.3	17.3	17.3	17.3	17.3	17.3	17.30	-
Salinity (ppt)	31.5	31.5	31.5	31.5	31.6	31.6	31.55	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.75	
D.O. Saturation (%)	97.0	96.7	96.3	96.6	93.4	96.5	96.08	-
D.O. (mg/L)	7.70	7.68	7.65	7.67	7.42	7.67	7.63	7.55
Turbidity (NTU)	1.92	2.43	2.22	2.12	2.43	2.22	2.22	-
SS (mg/L)	5.0	3.0	4.0	4.0	7.0	5.0	4.67	-
Remarks					-			

Annex E9 - Water Quality Results at Airport during mid-ebb tide for 23 January 2009

Sampling Date	23-01-09
Weather & Ambient Temperature	Fine

Mid-Ebb

Station			C	3			1			Station			ι	12					
Time (hh:mm)			23:38	-23:42						Time (hh:mm)	00:17-00:20								
Water Depth (m)			11	.20						Water Depth (m)		8.20							
Monitoring Depth (m)	1.	.10	5.	10	10	.20				Monitoring Depth (m)	1.	10	4.	10	7.	10			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface&Mi ddle
Water Temperature (°C)	17.2	17.2	17.3	17.2	17.3	17.3	17.27	-		Water Temperature (°C)	17.0	17.0	17.1	17.1	17.1	17.1	17.08	-	
Salinity (ppt)	32.0	32.0	32.0	32.0	32.4	32.5	32.14	-		Salinity (ppt)	31.3	31.3	31.3	31.3	31.5	31.4	31.34	-	
рН	7.8	7.8	7.8	7.8	7.7	7.8	7.77			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	99.8	99.4	99.5	98.2	98.8	96.2	98.64	-		D.O. Saturation (%)	99.6	99.7	99.8	99.0	98.0	98.0	99.02	-	
D.O. (mg/L)	7.91	7.89	7.89	7.79	7.80	7.59	7.81	7.70	7.87	D.O. (mg/L)	7.97	7.97	7.97	7.91	7.81	7.82	7.91	7.82	7.96
Turbidity (NTU)	4.90	4.70	5.20	4.70	5.30	5.00	4.92	-		Turbidity (NTU)	4.60	2.40	2.60	2.50	2.50	3.20	2.99	-	
SS (mg/L)	5.0	6.0	4.0	3.0	4.0	5.0	4.50	-		SS (mg/L)	5.0	6.0	6.0	6.0	8.0	8.0	6.50	-	
Remarks										Remarks									

Station			C	4]			Station			S	R2					
Time (hh:mm)			00:46	-00:49						Time (hh:mm)			00:28	-00:31					
Water Depth (m)			8.	20						Water Depth (m)			5.	00					
Monitoring Depth (m)	1.	10	4.	10	7.	00				Monitoring Depth (m)	1.	10	2.	60	4.	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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.93	-		Water Temperature (°C)	17.5	17.5	17.4	17.3	17.3	17.3	17.39	-	
Salinity (ppt)	31.7	31.7	31.8	31.7	32.1	32.0	31.83	-		Salinity (ppt)	31.4	31.3	31.4	31.3	31.4	31.4	31.35	-	
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	7.85		
D.O. Saturation (%)	99.6	99.2	99.7	98.7	101.7	98.1	99.47	-		D.O. Saturation (%)	98.4	97.9	98.5	97.9	98.9	97.8	98.25	-	
D.O. (mg/L)	7.96	7.93	7.96	7.88	8.11	7.82	7.94	7.97	7.93	D.O. (mg/L)	7.79	7.76	7.82	7.78	7.86	7.77	7.80	7.82	7.79
Turbidity (NTU)	4.50	4.00	4.80	4.40	5.60	5.50	4.77	-		Turbidity (NTU)	3.10	2.80	3.30	3.00	3.30	2.90	3.10	-	
SS (mg/L)	7.0	9.0	7.0	11.0	10.0	17.0	10.17	-		SS (mg/L)	6.0	4.0	5.0	6.0	7.0	6.0	5.67	-	
Remarks										Remarks									

Station			0)2			1			Station			S	R3			1		
Time (hh:mm)			00:37	-00:39						Time (hh:mm)			00:09	-00:12					
Water Depth (m)			7.	10						Water Depth (m)			12	10					
Monitoring Depth (m)	1.	10	3.	70	6.	10				Monitoring Depth (m)	1.	30	6.	00	11	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.2	17.2	17.2	17.2	17.1	17.1	17.16	-		Water Temperature (°C)	17.1	17.1	17.1	17.1	17.1	17.1	17.09	-	
Salinity (ppt)	31.3	31.4	31.5	31.4	31.9	32.0	31.60	-		Salinity (ppt)	31.5	31.5	31.7	31.6	32.1	32.1	31.72	-	
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 (%)	97.3	98.3	97.6	97.5	99.5	95.6	97.62	-		D.O. Saturation (%)	99.3	99.3	96.0	96.5	92.3	94.5	96.30	-	
D.O. (mg/L)	7.75	7.83	7.76	7.77	7.91	7.60	7.77	7.76	7.78	D.O. (mg/L)	7.93	7.93	7.65	7.69	7.33	7.51	7.67	7.42	7.80
Turbidity (NTU)	2.70	2.70	5.50	3.30	5.40	5.70	4.21	-		Turbidity (NTU)	4.80	3.20	4.80	4.50	9.10	7.40	5.61	-	
SS (mg/L)	8.0	5.0	8.0	6.0	12.0	8.0	7.83	-		SS (mg/L)	4.0	4.0	11.0	5.0	10.0	7.0	6.83	-	
Remarks										Remarks									

Station			(G1			1			Station			S	R4]		
Time (hh:mm)			23:49	-23:53						Time (hh:mm)			00:00	-00:04					
Water Depth (m)			12	.20						Water Depth (m)			10).10					
Monitoring Depth (m)	1.	20	6.	.00	11	.10				Monitoring Depth (m)	1.	00	5	.00	9.	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.2	17.2	17.3	17.3	17.4	17.4	17.28	-		Water Temperature (°C)	17.1	17.0	17.1	17.1	17.1	17.1	17.09	-	
Salinity (ppt)	31.7	31.7	31.9	31.9	32.3	32.3	31.96	-		Salinity (ppt)	31.5	31.5	31.6	31.6	32.1	32.1	31.74	-	
рН	7.9	7.9	7.9	7.9	7.8	7.8	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	99.6	99.5	99.1	97.9	99.9	97.8	98.96	-		D.O. Saturation (%)	99.5	99.4	98.8	98.4	95.7	99.3	98.53	-	
D.O. (mg/L)	7.92	7.92	7.86	7.77	7.88	7.72	7.85	7.80	7.87	D.O. (mg/L)	7.94	7.94	7.87	7.84	7.61	7.89	7.85	7.75	7.90
Turbidity (NTU)	2.50	2.60	3.20	4.20	3.80	4.20	3.42	-		Turbidity (NTU)	2.70	2.80	3.30	2.80	6.20	2.70	3.44	-	
SS (mg/L)	5.0	4.0	4.0	5.0	8.0	6.0	5.33	-		SS (mg/L)	5.0	4.0	4.0	5.0	10.0	8.0	6.00	-	
Remarks										Remarks									

Annex E10 - Water Quality Results at Airport during mid-flood tide for 23 January 2009

Sampling Date	23-01-09
Weather & Ambient Temperature	Fine

Mid-Flood

Station			(23			1			Station			ι	J2			1		
Time (hh:mm)			15:31	-15:34						Time (hh:mm)			16:07	-16:10					
Water Depth (m)			11	.10						Water Depth (m)			8.	00					
Monitoring Depth (m)	1.	.10	5	.30	10	.10				Monitoring Depth (m)	1.	.10	4.	00	7.	.00			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface& Middle	Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	Surface&Mi ddle
Water Temperature (°C)	17.4	17.4	17.4	17.4	17.4	17.4	17.39	-		Water Temperature (°C)	17.5	17.5	17.4	17.4	17.4	17.4	17.42	-	
Salinity (ppt)	32.0	32.0	32.2	32.3	32.4	32.4	32.21	-		Salinity (ppt)	31.0	30.9	31.5	31.2	31.5	31.6	31.27	-	
pH	7.8	7.8	7.7	7.7	7.7	7.7	7.72			рН	7.9	7.9	7.9	7.9	7.9	7.8	7.86		
D.O. Saturation (%)	102.9	101.6	97.2	96.5	98.3	97.0	98.93	-		D.O. Saturation (%)	104.2	105.0	101.0	101.5	102.1	101.6	102.55	-	
D.O. (mg/L)	8.13	8.03	7.67	7.62	7.76	7.66	7.81	7.71	7.86	D.O. (mg/L)	8.28	8.34	8.01	8.06	8.10	8.06	8.14	8.08	8.17
Turbidity (NTU)	2.50	2.60	3.10	3.50	3.40	3.40	3.12	-		Turbidity (NTU)	5.50	5.80	9.50	10.00	8.10	10.00	8.14	-	
SS (mg/L)	4.0	5.0	6.0	5.0	7.0	8.0	5.83	-		SS (mg/L)	7.0	8.0	12.0	12.0	13.0	17.0	11.50	-	
Remarks										Remarks									

Station			C	:4]			Station			S	R2					
Time (hh:mm)			16:38	-16:42						Time (hh:mm)			16:16	-16:19					
Water Depth (m)			9.	10						Water Depth (m)			5.	00					
Monitoring Depth (m)	1.	10	4.	50	8.	10				Monitoring Depth (m)	1.	.00	2.	60	4	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.5	17.5	17.5	17.5	17.4	17.4	17.44	-		Water Temperature (°C)	17.7	17.7	17.5	17.7	17.5	17.4	17.57	-	
Salinity (ppt)	30.8	30.7	31.1	31.0	31.9	31.9	31.22	-		Salinity (ppt)	31.0	30.9	31.4	30.8	31.4	31.6	31.16	-	
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	7.87		
D.O. Saturation (%)	112.5	112.9	106.6	108.3	104.8	103.0	108.02	-		D.O. Saturation (%)	103.1	104.7	101.4	104.6	103.6	101.1	103.06	-	
D.O. (mg/L)	8.95	8.99	8.46	8.60	8.29	8.15	8.57	8.22	8.75	D.O. (mg/L)	8.16	8.28	8.03	8.28	8.21	8.02	8.16	8.12	8.19
Turbidity (NTU)	2.60	2.60	4.00	3.70	7.60	7.90	4.75	-		Turbidity (NTU)	4.30	3.60	5.20	3.80	4.00	4.40	4.21	-	
SS (mg/L)	9.0	7.0	6.0	4.0	11.0	14.0	8.50	-		SS (mg/L)	6.0	6.0	8.0	5.0	9.0	7.0	6.83	-	
Remarks										Remarks									

Station			0)2			1			Station			S	R3			1		
Time (hh:mm)			16:27	-16:31						Time (hh:mm)			16:00	-16:03					
Water Depth (m)			8.	20						Water Depth (m)			12	10					
Monitoring Depth (m)	1.	10	4.	10	7.	00				Monitoring Depth (m)	1.	00	6.	10	11	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.5	17.5	17.5	17.5	17.4	17.4	17.44	-		Water Temperature (°C)	17.5	17.5	17.5	17.5	17.4	17.4	17.47	-	
Salinity (ppt)	30.1	30.1	30.8	30.6	31.7	31.7	30.82	-		Salinity (ppt)	30.6	30.6	31.5	31.3	31.8	31.9	31.28	-	
рН	7.9	7.9	7.9	7.9	7.8	7.9	7.88			рН	7.9	7.9	7.9	7.9	7.9	7.9	7.88		
D.O. Saturation (%)	111.2	111.2	106.7	107.7	102.3	100.2	106.57	-		D.O. Saturation (%)	108.9	109.4	106.9	107.7	104.1	104.2	106.86	-	
D.O. (mg/L)	8.88	8.89	8.49	8.57	8.11	7.94	8.48	8.03	8.71	D.O. (mg/L)	8.67	8.71	8.46	8.53	8.23	8.23	8.47	8.23	8.59
Turbidity (NTU)	2.70	2.50	3.30	4.60	5.60	6.40	4.18	-		Turbidity (NTU)	3.80	3.30	5.10	4.50	6.20	6.30	4.86	-	
SS (mg/L)	6.0	8.0	4.0	6.0	8.0	6.0	6.33	-		SS (mg/L)	6.0	5.0	8.0	7.0	9.0	12.0	7.83	-	
Remarks										Remarks									

Station			(61			1			Station			S	R4			1		
Time (hh:mm)			15:40	-15:44						Time (hh:mm)			15:52	-15:55					
Water Depth (m)			12	.20						Water Depth (m)			10).10					
Monitoring Depth (m)	1.	20	6	20	11	.10				Monitoring Depth (m)	1.	.10	5	.00	9.	.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&Mi
							averaged		Middle								averaged		ddle
Water Temperature (°C)	17.6	17.5	17.5	17.5	17.4	17.4	17.46	-		Water Temperature (°C)	17.5	17.5	17.4	17.5	17.4	17.4	17.45	-	
Salinity (ppt)	31.3	31.1	32.0	32.0	32.2	32.2	31.79	-		Salinity (ppt)	30.7	30.8	31.8	31.8	32.1	32.1	31.55	-	
pH	7.9	7.9	7.8	7.8	7.8	7.8	7.85			рН	7.9	7.9	7.9	7.9	7.9	7.8	7.87		
D.O. Saturation (%)	111.3	112.0	102.4	102.8	101.0	100.9	105.07	-		D.O. Saturation (%)	111.2	104.2	104.1	104.2	103.7	102.6	104.99	-	
D.O. (mg/L)	8.81	8.88	8.08	8.12	7.98	7.97	8.31	7.98	8.47	D.O. (mg/L)	8.84	8.28	8.23	8.24	8.20	8.10	8.32	8.15	8.40
Turbidity (NTU)	3.40	3.70	2.70	2.50	4.30	4.20	3.47	-		Turbidity (NTU)	3.00	2.70	2.80	2.70	3.50	3.50	3.07	-	
SS (mg/L)	6.0	6.0	4.0	5.0	7.0	9.0	6.17	-		SS (mg/L)	6.0	6.0	7.0	4.0	8.0	8.0	6.50	-	
Remarks										Remarks									

Annex E11 - Water Quality Results at Tuen Mun during mid-ebb tide for 24 January 2009

Date			24-0	1-09				
Station			C	1				
Time (hh:mm)			12:04	-12:07				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			8.	20				
Monitoring Depth (m)	1.	10	4.	10	7.	10		
Tide			mid t	o Ebb				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	17.0	17.0	17.0	17.0	17.0	17.0	16.97	
Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.72	-
pH	7.8	7.8	7.8	7.8	7.7	7.8	7.77	
D.O. Saturation (%)	93.6	93.0	94.3	93.1	97.7	93.1	94.12	-
D.O. (mg/L)	7.42	7.38	7.48	7.39	7.76	7.39	7.47	7.58
Turbidity (NTU)	3.13	2.93	3.44	2.83	3.34	2.83	3.08	-
SS (mg/L)	6.0	7.0	6.0	4.0	8.0	7.0	6.33	-
Remarks						-		

Date			24-0	1-09				
Station			C	2				
Time (hh:mm)			12:42	-12:46				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			13	.30				
Monitoring Depth (m)	1.	10	6.	60	12	.10		
Tide			mid t	o Ebb				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.8	16.9	16.9	16.9	16.9	16.9	16.89	-
Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.70	-
pH	7.9	7.9	7.9	7.8	7.9	7.8	7.85	
D.O. Saturation (%)	91.2	92.8	91.3	90.4	93.1	90.3	91.50	-
D.O. (mg/L)	7.26	7.38	7.26	7.18	7.40	7.17	7.28	7.29
Turbidity (NTU)	4.95	4.55	4.85	4.25	4.25	4.45	4.55	-
SS (mg/L)	8.0	6.0	6.0	6.0	7.0	6.0	6.50	-
Remarks					•			

Date			24-0	1-09				
Station			D	1				
Time (hh:mm)			12:34	-12:37				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			8.	10				
Monitoring Depth (m)	1.	20	4.	10	7.	00		
Tide			mid t	o Ebb				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.7	16.7	16.7	16.7	16.8	16.8	16.73	-
Salinity (ppt)	32.6	32.6	32.6	32.6	32.7	32.6	32.61	-
pH	7.9	7.8	7.9	7.8	7.9	7.9	7.85	
D.O. Saturation (%)	90.7	90.8	90.6	90.4	90.7	90.3	90.58	-
D.O. (mg/L)	7.24	7.25	7.23	7.21	7.22	7.20	7.23	7.21
Turbidity (NTU)	8.39	8.69	8.59	8.19	8.29	8.09	8.37	-
SS (mg/L)	9.0	10.0	10.0	11.0	14.0	13.0	11.17	-
Remarks						-		

Date			24-01	-09			1	
Station			U1				1	
Time (hh:mm)			12:14-1	2:17			1	
Ambient Temperature (°C)								
Weather			Fin	Э			1	
Water Depth (m)			8.0	C				
Monitoring Depth (m)	1.	10	4.	10	1	7.00		
Tide			mid to	Ebb				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-	Bottom
							averaged	
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.90	-
Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.73	-
pH	7.9	7.9	7.8	7.9	7.8	7.9	7.85	
D.O. Saturation (%)	92.6	92.0	92.9	91.8	93.8	91.8	92.47	-
D.O. (mg/L)	7.36	7.32	7.38	7.30	7.45	7.29	7.35	7.37
Turbidity (NTU)	3.13	3.24	4.25	3.13	3.34	3.24	3.39	-
SS (mg/L)	8.0	6.0	4.0	5.0	6.0	4.0	5.50	-
Remarks		•	•		-			

Date			7						
Station									
Time (hh:mm)									
Ambient Temperature (°C)									
Weather			Fin	е			1		
Water Depth (m)			5.1	0					
Monitoring Depth (m)	1.	1.10 2.60 4.10							
Tide		mid to Ebb							
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom	
Water Temperature (°C)	16.8	16.8	16.8	16.8	16.9	16.9	16.83	-	
Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.66	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.85		
D.O. Saturation (%)	91.1	91.0	91.1	90.9	91.2	90.8	91.00	-	
D.O. (mg/L)	7.25	7.24	7.26	7.23	7.25	7.22	7.24	7.24	
Turbidity (NTU)	10.21	9.60	10.11	9.60	9.60	9.60	9.79	-	
SS (mg/L)	12.0	12.0	15.0	14.0	11.0	-	12.80	-	
Remarks					-				

Annex E12 - Water Quality Results at Tuen Mun during mid-flood tide for 24 January 2009

Date			24-0					
Station			C					
Time (hh:mm)			17:02	-17:08				
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			8.	00				
Monitoring Depth (m)	1.	20	4.	10	7.	00		
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.8	16.8	16.8	16.8	16.9	16.9	16.83	-
Salinity (ppt)	32.8	32.8	32.8	32.8	32.8	32.9	32.84	-
рН	7.8	7.8	7.8	7.8	7.7	7.8	7.76	
D.O. Saturation (%)	93.6	93.2	93.7	92.5	93.3	92.4	93.11	-
D.O. (mg/L)	7.45	7.42	7.46	7.35	7.41	7.34	7.41	7.38
Turbidity (NTU)	2.53	2.63	2.63	3.03	3.44	3.64	2.98	-
SS (mg/L)	3.0	7.0	4.0	7.0	5.0	6.0	5.33	-
Remarks						-		

Date			24-0					
Station			0					
Time (hh:mm)			17:42					
Ambient Temperature (°C)								
Weather			Fi	ne				
Water Depth (m)			13	.10				
Monitoring Depth (m)	1.	30	6.					
Tide			mid to					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.9	16.9	16.9	16.9	16.9	16.9	16.86	-
Salinity (ppt)	32.8	32.8	32.8	32.8	32.8	32.8	32.76	-
	7.8	7.8	7.8	7.8	7.8	7.8	7.82	
D.O. Saturation (%)	93.4	93.1	93.8	92.7	95.3	92.7	93.51	-
D.O. (mg/L)	7.43	7.40	7.46	7.37	7.58	7.37	7.44	7.48
Turbidity (NTU)	2.73	2.43	3.24	3.03	3.03	3.03	2.92	-
SS (mg/L)	7.0	4.0	6.0	7.0	6.0	5.0	5.83	-
Remarks						-		

Date			24-0					
Station			D					
Time (hh:mm)			17:34	-17:37				
Ambient Temperature (°C)								
Weather			Fi					
Water Depth (m)			9.	20				
Monitoring Depth (m)	1.	10	4.					
Tide			mid to	Flood				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	16.8	16.8	16.8	16.8	16.8	16.8	16.82	-
Salinity (ppt)	32.7	32.8	32.7	32.7	32.7	32.7	32.74	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.82	
D.O. Saturation (%)	94.2	93.5	94.1	93.4	96.4	93.4	94.18	-
D.O. (mg/L)	7.50	7.44	7.49	7.43	7.68	7.43	7.50	7.56
Turbidity (NTU)	2.22	2.33	2.53	2.68	-			
SS (mg/L)	4.0	4.0	6.0	4.0	5.0	4.0	4.50	-
Remarks						-		

Date										
Station		1								
Time (hh:mm)		17:14-17:19								
Ambient Temperature (°C)										
Weather		Fine								
Water Depth (m)			9.5	0						
Monitoring Depth (m)	1.	1.10 4.50 8.30								
Tide		mid to Flood								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom		
Water Temperature (°C)	16.9	16.8	16.9	16.9	16.9	16.9	16.89			
Salinity (ppt)	32.8	32.8	32.8	32.8	32.8	32.8	32.79			
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.81			
D.O. Saturation (%)	94.3	93.6	94.2	93.3	96.1	94.6	94.34	-		
D.O. (mg/L)	7.50	7.45	7.48	7.41	7.63	7.51	7.50	7.57		
Turbidity (NTU)	2.33	2.53	2.83	3.03	3.34	3.13	2.87	-		
SS (mg/L)	3.0	5.0	6.0	4.0	4.0	6.0	4.67	-		
Remarks					-					

Date			7					
Station								
Time (hh:mm)								
Ambient Temperature (°C)								
Weather								
Water Depth (m)			5.1	0				
Monitoring Depth (m)	1.	10	2.	60		4.10		
Tide								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth- averaged	Bottom
Water Temperature (°C)	16.8	16.8	16.8	16.8	16.8	16.8	16.81	-
Salinity (ppt)	32.7	32.7	32.7	32.7	32.7	32.7	32.72	-
pH	7.8	7.8	7.8	7.8	7.8	7.8	7.82	
D.O. Saturation (%)	96.5	93.4	96.5	93.5	99.7	93.7	95.57	-
D.O. (mg/L)	7.68	7.44	7.68	7.44	7.94	7.46	7.61	7.70
Turbidity (NTU)	2.73	2.63	2.73	2.73	2.83	2.83	2.75	-
SS (mg/L)	4.0	7.0	6.0	6.0	4.0	6.0	5.50	-
Remarks					-			