

Permanent Aviation Fuel Facility (EP-262/2007/B)

Thirty-Seventh Monthly Environmental Monitoring and Audit Report – November 2009

24 December 2009

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Permanent Aviation Fuel Facility for Hong Kong International Airport

Environmental Certification Sheet EP-262/2007/B

Reference Document/Plan

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Reference EP Condition

Environmental Permit Condition:	Condition No.: 5.3
Content:	<i>Environmental Monitoring and Audit (EM&A) for the Project</i>
5.3	Four hard copies and one electronic copy of the monthly EM&A Report for the Project shall be submitted to the Director within 2 weeks after the end of the reporting month. The submissions shall be certified by the ET Leader and verified by the IEC before submission to the Director. Additional copies of the submission shall be provided upon request by the Director.

ET Certification

I hereby certify that the above referenced document/ plan complies with the above referenced condition of EP-262/2007/B	
	
Craig A Reid, Environmental Team Leader:	Date: 24 December 2009

IEC Verification

I hereby verify that the above referenced document/ plan complies with the above referenced condition of EP-262/2007/B	
	
Dr Guiyi Li, Independent Environmental Checker:	Date: 28 Dec 2009

Notes: EP-262/2007/B has replaced the former EP-262/2007/A, EP-262/2007 and EP-139-2002/A for the PAFF project after the resubmission of revised EM&A Manual and revised EIA Report respectively.


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24 December 2009

Prepared by: Francesca Zino/ Karen Lui/ Craig A Reid

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For and on behalf of Environmental Resources Management	
Approved by:	Craig A Reid
Signed:	
Position:	Environmental Team Leader
Date:	24 December 2009

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EXECUTIVE SUMMARY

The construction works for the Permanent Aviation Fuel Facility resumed on 9 July 2007. This **thirty-seventh** monthly Environmental Monitoring and Audit (EM&A) report presents the EM&A work carried out during the period from **1 November to 30 November 2009** in accordance with the *EM&A Manual*.

Breaches of all Action and Limit Levels

Water quality monitoring during dredging activities recorded no exceedance of Action or Limit Levels for bottom Dissolved Oxygen (DO). Exceedances of Depth-averaged DO were recorded on 13, 14, 15, 17, 21 and 23 November and of Depth-averaged Suspended Solids on 15, 17, 18 and 19 November. There were no exceedances of Limit levels for Depth-averaged Turbidity during the reporting period but on 18 November there were four exceedances of Action Levels for Depth-averaged Turbidity. Following review of data in accordance with the procedures specified in the *EM&A Manual*, all these exceedances were considered to be due to natural fluctuation rather than the Project Works.

Complaint Log

No environmental complaints were received during the reporting period.

Notifications of any Summons and Successful Prosecutions

No environmental summons or prosecutions were received in this reporting period.

Reporting Changes

There were no reporting changes in the reporting period.

Future Key Issues

- Dust release and suppression;
- Backfilling of rock armour over the pipelines;
- Dredging operation for the repair of pipeline; and
- Water quality monitoring and dolphin monitoring during the dredging activities.

Leighton Contractors (Asia) Limited (LCAL) has appointed ERM-Hong Kong, Limited (ERM) as the Environmental Team (ET) to implement the Environmental Monitoring and Audit (EM&A) programme for the Permanent Aviation Fuel Facility (the Project) during construction works.

The construction works for PAFF commenced in November 2005 based upon the previous EIA (*EIAO Register Number AEIAR-062-2002*) conducted and the Environmental Permit *EP-139/2002* granted on the 28th August 2002. Due to minor changes to the detailed layout of the site and the site boundary, application for Variation to the Environmental Permit (VEP) (*VEP-133/2004*) was submitted to the Director of Environmental Protection (DEP) for approval. The variation to the EP (*EP-139/2002/A*) was granted by the EPD in February 2004.

The decision by the EPD to grant the above Environmental Permit was, however, subject to a Judicial Review. The Judicial Review sided in the favour of the DEP, as did the subsequent Judgement from the Court of Appeal from the High Court for Judicial Review in March 2005. However, the DEP's decision to grant the EP was quashed by the Judgement of the Court of Final Appeal of July 2006.

The construction works were stopped following the Judgement of the Court of Final Appeal of July 2006. As such, in order to continue with the construction of the project, the project went through the statutory procedures under the EIAO again with a new design in order to obtain an environmental permit. The revised EIA was submitted in 2007 and the environmental permit (*EP-262/2007*) was granted in May 2007. *EP-262/2007* has been amended to *EP-262/2007/A* and issued by the EPD on 30 November 2007. A further Variation to the Environmental Permit was approved to allow dredging works to continue until March 2008. As such, *EP-262/2007/A* has been amended to *EP-262/2007/B* and was issued by the EPD on 27 February 2008.

The construction works and EM&A requirements were resumed on 9 July 2007 following the latest requirements of the *EP-262/2007/B* and *EM&A Manual*. Details regarding the EM&A requirements and changes should refer to the updated *EM&A Manual*. For the marine works, all piling activities were completed before the previous suspension of construction works in 2006.

1.1

PURPOSE OF THE REPORT

This is the **thirty-seventh** EM&A Report which summarizes the monitoring results and audit findings for the EM&A programme during the reporting period from **1 November to 30 November 2009**.

2 ENVIRONMENTAL STATUS

2.1 PROJECT AREA

The project area is in Area 38 of Tuen Mun and the pipelines are located in Urmston Road between Tuen Mun Area 38 and Sha Chau. The site is illustrated in *Annex A*.

2.2 ENVIRONMENTAL SENSITIVE RECEIVERS

No air and noise sensitive receivers were identified close to the project area. However, water sensitive receivers and ecological sensitive receivers were identified in the EIA study, and are shown in *Annex B*.

2.3 MAJOR CONSTRUCTION ACTIVITIES

A summary of the major works undertaken in this reporting period is shown in *Table 2.1*. Initial marine dredging operations were completed on 23 January 2009 but due to pipeline repairs, dredging works were resumed on 13 November 2009. *Table 2.2* presents the cumulative quantity of excavated materials from September 2008 up to 30 November 2009. Daily and cumulative dredging production rates are illustrated in *Figure 2.1*.

Table 2.1 Summary of Works Undertaken During the Reporting Period

Area	Works undertaken
Tuen Mun Area 38	<ul style="list-style-type: none"> • Tank Farm, Roof Truss and Bund Wall Construction • Permanent Drainage Construction • Operational & Fire Services Buildings Construction • Jetty Works (Non-piling) • Pre-Commission and Commissioning Activities for Phase 1A (the first four tanks)
Submarine Pipeline Route	<ul style="list-style-type: none"> • Riser connections at Sha Chau • Backfilling and placing of rock armour over the pipelines • Dredging operations

Table 2.2 Cumulative Quantity of Excavated Marine Sediments

Type of Excavated Materials	Cumulative Bulk Volume (m ³)
<i>From 17 December 2007 to 31 March 2008</i>	
Contaminated Mud	105,974
Uncontaminated Mud	97,815
<i>From 1 September 2008 to 23 January 2009</i>	
Contaminated Mud	0
Uncontaminated Mud	149,147

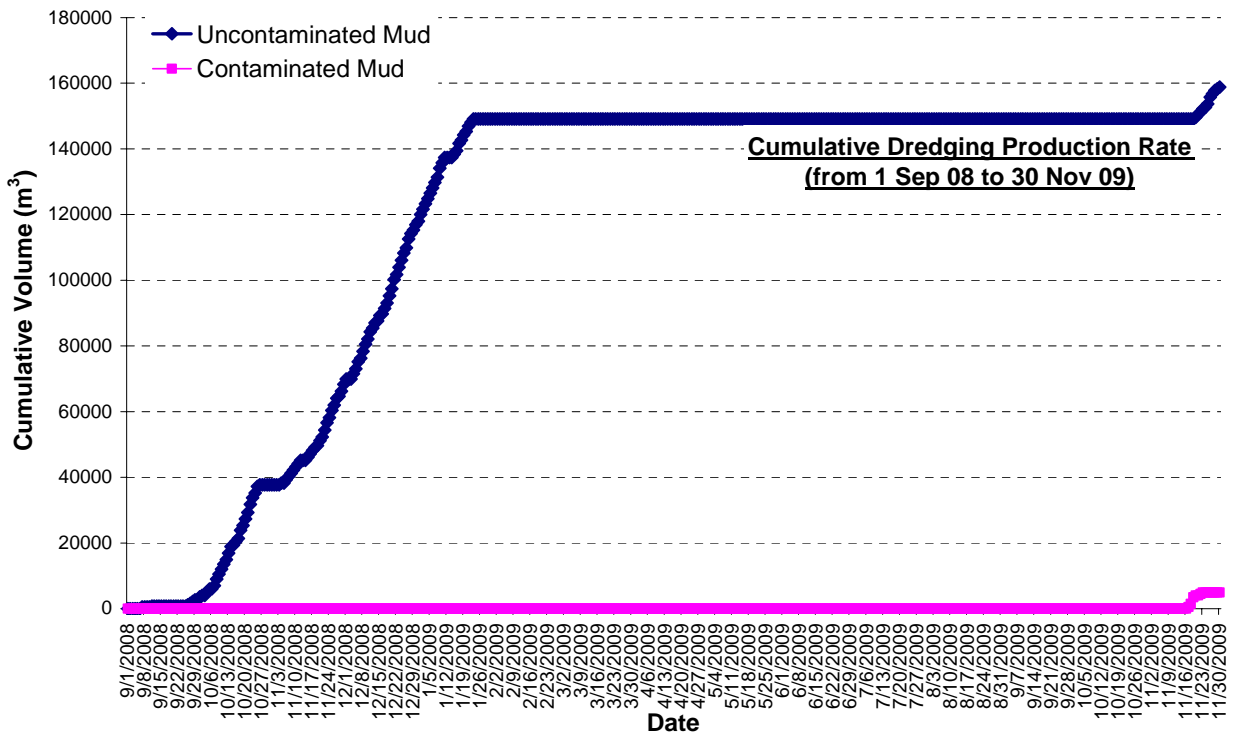
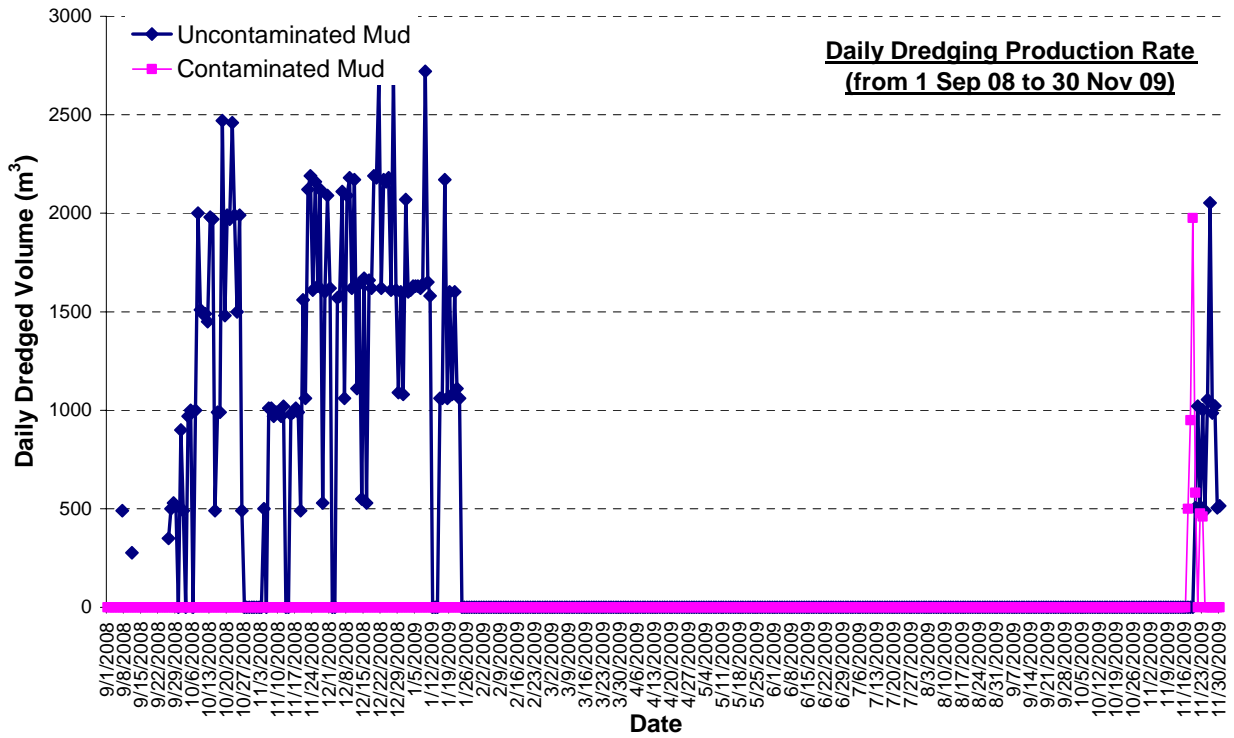


Figure 2.1 Daily and cumulative volumes (m³) of excavated materials (both contaminated and uncontaminated mud) from 1 September 2008 to 30 November 2009.



Type of Excavated Materials	Cumulative Bulk Volume (m ³)
<i>From 13 November 2009 to 30 November 2009</i>	
Contaminated Mud	4,944
Uncontaminated Mud	9,664

2.4 MONITORING SCHEDULE OF THE REPORTING MONTH

Daily water quality monitoring during dredging activities commenced on 13 November 2009. The monitoring schedule for November 2009 is presented in *Annex C*.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since July 2007 is presented in *Table 2.3*.

Table 2.3 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	<i>EP-262/2007/B</i>	Throughout Project	Issued on 27 February 2008 (<i>EP-262/2007/A</i> on 30 November 2007, <i>EP-262/2007</i> issued on 31 May 2007, <i>EP-139/2002</i> originally granted on 28 August 2002 and <i>EP-139/2002/A</i> granted on 24 February 2004 were superseded)
Chemical Waste Producer Registration	<i>WPN 5111-421-L2174-25</i>	Throughout Project	Issued on 10 November 2005
Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation	<i>H2104/U11D/5542/DG/DH/PL</i>	Throughout Project	Notification on 6 July 2007
Construction Noise Permit	<i>GW-RW0676-07</i>	21 December 2007 to 19 June 2008	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans and generators

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
	GW-RW0677-07	21 December 2007 to 29 February 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
	GW-RW0678-07	21 December 2007 to 18 June 2008	For marine jetty works including concrete pump derrick barges, hand-held grinders, generators, air compressors, boring machines, water pumps, tug boat, grout mixers and grout pumps
	GW-RW0094-08	1 March to 31 March 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
	GW-RW0312-08	04 July 2008 to 22 December 2008	For marine jetty works including concrete pump derrick barges, hand-held grinders, generators, air compressors, boring machines, water pumps, tug boat, grout mixers and grout pumps
	GW-RW0313-08	04 July 2008 to 19 December 2008	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans and generators
	GW-RW0373-08	1 August 2008 to 20 January 2009	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans, generators, stirrer, jet chisel, water jet machine and dehumidifier

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
	GW-RW0368-08	1 September to 30 November 2008	For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan
	GW-RW0054-09	16 February 2009 to 5 August 2009	For land-based and marine works including passenger launch, winch, welding machine, grinder, generator, power pack, tug boat, crane, air compressor, roller, hoist and derrick barge
	GW-RW0261-09	3 July 2009 to 3 November 2009	For land-based and marine works including derrick barge, grinder, crane, tug boat, drill, welding machine, hopper barge, motor sampan, air compressor
	GW-RW0299-09	21 July 2009 to 20 January 2010	For land-based works including air compressors, breakers, excavators, wheeled loaders, mobile cranes, concrete lorry mixers, hand-held pokers, bar benders/cutters, wood saws, grinders, submarine water pump, lorries with crane, dump trucks, rollers, ventilation fans, generators, stirrer, jet chisel, water jet machine and dehumidifier etc
	GW-RW0459-09	26 October 2009 to 28 February 2010	For marine dredging operation including air compressors, derrick barge, tug boat, mobile crane, hand-held grinder, generator, hand-held drill, winch, welding machine, motor sampan, grab dredger hopper barge etc
Marine Dumping Permit	EP/MD/08-064	13 December 2007 to 29 February 2008	For Type 1 - Open Sea Disposal
	EP/MD/08-065	13 December 2007 to 12 January 2008	For Type 1d & Type 2 marine disposal
	EP/MD/08-071	13 January 2008 to 12 February 2008	For Type 1d & Type 2 marine disposal
	EP/MD/08-090	3 March to 31 March 2008	For Type 1d & Type 2 marine disposal

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
	<i>EP/MD/08-091</i>	3 March to 31 March 2008	For Type 1 – Open Sea Disposal
	<i>EP/MD/09-018</i>	1 September to 30 September 2008	For Type 1d & Type 2 marine disposal
	<i>EP/MD/09-032</i>	1 October to 31 October 2008	For Type 1d & Type 2 marine disposal
	<i>EP/MD/09-017</i>	1 September to 30 November 2008	For Type 1 – Open Sea Disposal
	<i>EP/MD/09-039</i>	1 December 2008 to 31 January 2009	For Type 1 – Open Sea Disposal
	<i>EP/MD/10-041</i>	11 November 2009 to 31 December 2009	For Type 1 – Open Sea Disposal
	<i>EP/MD/10-042</i>	11 November 2009 to 10 December 2009	For Type 1 – Open Sea Disposal (Dedicated Site) & Type 2 – Confined Marine Disposal
Wastewater Discharge License	<i>EP760/421/011399/1</i>	15 March 2006 to 31 March 2011	Issued on 15 March 2006

2.6

COMMUNITY LIAISON GROUP MEETING

According to the EP requirements, a Community Liaison Group (CLG) was established within three months of commencement of construction of the Project. The major duty of the CLG is to advise on and monitor the proper design, construction and operation of the Project. The CLG comprises representatives from Airport Authority, members of Tuen Mun community and academics. During the reporting period, no meetings were organised by the CLG. The details of the CLG (including Membership and its Terms of Reference) and the minutes of previous meetings can be found on the Project website (<http://www.paffhk.com>).

2.7

SUMMARY OF NON-COMPLIANCE WITH THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

Water quality monitoring during dredging activities recorded no exceedance of Action or Limit Levels for DO Bottom. Exceedances of Depth-averaged DO were recorded on 13, 14, 15, 17, 21 and 23 November and of Depth-averaged Suspended Solids on 13, 15, 17, 18, 19 and 21 November. There were no exceedances of Limit levels for Depth-averaged Turbidity during the reporting period but on 18 November there were four exceedances of Action Levels for Depth-averaged Turbidity. A summary of the exceedances occurring during the reporting period is shown in *Table 2.4* and a description of the actions taken following these non-compliances is discussed in *Section 3.2*.

Table 2.4 Summary of Exceedances of Action and Limit Levels Recorded during the Reporting Period

Date	Parameter	Monitoring Stations	
		Mid-Ebb Tide	Mid-Flood Tide
13 Nov 2009	DO (Depth-averaged) SS (Depth-averaged)		IMO1*, IMO3*, IMO4* IMO4*
14 Nov 2009	DO (Depth-averaged)	IMO1, MPB1, MPB2	IMO1, IMO2, IMO3, IMO4, MPB1*, MPB2*, MP*
15 Nov 2009	DO (Depth-averaged) SS (Depth-averaged)	MPB1, MPB2, MP MP	IMO1*, IMO2, IMO3, IMO4, MPB2 IMO2*, IMO3, IMO4*
17 Nov 2009	DO (Depth-averaged) SS (Depth-averaged)	MPB1 MPB1*, MPB2, MP*	IMO1*, IMO2*, MP IMO1*, MPB1*, MPB2*, MP*
18 Nov 2009	Turbidity (Depth-averaged) SS (Depth-averaged)	IMO5*, MPB2* MPB1*, MPB2	IMO5*, MPB2* MPB1*
19 Nov 2009	SS (Depth-averaged)	MPB2*	IMO1*, IMO6*, MPB2*
21 Nov 2009	DO (Depth-averaged) SS (Depth-averaged)	IMO5*, IMO6* MPB1*	IMO6
23 Nov 2009	DO (Depth-averaged)		IMO5*

*Note: Action Level but not Limit Level exceedance

As per the requirements of the *EM&A Manual*, incidents were notified to the Franchisee's Site Representative, the Contractor and the Independent Environmental Checker upon identification of an exceedance.

2.8 SUMMARY OF ENVIRONMENTAL COMPLAINTS

No environmental complaints were received during the reporting period. A summary of environmental complaints since project commencement is presented in *Annex D*.

2.9 SUMMARY OF ENVIRONMENTAL SUMMONS

No summons was received in this reporting period. A summary of legal proceeding since project commencement is presented in *Annex D*

3.1 PREVIOUS ENVIRONMENTAL DEFICIENCIES AND FOLLOW-UP ACTIONS

As no environmental complaints were received over the last reporting period, no follow-up actions were required.

Site inspections were carried out by the ET on 6, 12, 19 and 26 November 2009. Overall, the site was in good orderly manner and no non-compliance was found. Environmental deficiencies and follow-up actions/mitigation measures were identified during the inspections, as follows:

Air Quality

- On 26 November, the air compressor near the Jetty area was found without a label or drip tray. The air compressor was evidently not yet in operation, but the Contractor was advised to ensure it had the correct label and a drip tray before starting operation.

Noise

- On 12 November, the CNP permit showing at the main site entrance showed an expiry date of 3 November 2009. The Contractor was advised to put up the new permit that had been obtained.

Water Quality

- On 6, 12 and 19 November, the sediment tanks near the middle, main entrance were left uncovered and a possible breeding ground for mosquitoes. The Contractor was advised to cover the sediment tanks as soon as possible.
- On 6 November, a pipe connection on the path leading from the main to the middle entrance was found to be leaking. The Contractor was asked to fix the connection as soon as possible.
- On 6 November, water was observed in the bunding around the generator in the Workshop area and on 19 November in the drip tray of the diesel drum near the Workshop area. The Contractor was advised to clear this immediately.
- On 12 November, a thin oil film was observed on the seawater by the jetty. Water coming out of the drainage system appeared clean and it was concluded that the oil film was probably not resulting from the PAFF site.
- On 19 November, dirty water was found behind the painting area by Tank 8. The Contractor was advised to clear the water as soon as

possible.

Waste/Chemical Management

- On 6, 12 and 19 November, scattered pieces of debris were found around the Tank Farm areas, on 12 November a stockpile of debris and construction waste was found just inside the middle entrance to the site and on 19 November wire debris was found behind a lorry by Tank 10. The Contractor was advised to collect all debris and dispose of it appropriately.
- On 6 and 12 November, black plastic bags and hosepipes were found deposited in the chemical waster storage area by Tank 10. The Contractor was advised to clear these to the appropriate place as soon as possible.
- On 19 November, the Contractor was advised to check the set-up of the paint area near Tank 8 to ensure it was safe and there was no contamination of the surrounding area. They were also advised to ensure that all empty paint cans were stored in the chemical waste facility.
- On 26 November, the dredging barge was inspected and there were insufficient waste receptacles. The Contractor was advised to ensure rubbish bins were provided on all levels of the barge and that they were of adequate capacity.
- On 26 November, oil was identified in the drip tray around the generator aboard the grab dredger and there was an open plastic bucket of oil near the generator. The Contractor was advised to clear the drip tray immediately and cover the plastic bucket.

General Housekeeping

- On 26 November, the electric hazard label on the generator aboard the grab dredger was illegible. The Contractor was advised to arrange for a new sign to be put in place.

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

3.2

DESCRIPTION OF ACTIONS TAKEN IN EVENT OF NON-COMPLIANCE AND DEFICIENCY REPORTING

Water quality monitoring during dredging activities recorded no exceedance of Action or Limit Levels for DO Bottom. Exceedances of Depth-averaged DO were recorded on 13, 14, 15, 17, 21 and 23 November and of Depth-averaged Suspended Solids on 13, 15, 17, 18, 19 and 21 November. There were no exceedances of Limit levels for Depth-averaged Turbidity during the

reporting period but on 18 November there were four exceedances of Action Levels for Depth-averaged Turbidity. A summary of the exceedances recorded during the reporting period is shown in *Section 2.7, Table 2.4* and graphical representations of the results are presented in *Annex G*. Descriptions of the actions taken following identification of non-compliance are discussed below.

Although dredging operations were undertaken during the reporting period, on examination of the results, it was concluded that all the exceedances described above were unlikely to be caused by the Project for the following reasons:

- Exceedances were found at monitoring stations upstream and downstream of dredging vessels that were not in operation (e.g. exceedance of Action Level of depth-averaged DO on 13 November 2009 at IMO3 and IMO4). The values were comparable to exceedances found at stations upstream and downstream of operational dredging vessels on the same day (eg exceedance of Action Level of depth-averaged DO on 13 November 2009 at IMO1).
- Not all parameters showed same trend of exceedances (e.g. on 14 November there were exceedances of Depth-averaged DO at various stations, but there were no exceedances of Bottom DO, Depth-averaged Turbidity and Depth-averaged Suspended Solid (SS) results at the same stations at the same tide)
- There have also been exceedances recorded from previous monitoring periods when dredging was not undertaken (e.g. 8 September 2008 with exceedances in DO values; 10 February 2008 with exceedances in Depth-averaged Turbidity and in SS).

As per the requirements of the *EM&A Manual*, incidents were notified to the Franchisee's Site Representative, the Contractor and the Independent Environmental Checker upon identification of an exceedance.

3.3

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The implementation status of environmental mitigation measures and requirements as stated in the *EIA Report, Environmental Permits* and *EM&A Manual* during the reporting period is summarized in *Annex E*.

4 ENVIRONMENTAL MONITORING

4.1 AIR AND NOISE

Air and Noise monitoring is not required for the project.

4.2 WATER QUALITY

In accordance to the EM&A Manual, during dredging activities, water quality monitoring commenced on 13 November 2009. QA/QC reports for Suspended Solids testing are presented in *Annex F*. Monitoring data and graphical presentations of the results are included in *Annex G*.

Results of the monitoring demonstrated that all measured Bottom dissolved oxygen (DO) levels at all Impact Stations were compliant with the Action and Limit Levels specified in the *EM&A Manual*. Concentrations of Depth-averaged Turbidity were also compliant with Action and Limit levels with the exception of 18 November. Exceedances for Depth-averaged DO and Suspended Solids were more frequent during the reporting period with exceedances in 13, 14, 15, 17, 21 and 23 November for Depth-averaged DO and in 13, 15, 17, 18, 19 and 21 November for Depth-averaged SS. A review of the above exceedances concluded that they were not attributable to Project works and were likely due to natural variation (see *Section 3.2* for further details).

4.3 POPs MONITORING

Biweekly monitoring of water samples was conducted for Persistent Organic Pollutants (POPs) analysis on 25 November. Total PCBs, PAHs and DDTs were all below detection limits. Monitoring results and QA/QC reports for the available POPs testing are presented in *Annex H*. The remaining results will be presented in the next Monthly Report.

4.4 WASTE MANAGEMENT

According to EP *Condition 3.3*, the Contractor's revised Waste Management Plan (Revision 5) (WMP), which has been certified by the ET and IEC, was submitted to the EPD on 5 November 2008.

4.5 CULTURAL HERITAGE

The *Watching Brief Report*, verified by the Independent Environmental Checker, was submitted to the EPD and AMO on 9 May 2008.

4.6 *LANDSCAPE AND VISUAL*

According to the *EIA report* and *EM&A Manual*, mitigation measures and site inspection are required during the landscaping/planting works. The berm/landscaping bund was habilitated by vegetation which was grown during the project suspension period.

The weekly site inspections included general audits on landscape and visual issues to ensure that the site was in an orderly and acceptable manner.

4.7 *LAND CONTAMINATION, HAZARD TO LIFE AND FUEL SPILL RISK*

According to the *EIA report* and *EM&A Manual*, mitigation measures and design phase audit are required to minimise the risk of fuel spill and hazards. In 2007, the Contractor submitted an updated design audit plan according to the EP requirements. These were certified and verified by the ET and IEC respectively and submitted to the EPD on 7 November 2007.

Pursuant to *Condition 3.5* of the EP, the Contractor submitted design drawings and supporting information according to the EP requirements. The ET certified the documents and submitted to the IEC for verification on 24 and 25 November 2009.

Weekly site inspection covered the waste management aspects which included measures to prevent land contamination by chemical wastes.

4.8 *ECOLOGY*

Dolphin Visual Monitoring

In accordance to *EM&A Manual*, dolphin monitoring was undertaken during dredging activities from when they started on 13 November 2009.

During the reporting period, a total of four dolphin sightings were recorded. Since no dolphin sightings were recorded within the exclusion zone, no action was considered necessary according to the *EM&A Manual*. The sighting locations and field records are presented in *Annex I*.

4.9 *EM&A MANUAL*

The *EM&A Manual* for the Project was updated by the ET to include the detailed arrangements of setting up a CLG, carrying out design audit, and monitoring of Persistent Organic Pollutants during the dredging phase of construction of the Project. The revised *EM&A Manual*, which was verified by the IEC, was submitted to the EPD on 1 April 2009.

4.10

BASELINE WATER QUALITY MONITORING

The *Final Baseline Monitoring Report* was submitted to the EPD on 20 February 2008 and placed under the EIAO register.

5 *FUTURE KEY ISSUES*

5.1 *KEY ISSUES FOR THE NEXT MONTH*

Key issue to be considered in the next month will be:

- dust release and suppression;
- backfilling of rock armour over pipeline;
- dredging operation for the repair of pipeline; and,
- Water quality monitoring and dolphin monitoring during the dredging activities.

5.2 *IMPACT PREDICTION FOR THE NEXT MONTH*

Provided that environmental mitigation measures including good on-site practises are properly implemented, it is not expected that unacceptable adverse impacts will arise.

Based on the water quality monitoring results recorded to date, it may be expected that further exceedances in Depth-averaged Dissolved Oxygen, Suspended Solids and possibly Turbidity may be recorded. However, as with those recorded so far, it is not expected that such exceedances would be attributable to Project Works.

5.3 *WORKS AND MONITORING SCHEDULE FOR THE NEXT MONTH*

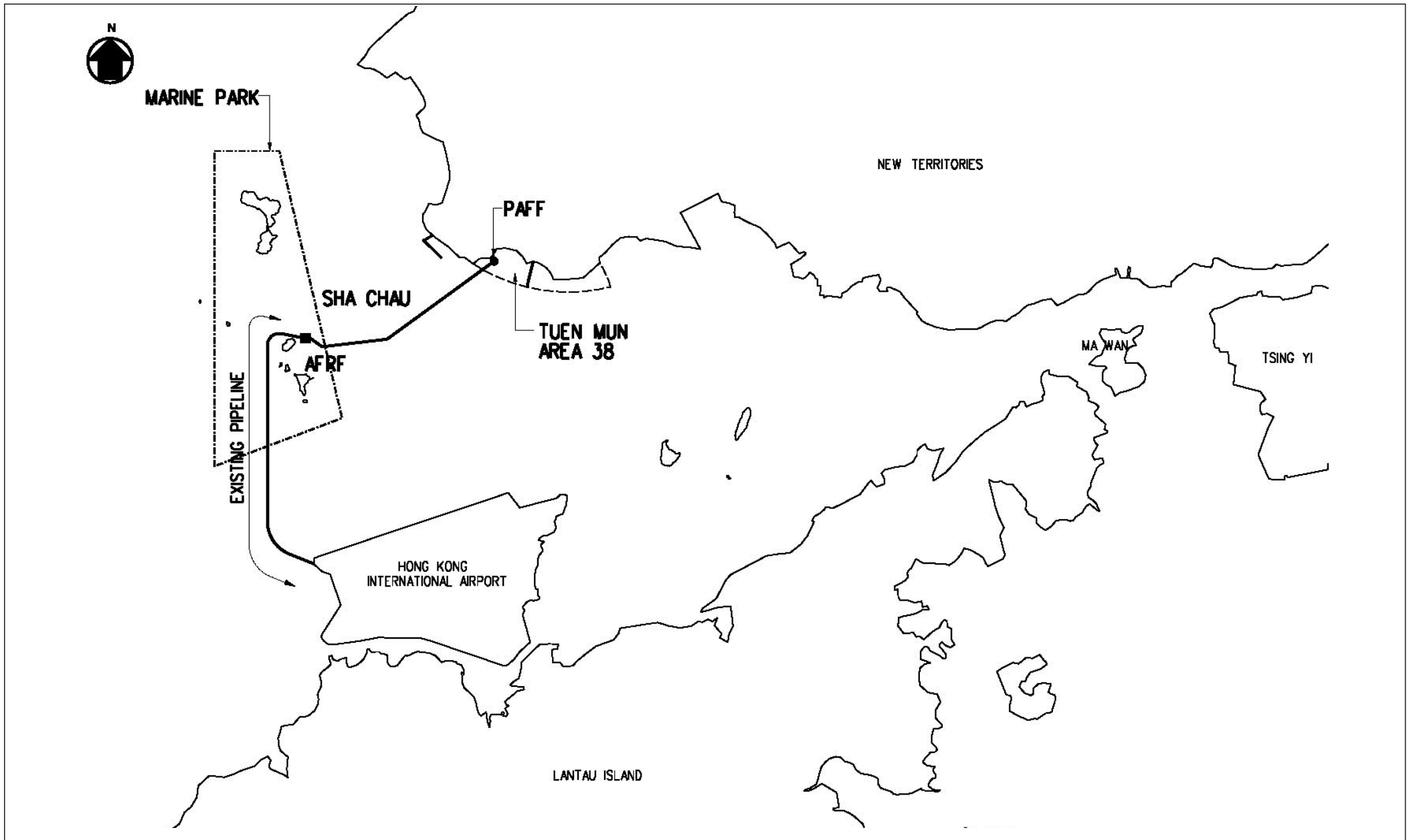
Work programme for the next month includes:

- backfilling and placing of rock armour works;
- dredging operation for the repair of pipeline;
- riser connections at Sha Chau;
- jetty platform works (non-piling);
- site works (construction works for tank farm, roof truss, drainages, bund wall, security wall and emergency vehicle access road etc); and,
- pre-commission and commissioning activities for Phase 1A (the first four tanks).

Weekly site inspections, water quality and dolphin monitoring will be undertaken in accordance with the *EM&A Manual*.

Annex A

Project Location



Annex A

Location of PAFF

FILE: 0018105bb1
DATE: 12/11/2007






Environmental
Resources
Management



Annex B

Water Quality and Ecological Sensitive Receivers

KEY

-  Control Stations
-  Impact Stations
-  Marine Park
-  Proposed Pipeline
-  Potential IMO1 & IMO2 Monitoring Zone

Marine Park
(Water Sensitive Receiver)

C2 (NM5)

C1 (NM3)

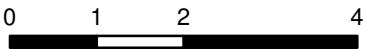
MPB1

MPB2

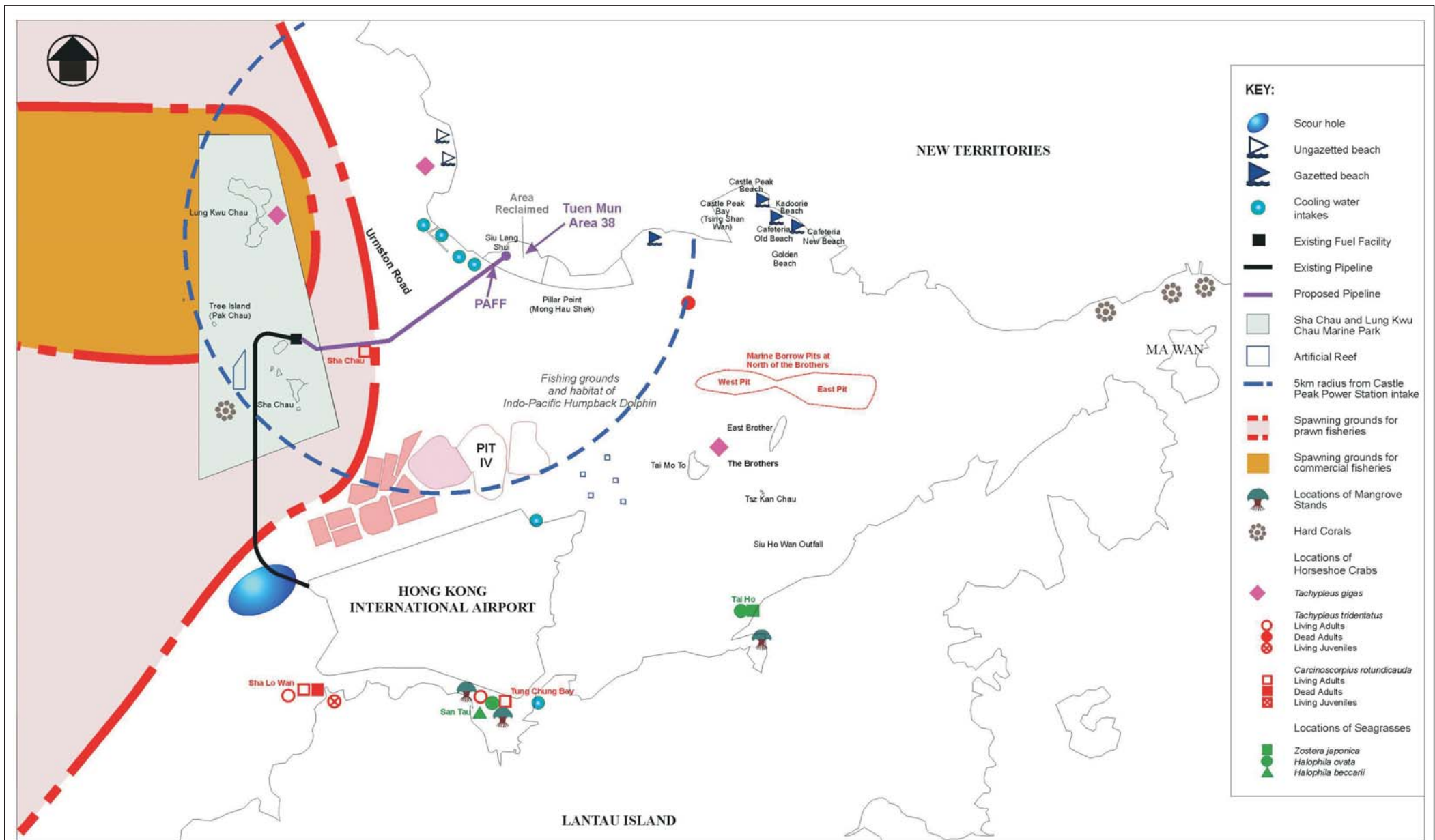
C3 (NM6)



Kilometers



Water Sensitive Receiver and Water Quality Monitoring Locations



Annex B

Water Quality and Ecological Sensitive Receivers

FILE: C2475aa
DATE: 12/11/2007

(Source : PAFF for Hong Kong International Airport EIA, Mouchel 2002)

Environmental
Resources
Management



Annex C

Water Quality Monitoring Schedule for the Reporting Period

Impact Water Quality Monitoring Schedule for November 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov
8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
					Mid-Ebb 10:08 Mid-Flood 16:24	Mid-Ebb 11:00 Mid-Flood 16:54
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
Mid-Ebb 11:49 Mid-Flood 17:24	Mid-Flood 7:03 Mid-Ebb 12:34	Mid-Flood 7:52 Mid-Ebb 13:14	Mid-Flood 8:38 Mid-Ebb 13:52	Mid-Flood 9:21 Mid-Ebb 14:28	Mid-Flood 10:04 Mid-Ebb 15:02	Mid-Flood 10:48 Mid-Ebb 15:33
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov
Mid-Flood 11:36 Mid-Ebb 15:57	Mid-Ebb 4:28 Mid-Flood 16:48	Mid-Ebb 5:09 Mid-Flood 17:33	Mid-Ebb 5:55 Mid-Flood 14:19 (POP SAMPLING)	Mid-Ebb 6:55 Mid-Flood 14:48	Mid-Ebb 8:10 Mid-Flood 15:16	Mid-Ebb 9:16 Mid-Flood 15:42
29-Nov	30-Nov					
Mid-Ebb 10:16 Mid-Flood 16:11	Mid-Ebb 11:07 Mid-Flood 16:42					

Annex D

Cumulative Complaints Statistics

CUMULATIVE STATISTICS OF COMPLAINTS**Summary of Environmental Complaints**

Reporting Period	Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
Before construction works	1	1	Dust
18/11/05 – 15/12/05	1	2	Dust
15/12/05 – 14/01/06	0	2	Nil
15/01/06 – 14/02/06	0	2	Nil
15/02/06 – 14/03/06	0	2	Nil
15/03/06 – 14/04/06	0	2	Nil
15/04/06 – 14/05/06	0	2	Nil
15/05/06 – 14/06/06	0	2	Nil
15/06/06 – 14/07/06	0	2	Nil
Re-commencement of construction works on 9 th July 2007			
09/07/07 – 31/07/07	0	2	Nil
01/08/07 – 31/08/07	0	2	Nil
01/09/07 – 30/09/07	0	2	Nil
01/10/07 – 31/10/07	0	2	Nil
01/11/07 – 30/11/07	0	2	Nil
01/12/07 – 31/12/07	0	2	Nil
01/01/08 – 31/01/08	0	2	Nil
01/02/08 – 29/02/08	0	2	Nil
01/03/08 – 31/03/08	0	2	Nil
01/04/08 – 30/04/08	0	2	Nil
01/05/08 – 31/05/08	0	2	Nil
01/06/08 – 30/06/08	0	2	Nil
01/07/08 – 31/07/08	0	2	Nil
01/08/08 – 31/08/08	0	2	Nil
01/09/08 – 30/09/08	0	2	Nil
01/10/08 – 31/10/08	0	2	Nil
01/11/08 – 30/11/08	0	2	Nil
01/12/08 – 31/12/08	0	2	Nil
01/01/09 – 31/01/09	0	2	Nil
01/02/09 – 28/02/09	0	2	Nil
01/03/09 – 31/03/09	0	2	Nil
01/04/09 – 30/04/09	0	2	Nil
01/05/09 – 31/05/09	0	2	Nil
01/06/09 – 30/06/09	0	2	Nil
01/07/09 – 31/07/09	0	2	Nil
01/08/09 – 31/08/09	0	2	Nil
01/09/09 – 30/09/09	0	2	Nil
01/10/09 – 31/10/09	0	2	Nil
01/11/09 – 30/11/09	0	2	Nil

Summary of Environmental Summons

Reporting Period	Environmental Summons		
	Frequency	Cumulative	Summon Nature
18/11/05 – 15/12/05	0	0	Nil
16/12/05 – 14/01/06	0	0	Nil
15/01/06 – 14/02/06	0	0	Nil
15/02/06 – 14/03/06	0	0	Nil
15/03/06 – 14/04/06	0	0	Nil
15/04/06 – 14/05/06	0	0	Nil
15/05/06 – 14/06/06	0	0	Nil
15/06/06 – 14/07/06	0	0	Nil

Re-commencement of construction works on 9th July 2007

09/07/07 – 31/07/07	0	0	Nil
01/08/07 – 31/08/07	0	0	Nil
01/09/07 – 30/09/07	0	0	Nil
01/10/07 – 31/10/07	0	0	Nil
01/11/07 – 30/11/07	0	0	Nil
01/12/07 – 31/12/07	0	0	Nil
01/01/08 – 31/01/08	0	0	Nil
01/02/08 – 29/02/08	0	0	Nil
01/03/08 – 31/03/08	0	0	Nil
01/04/08 – 30/04/08	0	0	Nil
01/05/08 – 31/05/08	0	0	Nil
01/06/08 – 30/06/08	0	0	Nil
01/07/08 – 31/07/08	0	0	Nil
01/08/08 – 31/08/08	0	0	Nil
01/09/08 – 30/09/08	0	0	Nil
01/10/08 – 31/10/08	0	0	Nil
01/11/08 – 30/11/08	0	0	Nil
01/12/08 – 31/12/08	0	0	Nil
01/01/09 – 31/01/09	0	0	Nil
01/02/09 – 28/02/09	0	0	Nil
01/03/09 – 31/03/09	0	0	Nil
01/04/09 – 30/04/09	0	0	Nil
01/05/09 – 31/05/09	0	0	Nil
01/06/09 – 30/06/09	0	0	Nil
01/07/09 – 31/07/09	0	0	Nil
01/08/09 – 31/08/09	0	0	Nil
01/09/09 – 30/09/09	0	0	Nil
01/10/09 – 31/10/09	0	0	Nil
01/11/09 – 31/11/09	0	0	Nil

Annex E

Implementation
Programme of Mitigation
Measures

ANNEX E IMPLEMENTATION SCHEDULE

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
Water Quality										
6.7	6.8.1	There should be no access to the shore or working from land within the Marine Park. No marine anchors shall be used within the Marine Park.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y		N/A	Complete
6.7	6.8.1	No hydraulic dredging within Marine Park.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y		N/A	Completed
6.7	6.8.1	Dredging for pipeline trench should be timed to coincide with maintenance dredging for Sha Chau AFRF marine access channel if relevant.	Sha Chau ARFR Marine access channel	Airport Authority	TMEIA		Y		N/A	Completed
6.4		The work rate for dredging should not exceed 4,000 m ³ /hr for the TSHD and 7,000 m ³ /day for the grab dredger.	Marine Park / Pipeline Dredging	Contractor	TMEIA		Y		N/A	Completed
6.7	6.8.1	Standard good dredging practice measures shall be written in the dredging contract.	Marine Park / Pipeline Dredging	Franchisee	TMEIA		Y		N/A	Completed
6.7	6.8.1	Use of Lean Material Overboard (LMOB) systems shall be prohibited. No mud overflow is to be permitted for dredging using TSHD.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Not applicable
6.7	6.8.1	Mechanical grabs shall be designed and maintained to avoid spillage and should seal tightly while being lifted.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed
6.7	6.8.1	Barges and hopper dredgers shall have tight fittings seals to their bottom openings to prevent leakage of material.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Not applicable
6.7	6.8.1	Loading of barges and hoppers shall be controlled to prevent splashing of dredged material to the surrounding water. Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed
6.7	6.8.1	Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed
6.7	6.8.1	Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed
6.7	6.8.1	All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed
6.7	6.8.1	The works shall not cause foam, oil, grease, letter or other objectionable matter to be present in the water within and adjacent to the works site.	Dredged areas/ Pipeline Dredging	Contractor	TMEIA Marine Fill Committee Guidelines. DASO permit conditions		Y		N/A	Completed

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Placement of pipeline trench backfill should be undertaken in a controlled manner to minimise impacts. Backfilling with rock should be undertaken either down pipe or by a reverse grab operation or other controlled technique to ensure that this material does not mound on the seabed	Pipeline trench/ Pipeline Dredging	Contractor	TMEIA Minimise disturbance		Y		N/A	Ongoing
6.7	6.8.1	Wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Storm drainage should be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sandbag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Temporary access roads should be surfaced with crushed stone or gravel.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Open stockpiles of construction materials (e.g. aggregates and sand) onsite should be covered with tarpaulin or similar fabric during rainstorms.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	All vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	The section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	The contractors shall prepare oil/chemical cleanup plan and ensure that leakages or spillages are contained and cleaned up immediately.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	6.8.1	Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.	Land site/ Throughout construction period	Contractor	TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	6.8.1	Wastewater from pipe commissioning dewatering exercises shall be stored on site and for chemical analysis and safe disposal in accordance with the WPCO.	Tank Farm/Tank farm commissioning	Franchisee	TMEIA WPCO TM on Effluent Standards		Y		N/A	Ongoing
6.7	Section 6	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	Land site/ Throughout construction period	Contractor	EM&A Manual		Y		N/A	Ongoing
6.7	Section 6	Submarine section of aviation fuel pipeline shall be covered with rock armour protection which shall not protrude above the level of the adjacent natural seabed.	Submarine pipeline	Franchisee	TMEIA Rock armour to minimum thickness of 1m	Y	Y		Franchisee	Ongoing
6.7	Section 6	Detailed emergency response procedures shall be drawn up. These will include requirements to maintain floating oil booms, absorbent materials and skimmers on site at all times.	All facilities	Franchisee	TMEIA Industry Standards e.g. Oil Companies International Marine Forum			Y	Franchisee	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.7	Section 6	Coupling points on the jetty will be protected with slop collection utilities.	Jetty	Franchisee	TMEIA Rock armour to minimum thickness of 1m		Y		Franchisee	On going
6.7	Section 6	Auxiliary tanks shall be permanently maintained at the tank farm for recovered fuel and slops.	Tank farm	Franchisee	TMEIA			Y	Franchisee	Pending
6.7	Section 6	Oily drainage systems and slop collection systems will connect to an oil/water separator.	Tank farm	Franchisee	TMEIA Industry Standards e.g. Oil Companies International Marine Forum		Y		Franchisee	On going
6.7	Section 6	All tanks shall be bunded to a capacity of at least 150% of the largest individual tank in each compound by 2040. Tank pits shall be protected by an impermeable bed (e.g. geotextile sheeting) to prevent seepage of aviation fuel to ground. A leak detection system shall be installed beneath the containment membrane.	Tank farm	Franchisee	TMEIA Hong Kong Code of Practice for Oil Installations, 1992		Y		Franchisee	On going
6.7	Section 6	There shall be no direct outlet from the bund. A collection pump shall be included in the base. Removal of accumulated rainwater shall be activated manually and discharged to storm drain via an oil/water separator.	Tank farm	Franchisee	TMEIA		Y		Franchisee	On going
6.7	Section 6	Contingency procedures shall be drawn up to ensure containment and safe disposal of any fuel lost from tanks or pipework. Suitable absorbent materials (e.g. sand or earth) shall be kept on site to deal with spillages.	Tank farm	Franchisee	TMEIA Hong Kong Code of Practice for Oil Installations, 1992			Y	Franchisee	Pending
6.7	Section 6	Valves shall be installed within the storm drainage system to facilitate the retention of spillages.	Tank farm	Franchisee	TMEIA		Y		Franchisee	On going

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
6.10	Section 6	Water quality monitoring shall be undertaken for suspended solids, turbidity, and dissolved oxygen.	Design monitoring stations as defined in EM&A Manual, section 6. Construction period when dredging takes place within 1000m of Marine Park and along entire length of the pipeline	Contractor	EM&A Manual		Y		N/A	Completed
6.10	Section 6	Routine water quality monitoring in the vicinity of the PAFF site to check the effectiveness of the proposed precautionary measures implemented for on-site spill control. The details of the monitoring to be undertaken will be prepared by the Franchisee as part of the PAFF Operations Manual and the details will be agreed with the relevant authorities prior to the commencement of operation of the PAFF. Monitoring should include but not be limited to the parameters of TPH and PAH and reference should be made to the existing monitoring programme undertaken for the fuel tank farm on the HKIA platform.	Operational phase. Location and frequency to be determined and agreed with relevant authorities	Franchisee	EM&A Manual		Y		N/A	Pending
Ecology 7.8	5.3	Undertake post construction dolphin abundance monitoring.	Construction	Contractor	TMEIA		Y		N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
7.8	5.3	A 500m dolphin exclusion zone shall be implemented and dredging shall not begin until the observer has confirmed that the area has been clear for 30 minutes.	250m around dredger/throughout dredging in Marine Park and along the length of pipeline	Contractor	TMEIA		Y		N/A	Completed
7.8	5.3	Avoidance of dolphin main calving season between March and August.	Throughout dredging in Marine Park and along the length of the pipeline	Contractor	TMEIA		Y		N/A	Completed
Landscape & Visual										
8.10	7.2.1	The construction programme for the PAFF should be reduced to the shortest possible period.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	The extent and periphery of the works areas should be managed so that they are as small as possible and do not appear cluttered, untidy and unattractive, particularly to road traffic along Lung Mun Road.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	Temporary hoarding barriers should be of a recessive visual appearance in both colour and form.	PAFF site / throughout construction period	Contractor	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Materials should be stored in areas with the least obstruction to residents, pedestrians and traffic.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing
8.10	7.2.1	All material stockpiles should be covered with an impermeable material and sandbagging diversions should be placed around exposed soil.	PAFF site / throughout construction period	Contractor	TMEIA		Y	Y	N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
8.10	7.2.1	Conservation of existing and imported soil resources.	PAFF site / throughout construction period of fuel tank expansion	Contractor	TMEIA			Y	N/A	Ongoing
8.10	7.2.1	A landscape perimeter bund comprising containment bund-wall, access road and planting buffer shall be built and maintained around the tank farm.	PAFF site / throughout construction period	Project Proponent	TMEIA	Y	Y	Y	Franchisee	Ongoing
8.10	7.2.1	The design of the PAFF should incorporate materials, details and textures which are visually recessive.	PAFF site / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Colours should be of low chromatic intensity to reduce the potential contrast between the structure and their background.	PAFF site tanks / design	Project Proponent	TMEIA	Y	Y		N/A	Ongoing
8.10	7.2.1	Visually recessive security fencing should be used around the perimeter.	Site perimeter	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Minimum amount of lighting for the tanks shall be used, only applied for safety at the key access points and staircases.	Tanks / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Limited lighting intensity on the site.	PAFF site / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing
8.10	7.2.1	Directional down lighting is suggested to minimise light spill to the surrounding area.	PAFF site / Operational phase	Project Proponent	TMEIA	Y	Y	Y	N/A	Ongoing

Cultural Heritage

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
9.8.1	9.2.1	<p>Undertake a watching brief during dredging of the pipeline within 25m either side of anomalies SS1 and SS2. This should comprise:</p> <ul style="list-style-type: none"> Dredge operators to be made aware of the potential presence of cultural heritage material. The operators would be required to report to the AMO any unusual resistance and/or recovery of timbers, anchors or other wreck related material. Any obstacles encountered during the dredging that are of timber should be reported to the marine archaeologist. The obstacle should be avoided and not removed until it has been assessed by the marine archaeologist as to whether the obstacle is of cultural heritage importance; A marine archaeologist shall be on board the dredging barge during dredging within 25m either side of SS1 and SS2 in the event of any unusual resistance occurring or blockages which requires the dredge head to be brought on deck for cleaning and examination; and, Dredging to cease in the nominated area SS1 after 3 meters of sediment removal and after 1 metre for SS2. A dive survey will then be undertaken to examine the trench for possible cultural remains. 	Within vicinity of SS1 and SS2	Franchisee	TMEIA		Y		N/A	Completed

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
9.8.2	9.2.1	During the course of the watching brief, if the targets are identified as being potentially archaeologically important, then an immediate marine archaeological impact assessment in accordance with EIAO TM Annex 19 will be required to be undertaken by a qualified marine archaeologist.	With vicinity of SS1 and SS2	Franchisee	TMEIA		Y		N/A	Not applicable
9.8.4	9.2.1	Any changes, additions or alterations to the dredging method and alignment should be further assessed by marine archaeologist to determine if any further assessment is required.	Pipeline alignment	Franchisee	TMEIA		Y		N/A	Not applicable
Fuel Spill Risk										
11.4.1	10.2	Tank farms will be constructed in a bunded area surrounding the tanks which will have collection capacity of 150% of the maximum content of the largest tank.	Tank farm / Design Phase	Franchisee	TMEIA		Y		N/A	On going
11.4.1	10.2	Emergency shut down valves shall be installed within the wider site storm drainage system.	Tank farm / Design Phase	Franchisee	TMEIA		Y		N/A	On going
11.4.1	10.2	An impermeable membrane shall be installed in the tank foundation beneath the tank bottom.	Tank farm / Design Phase	Franchisee	TMEIA		Y		N/A	On going
11.4.1	10.2	Pipeline to be covered with a protective rock armour layer.	Pipelines/ Design Phase	Franchisee	TMEIA		Y		Franchisee	On going
11.4.1	10.2	An integrated leak detection system shall be installed to all pipelines to provide early detection of any leak.	Pipelines/ Design Phase	Franchisee	TMEIA		Y		N/A	On going
11.4.1	10.2	An automatic shut-off system shall be implemented for pipelines.	Pipelines/ Design Phase	Franchisee	TMEIA		Y		N/A	On going
11.4.1	10.2	A workboat shall be on standby at the jetty during tanker berthing.	Jetty/ During Tanker Berth	Franchisee	TMEIA		Y	Y	N/A	Pending
11.4.1	10.2	Skimmers shall be available for quick deployment in case of a spill.	Jetty/ During Tanker Berth	Franchisee	TMEIA		Y	Y	N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
11.4.1	10.2	An emergency response plan shall be prepared prior to the operation of the PAFF.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y	Y	N/A	Pending	
11.4.1	10.2	Operator-training programme shall be implemented.	Jetty/ During Tanker Berth	Franchisee	TMEIA	Y	Y	N/A	Pending	
11.6	10.4	During the planning of the later phase of the tank farm development, in order to ensure that the required mitigation measures are undertaken at that time, review the EIA report only if the latest technology, industrial standards and statutory requirements have changed by that time.	During planning stage for future tank construction	Franchisee	TMEIA		Y	N/A	Pending	
11.6	10.4	Regular inspections and audits will be undertaken by the Franchisee during the operational phase of the facility: <ul style="list-style-type: none"> • Two inspections every year of the tank farm, jetty and pipelines including one undertaken pursuant to the Joint Inspection Group (JIG) explained above; • Inspection of the whole sub sea pipelines every 5 to 10 years; • Health, Safety and Environmental audit of the facility once every 3 years; and, • Inspection of the structural integrity of the tanks once per year. 	Operation	Franchisee	TMEIA		Y	N/A	Pending	

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
11.6	10.4	Prepare an Environmental Management Plan to ensure the on-going adequacy of the fuel spill contingency plan and that it is being implemented as required and that the above mitigation measures have been incorporated and are effective.	Prior to the start of operation of the PAFF with audits every 12 months	Franchisee	TMEIA			Y	N/A	Pending
Land Contamination										
13.5.1	10.2	Bunding shall be provided by all fuel storage areas to at least 150% of largest individual tank in each compound.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Relevant design standards for storage tanks, pipework, containment and drainage shall be adhered to.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Plant inspections and maintenance shall be undertaken once per month.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.1	10.2	Impermeable lining shall be provided for all tank pits.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Leak detection systems shall be provided to all valves.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	On going
13.5.1	10.2	Surface drainage shall be contained and treated prior to discharge.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.1	10.2	Emergency spill response plans shall be prepared.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	Pending
13.5.1	10.2	Spill control materials and equipment shall be provided on site.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	Pending
13.5.1	10.2	Runoff from the rood of site buildings and landscaped areas shall be conveyed in closed drains to the nearest storm water drain to prevent the generation of excessive quantities of surface water which may be polluted.	Tank farm / Design	Franchisee	TMEIA	Y		Y	N/A	On going
13.5.5	10.2	Suitable absorbent materials (e.g. sand or earth) shall be kept on site to deal with spills. Chemical dispersants shall not be employed.	Tank farm / Design	Franchisee	TMEIA	Y			N/A	Pending

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
13.5.5	10.2	The facility shall be designed, constructed, operated and maintained in full accordance with the Code of Practice for Oil Installations, 1992.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Tank pressure testing shall be carried out routinely to check for possible tank leaks. Product inventory monitoring shall be integrated into site management procedures to check for any abnormal or unexpected product loss.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Tank overflow monitoring systems shall be installed and regularly tested. Inlet valves shall be designed to automatically shutdown on exceedance of "high-high level" to prevent over-filling.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Pipe leakages shall be routinely checked for by means of a pressure sensitive leak detection system and routine inventory control.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	Drainage from areas of hardstanding shall be treated by means of oil/water separators prior to discharge to storm drain. All surface drainage shall be fitted with closure valves to provide additional containment and facilitate clean up of any leaks.	Tank farm / Design	Franchisee	TMEIA	Y	Y	Y	N/A	On going
13.5.5	10.2	The delivery pipeline from the jetty and the supply line to the airport shall be fitted with pressure sensitive leak detectors.	Tank farm / Design	Franchisee	TMEIA	Y	Y		N/A	On going
Waste Management										
14.7.2	8.3.1	The Contractor shall identify a coordinator for the management of waste.	Contract mobilisation	Contractor	TMEIA		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	The waste coordinator shall prepare and implement a Waste Management Plan which specifies procedures such as ticketing system, to facilitate tracking of loads and to ensure that illegal disposal of waste does not occur, and protocols for the maintenance of records of the quantities of wastes generated, recycled and disposal.	Contract mobilisation	Contractor	TMEIA, Works Branch Technical Circular No. 5/99 for the Trip-ticket System for Disposal of Construction and Demolition Material		Y		N/A	Ongoing
14.7.2	8.3.1	The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges.	Contract mobilisation	Contractor	TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance.		Y		N/A	Ongoing
14.7.2	8.3.1	No waste shall be burnt on site.	PAFF Site throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Excavated material shall be used on site for purposes of landscaping or formation of bund walls as far as possible.	All site / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	All material shall be reused on site as far as practicable, including formwork plywood, topsoil and excavated material.	All site / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Suitable provisions shall be included in the construction contract to ensure that the Contractor sorts and recycles waste.	Contract preparation stage	HyD	TMEIA	Y			N/A	Ongoing
14.7.2	8.3.1	Re-use and recycling of waste must always be considered first. Waste disposal shall only be undertaken in the last resort. Any surplus material generated shall be sorted on site into construction and demolition (C&D) waste and the public fill fraction. A sorting facility shall be set up on the site.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	The site and surroundings shall be kept tidy and litter free.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	The C&D waste shall be disposed of at a licensed landfill or deposited at an authorised waste transfer facility and the material suitable for public fill delivered to a public filling area, public filling barging point or public fill stockpile area after obtaining the appropriate licence.	CEDD pubic fill stockpile in Mui Wo, North Lantau or Mui Wo refuse transfer stations / Throughout construction	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Stockpile material shall avoid vegetated areas.	All areas / throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	Stockpiles shall be covered by tarpaulin and/or watered as required.	All areas / throughout construction period, particularly during dry season	Contractor	TMEIA, Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
14.7.2	8.3.1	Storage of material on site should be kept to a minimum.	All areas / throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	Excavated material in trucks shall be covered by tarpaulins.	All areas, particularly at site exits / throughout construction period	Contractor	TMEIA, Reduce the potential for spillage and dust. Public Health and Municipal Services Ordinance (Cap 132) and the Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
14.7.2	8.3.1	Wheel washing facilities shall be used by all trucks leaving the site to prevent the transfer of mud onto public roads.	Site entrances and exits / throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances (Regional Council) By-laws		Y		N/A	Ongoing
14.7.2	8.3.1	Suitable chemical waste storage areas should be formed at the works site for temporary storage pending collection.	Works site / throughout construction period	Contractor	TMEIA, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A Guide to the Chemical Waste Control Scheme		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical waste treatment facility at Tsing Yi / throughout construction period	Contractor	TMEIA, Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. A Guide to the Chemical Waste Control Scheme		Y		N/A	Ongoing
14.7.2	8.3.1	Temporary storage areas for general refuse should be enclosed to avoid environmental impacts.	All areas/ throughout construction period	Contractor	TMEIA, Public Health and Municipal Services Ordinance		Y		N/A	Ongoing
14.7.2	8.3.1	Sufficient dustbins should be provided for storage of waste.	All areas/ throughout construction period	Contractor	TMEIA, Public Cleansing and Prevention of Nuisances Ordinance (Regional Council) By-laws, Public Health and Municipal Services Ordinance		Y		N/A	Ongoing
14.7.2	8.3.1	General refuse should be cleared daily and should be disposed of to the nearest licensed facility.	All areas, WENT landfill or NWNT refuse transfer stations/ throughout construction period	Contractor	TMEIA, Sanitation and Conservancy (Regional Council) By-laws		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	Waste oils, chemicals or solvents shall not be disposed of to drain.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Good site practice shall be implemented to avoid waste generation and promote waste minimisation.	PAFF site/ throughout construction period	Contractor	TMEIA		Y			Ongoing
14.7.2	8.3.1	Waste materials such as paper, metal, timber and waste oil shall be recycled as far as practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Temporary structures used during construction shall be provided in the form of proprietary Protakabin type units sited on areas of permanent hard paving units as far as practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Sea Ordinance.	PAFF site/ throughout construction period				Y		N/A	Completed
14.7.2	8.3.1	All waste containers shall be in good condition and fitted with lids or covers to prevent waste from escaping or the ingress of water.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	All waste containers shall be in a secure area on hardstanding.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Emergency equipment to deal with any spillage or fire shall be kept on site.	PAFF site/ throughout construction period		TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	All containers used for storage of chemical waste shall be maintained in good condition and clearly labelled in both English and Chinese.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing

EIA Reference	EM&A Manual Reference	Environmental Protection Measures	Location / Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Schedule			Maintenance Agency	Implementation Status
						D	C	O		
14.7.2	8.3.1	All storage areas for chemical waste shall be: <ul style="list-style-type: none"> Clearly labelled; Enclosed on at least 3 sides; Have impermeable floor and bunding sufficient to fully retain any spillage or leakages; Ventilated; and, Covered to prevent rainfall from entering. 	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	All types of asbestos including sources (such as clutch linings) shall be treated as chemical waste. Asbestos containing wastes shall be kept separate from other wastes.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	All leaking containers shall be contained and removed from site as soon as is reasonably practicable.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2	8.3.1	Training shall be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.	PAFF site/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing
14.7.2 Section 5	8.3.1	EM&A of waste handling, storage, transportation, disposal procedures and documentation through the site audit programme shall be undertaken.	All areas/ throughout construction period	Contractor	TMEIA		Y		N/A	Ongoing

Annex F

QA/QC Results for
Laboratory Testing of
Suspended Solids



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS FRANCESCA ZINO	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0923817
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 13-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 18-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 86
<i>Site</i>	: ---				- <i>Analysed</i> : 86

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923817 supersedes any previous reports with this reference. The completion date of analysis is 17-NOV-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 HK0923817 : **Sample(s) were collected by ALS Technichem (HK) staff on 13 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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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.

<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics



Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[13-NOV-2009]	HK0923817-001	8			
MPB1 MID-EBB S DUP	[13-NOV-2009]	HK0923817-002	7			
MPB1 MID-EBB M	[13-NOV-2009]	HK0923817-003	9			
MPB1 MID-EBB M DUP	[13-NOV-2009]	HK0923817-004	9			
MPB1 MID-EBB B	[13-NOV-2009]	HK0923817-005	8			
MPB1 MID-EBB B DUP	[13-NOV-2009]	HK0923817-006	9			
MPB2 MID-EBB S	[13-NOV-2009]	HK0923817-007	12			
MPB2 MID-EBB S DUP	[13-NOV-2009]	HK0923817-008	12			
MPB2 MID-EBB M	[13-NOV-2009]	HK0923817-009	12			
MPB2 MID-EBB M DUP	[13-NOV-2009]	HK0923817-010	14			
MPB2 MID-EBB B	[13-NOV-2009]	HK0923817-011	19			
MPB2 MID-EBB B DUP	[13-NOV-2009]	HK0923817-012	19			
MP MID-EBB S	[13-NOV-2009]	HK0923817-013	13			
MP MID-EBB S DUP	[13-NOV-2009]	HK0923817-014	12			
MP MID-EBB B	[13-NOV-2009]	HK0923817-017	13			
MP MID-EBB B DUP	[13-NOV-2009]	HK0923817-018	13			
IMO1 MID-EBB S	[13-NOV-2009]	HK0923817-019	19			
IMO1 MID-EBB S DUP	[13-NOV-2009]	HK0923817-020	19			
IMO1 MID-EBB M	[13-NOV-2009]	HK0923817-021	17			
IMO1 MID-EBB M DUP	[13-NOV-2009]	HK0923817-022	18			
IMO1 MID-EBB B	[13-NOV-2009]	HK0923817-023	20			
IMO1 MID-EBB B DUP	[13-NOV-2009]	HK0923817-024	24			
IMO2 MID-EBB S	[13-NOV-2009]	HK0923817-025	16			
IMO2 MID-EBB S DUP	[13-NOV-2009]	HK0923817-026	18			
IMO2 MID-EBB M	[13-NOV-2009]	HK0923817-027	11			
IMO2 MID-EBB M DUP	[13-NOV-2009]	HK0923817-028	9			
IMO2 MID-EBB B	[13-NOV-2009]	HK0923817-029	13			
IMO2 MID-EBB B DUP	[13-NOV-2009]	HK0923817-030	12			
C2 (NM5) MID-EBB S	[13-NOV-2009]	HK0923817-043	12			
C2 (NM5) MID-EBB S DUP	[13-NOV-2009]	HK0923817-044	12			
C2 (NM5) MID-EBB M	[13-NOV-2009]	HK0923817-045	9			
C2 (NM5) MID-EBB M DUP	[13-NOV-2009]	HK0923817-046	11			
C2 (NM5) MID-EBB B	[13-NOV-2009]	HK0923817-047	9			
C2 (NM5) MID-EBB B DUP	[13-NOV-2009]	HK0923817-048	9			
MPB1 MID-FLOOD S	[13-NOV-2009]	HK0923817-049	13			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-050	13			
MPB1 MID-FLOOD M	[13-NOV-2009]	HK0923817-051	9			
MPB1 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-052	8			
MPB1 MID-FLOOD B	[13-NOV-2009]	HK0923817-053	9			
MPB1 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-054	9			
MPB2 MID-FLOOD S	[13-NOV-2009]	HK0923817-055	9			
MPB2 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-056	10			
MPB2 MID-FLOOD M	[13-NOV-2009]	HK0923817-057	8			
MPB2 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-058	9			
MPB2 MID-FLOOD B	[13-NOV-2009]	HK0923817-059	10			
MPB2 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-060	8			
MP MID-FLOOD S	[13-NOV-2009]	HK0923817-061	11			
MP MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-062	13			
MP MID-FLOOD B	[13-NOV-2009]	HK0923817-065	10			
MP MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-066	11			
IMO1 MID-FLOOD S	[13-NOV-2009]	HK0923817-067	22			
IMO1 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-068	24			
IMO1 MID-FLOOD M	[13-NOV-2009]	HK0923817-069	22			
IMO1 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-070	20			
IMO1 MID-FLOOD B	[13-NOV-2009]	HK0923817-071	27			
IMO1 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-072	24			
IMO2 MID-FLOOD S	[13-NOV-2009]	HK0923817-073	16			
IMO2 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-074	12			
IMO2 MID-FLOOD M	[13-NOV-2009]	HK0923817-075	17			
IMO2 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-076	21			
IMO2 MID-FLOOD B	[13-NOV-2009]	HK0923817-077	13			
IMO2 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-078	12			
IMO3 MID-FLOOD S	[13-NOV-2009]	HK0923817-079	9			
IMO3 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-080	9			
IMO3 MID-FLOOD M	[13-NOV-2009]	HK0923817-081	18			
IMO3 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-082	18			
IMO3 MID-FLOOD B	[13-NOV-2009]	HK0923817-083	20			
IMO3 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-084	17			
IMO4 MID-FLOOD S	[13-NOV-2009]	HK0923817-085	27			
IMO4 MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-086	27			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO4 MID-FLOOD M	[13-NOV-2009]	HK0923817-087	34				
IMO4 MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-088	29				
IMO4 MID-FLOOD B	[13-NOV-2009]	HK0923817-089	30				
IMO4 MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-090	33				
C1 (NM3) MID-FLOOD S	[13-NOV-2009]	HK0923817-091	5				
C1 (NM3) MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-092	5				
C1 (NM3) MID-FLOOD M	[13-NOV-2009]	HK0923817-093	5				
C1 (NM3) MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-094	5				
C1 (NM3) MID-FLOOD B	[13-NOV-2009]	HK0923817-095	26				
C1 (NM3) MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-096	24				
C3 (NM6) MID-FLOOD S	[13-NOV-2009]	HK0923817-097	14				
C3 (NM6) MID-FLOOD S DUP	[13-NOV-2009]	HK0923817-098	15				
C3 (NM6) MID-FLOOD M	[13-NOV-2009]	HK0923817-099	15				
C3 (NM6) MID-FLOOD M DUP	[13-NOV-2009]	HK0923817-100	16				
C3 (NM6) MID-FLOOD B	[13-NOV-2009]	HK0923817-101	22				
C3 (NM6) MID-FLOOD B DUP	[13-NOV-2009]	HK0923817-102	23				



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 and Aggregate Properties (QC Lot: 1165451)								
HK0923817-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
HK0923817-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	19	19	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165452)								
HK0923817-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	17	18	0.0
HK0923817-045	C2 (NM5) MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	13.1
EA/ED: Physical and Aggregate Properties (QC Lot: 1165453)								
HK0923817-055	MPB2 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
HK0923817-067	IMO1 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	22	24	7.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1165454)								
HK0923817-077	IMO2 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	13	13	0.0
HK0923817-087	IMO4 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	34	30	10.8
EA/ED: Physical and Aggregate Properties (QC Lot: 1165455)								
HK0923817-097	C3 (NM6) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	14	14	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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1165451)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	87.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165452)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165453)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165454)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165455)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	94.0	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Order number</i>	: ---			<i>Date of issue</i>	: 18-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 98
<i>Site</i>	: ---				- <i>Analysed</i> : 98

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923858 supersedes any previous reports with this reference. The completion date of analysis is 17-NOV-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 HK0923858 : **Sample(s) were collected by ALS Technichem (HK) staff on 14 November, 2009..**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[14-NOV-2009]	HK0923858-001	10			
MPB1 MID-EBB S DUP	[14-NOV-2009]	HK0923858-002	10			
MPB1 MID-EBB M	[14-NOV-2009]	HK0923858-003	9			
MPB1 MID-EBB M DUP	[14-NOV-2009]	HK0923858-004	11			
MPB1 MID-EBB B	[14-NOV-2009]	HK0923858-005	9			
MPB1 MID-EBB B DUP	[14-NOV-2009]	HK0923858-006	9			
MPB2 MID-EBB S	[14-NOV-2009]	HK0923858-007	14			
MPB2 MID-EBB S DUP	[14-NOV-2009]	HK0923858-008	14			
MPB2 MID-EBB M	[14-NOV-2009]	HK0923858-009	11			
MPB2 MID-EBB M DUP	[14-NOV-2009]	HK0923858-010	12			
MPB2 MID-EBB B	[14-NOV-2009]	HK0923858-011	12			
MPB2 MID-EBB B DUP	[14-NOV-2009]	HK0923858-012	12			
MP MID-EBB S	[14-NOV-2009]	HK0923858-013	14			
MP MID-EBB S DUP	[14-NOV-2009]	HK0923858-014	14			
MP MID-EBB B	[14-NOV-2009]	HK0923858-017	18			
MP MID-EBB B DUP	[14-NOV-2009]	HK0923858-018	20			
IMO1 MID-EBB S	[14-NOV-2009]	HK0923858-019	20			
IMO1 MID-EBB S DUP	[14-NOV-2009]	HK0923858-020	18			
IMO1 MID-EBB M	[14-NOV-2009]	HK0923858-021	20			
IMO1 MID-EBB M DUP	[14-NOV-2009]	HK0923858-022	17			
IMO1 MID-EBB B	[14-NOV-2009]	HK0923858-023	17			
IMO1 MID-EBB B DUP	[14-NOV-2009]	HK0923858-024	16			
IMO2 MID-EBB S	[14-NOV-2009]	HK0923858-025	10			
IMO2 MID-EBB S DUP	[14-NOV-2009]	HK0923858-026	8			
IMO2 MID-EBB M	[14-NOV-2009]	HK0923858-027	10			
IMO2 MID-EBB M DUP	[14-NOV-2009]	HK0923858-028	8			
IMO2 MID-EBB B	[14-NOV-2009]	HK0923858-029	9			
IMO2 MID-EBB B DUP	[14-NOV-2009]	HK0923858-030	8			
IMO3 MID-EBB S	[14-NOV-2009]	HK0923858-031	11			
IMO3 MID-EBB S DUP	[14-NOV-2009]	HK0923858-032	13			
IMO3 MID-EBB M	[14-NOV-2009]	HK0923858-033	11			
IMO3 MID-EBB M DUP	[14-NOV-2009]	HK0923858-034	13			
IMO3 MID-EBB B	[14-NOV-2009]	HK0923858-035	11			
IMO3 MID-EBB B DUP	[14-NOV-2009]	HK0923858-036	14			
IMO4 MID-EBB S	[14-NOV-2009]	HK0923858-037	7			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO4 MID-EBB S DUP	[14-NOV-2009]	HK0923858-038	5			
IMO4 MID-EBB M	[14-NOV-2009]	HK0923858-039	9			
IMO4 MID-EBB M DUP	[14-NOV-2009]	HK0923858-040	8			
IMO4 MID-EBB B	[14-NOV-2009]	HK0923858-041	8			
IMO4 MID-EBB B DUP	[14-NOV-2009]	HK0923858-042	8			
C2 (NM5) MID-EBB S	[14-NOV-2009]	HK0923858-043	7			
C2 (NM5) MID-EBB S DUP	[14-NOV-2009]	HK0923858-044	7			
C2 (NM5) MID-EBB M	[14-NOV-2009]	HK0923858-045	12			
C2 (NM5) MID-EBB M DUP	[14-NOV-2009]	HK0923858-046	12			
C2 (NM5) MID-EBB B	[14-NOV-2009]	HK0923858-047	8			
C2 (NM5) MID-EBB B DUP	[14-NOV-2009]	HK0923858-048	9			
MPB1 MID-FLOOD S	[14-NOV-2009]	HK0923858-049	10			
MPB1 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-050	9			
MPB1 MID-FLOOD M	[14-NOV-2009]	HK0923858-051	9			
MPB1 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-052	8			
MPB1 MID-FLOOD B	[14-NOV-2009]	HK0923858-053	9			
MPB1 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-054	7			
MPB2 MID-FLOOD S	[14-NOV-2009]	HK0923858-055	8			
MPB2 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-056	9			
MPB2 MID-FLOOD M	[14-NOV-2009]	HK0923858-057	8			
MPB2 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-058	8			
MPB2 MID-FLOOD B	[14-NOV-2009]	HK0923858-059	7			
MPB2 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-060	8			
MP MID-FLOOD S	[14-NOV-2009]	HK0923858-061	7			
MP MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-062	8			
MP MID-FLOOD B	[14-NOV-2009]	HK0923858-065	8			
MP MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-066	7			
IMO1 MID-FLOOD S	[14-NOV-2009]	HK0923858-067	6			
IMO1 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-068	6			
IMO1 MID-FLOOD M	[14-NOV-2009]	HK0923858-069	8			
IMO1 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-070	7			
IMO1 MID-FLOOD B	[14-NOV-2009]	HK0923858-071	7			
IMO1 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-072	9			
IMO2 MID-FLOOD S	[14-NOV-2009]	HK0923858-073	9			
IMO2 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-074	7			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO2 MID-FLOOD M	[14-NOV-2009]	HK0923858-075	9			
IMO2 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-076	8			
IMO2 MID-FLOOD B	[14-NOV-2009]	HK0923858-077	7			
IMO2 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-078	6			
IMO3 MID-FLOOD S	[14-NOV-2009]	HK0923858-079	7			
IMO3 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-080	8			
IMO3 MID-FLOOD M	[14-NOV-2009]	HK0923858-081	8			
IMO3 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-082	7			
IMO3 MID-FLOOD B	[14-NOV-2009]	HK0923858-083	7			
IMO3 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-084	9			
IMO4 MID-FLOOD S	[14-NOV-2009]	HK0923858-085	7			
IMO4 MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-086	8			
IMO4 MID-FLOOD M	[14-NOV-2009]	HK0923858-087	8			
IMO4 MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-088	6			
IMO4 MID-FLOOD B	[14-NOV-2009]	HK0923858-089	6			
IMO4 MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-090	7			
C1 (NM3) MID-FLOOD S	[14-NOV-2009]	HK0923858-091	8			
C1 (NM3) MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-092	7			
C1 (NM3) MID-FLOOD M	[14-NOV-2009]	HK0923858-093	7			
C1 (NM3) MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-094	6			
C1 (NM3) MID-FLOOD B	[14-NOV-2009]	HK0923858-095	7			
C1 (NM3) MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-096	6			
C3 (NM6) MID-FLOOD S	[14-NOV-2009]	HK0923858-097	7			
C3 (NM6) MID-FLOOD S DUP	[14-NOV-2009]	HK0923858-098	6			
C3 (NM6) MID-FLOOD M	[14-NOV-2009]	HK0923858-099	6			
C3 (NM6) MID-FLOOD M DUP	[14-NOV-2009]	HK0923858-100	7			
C3 (NM6) MID-FLOOD B	[14-NOV-2009]	HK0923858-101	7			
C3 (NM6) MID-FLOOD B DUP	[14-NOV-2009]	HK0923858-102	8			



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 and Aggregate Properties (QC Lot: 1165479)								
HK0923858-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	10	10	0.0
HK0923858-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	7.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1165482)								
HK0923858-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	17	19	9.2
HK0923858-033	IMO3 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	11	12	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165483)								
HK0923858-043	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	13.2
HK0923858-053	MPB1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	12.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1165484)								
HK0923858-065	MP MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	9	0.0
HK0923858-075	IMO2 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165485)								
HK0923858-085	IMO4 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	7	7	0.0
HK0923858-095	C1 (NM3) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	7	7	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1165479)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165482)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165483)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165484)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165485)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 16-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 19-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 98
<i>Site</i>	: ---				- <i>Analysed</i> : 98

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923860 supersedes any previous reports with this reference. The completion date of analysis is 17-NOV-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 HK0923860 : **Sample(s) were collected by ALS Technichem (HK) staff on 15 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**

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Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[15-NOV-2009]	HK0923860-001	14			
MPB1 MID-EBB S DUP	[15-NOV-2009]	HK0923860-002	14			
MPB1 MID-EBB M	[15-NOV-2009]	HK0923860-003	19			
MPB1 MID-EBB M DUP	[15-NOV-2009]	HK0923860-004	17			
MPB1 MID-EBB B	[15-NOV-2009]	HK0923860-005	32			
MPB1 MID-EBB B DUP	[15-NOV-2009]	HK0923860-006	29			
MPB2 MID-EBB S	[15-NOV-2009]	HK0923860-007	17			
MPB2 MID-EBB S DUP	[15-NOV-2009]	HK0923860-008	18			
MPB2 MID-EBB M	[15-NOV-2009]	HK0923860-009	20			
MPB2 MID-EBB M DUP	[15-NOV-2009]	HK0923860-010	18			
MPB2 MID-EBB B	[15-NOV-2009]	HK0923860-011	21			
MPB2 MID-EBB B DUP	[15-NOV-2009]	HK0923860-012	22			
MP MID-EBB S	[15-NOV-2009]	HK0923860-013	32			
MP MID-EBB S DUP	[15-NOV-2009]	HK0923860-014	31			
MP MID-EBB B	[15-NOV-2009]	HK0923860-017	46			
MP MID-EBB B DUP	[15-NOV-2009]	HK0923860-018	41			
IMO1 MID-EBB S	[15-NOV-2009]	HK0923860-019	11			
IMO1 MID-EBB S DUP	[15-NOV-2009]	HK0923860-020	11			
IMO1 MID-EBB M	[15-NOV-2009]	HK0923860-021	11			
IMO1 MID-EBB M DUP	[15-NOV-2009]	HK0923860-022	13			
IMO1 MID-EBB B	[15-NOV-2009]	HK0923860-023	10			
IMO1 MID-EBB B DUP	[15-NOV-2009]	HK0923860-024	9			
IMO2 MID-EBB S	[15-NOV-2009]	HK0923860-025	9			
IMO2 MID-EBB S DUP	[15-NOV-2009]	HK0923860-026	11			
IMO2 MID-EBB M	[15-NOV-2009]	HK0923860-027	20			
IMO2 MID-EBB M DUP	[15-NOV-2009]	HK0923860-028	17			
IMO2 MID-EBB B	[15-NOV-2009]	HK0923860-029	10			
IMO2 MID-EBB B DUP	[15-NOV-2009]	HK0923860-030	8			
IMO3 MID-EBB S	[15-NOV-2009]	HK0923860-031	9			
IMO3 MID-EBB S DUP	[15-NOV-2009]	HK0923860-032	9			
IMO3 MID-EBB M	[15-NOV-2009]	HK0923860-033	11			
IMO3 MID-EBB M DUP	[15-NOV-2009]	HK0923860-034	9			
IMO3 MID-EBB B	[15-NOV-2009]	HK0923860-035	14			
IMO3 MID-EBB B DUP	[15-NOV-2009]	HK0923860-036	17			
IMO4 MID-EBB S	[15-NOV-2009]	HK0923860-037	10			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO4 MID-EBB S DUP	[15-NOV-2009]	HK0923860-038	12			
IMO4 MID-EBB M	[15-NOV-2009]	HK0923860-039	11			
IMO4 MID-EBB M DUP	[15-NOV-2009]	HK0923860-040	11			
IMO4 MID-EBB B	[15-NOV-2009]	HK0923860-041	14			
IMO4 MID-EBB B DUP	[15-NOV-2009]	HK0923860-042	14			
C2 (NM5) MID-EBB S	[15-NOV-2009]	HK0923860-055	9			
C2 (NM5) MID-EBB S DUP	[15-NOV-2009]	HK0923860-056	10			
C2 (NM5) MID-EBB M	[15-NOV-2009]	HK0923860-057	11			
C2 (NM5) MID-EBB M DUP	[15-NOV-2009]	HK0923860-058	10			
C2 (NM5) MID-EBB B	[15-NOV-2009]	HK0923860-059	16			
C2 (NM5) MID-EBB B DUP	[15-NOV-2009]	HK0923860-060	14			
MPB1 MID-FLOOD S	[15-NOV-2009]	HK0923860-061	8			
MPB1 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-062	9			
MPB1 MID-FLOOD M	[15-NOV-2009]	HK0923860-063	8			
MPB1 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-064	10			
MPB1 MID-FLOOD B	[15-NOV-2009]	HK0923860-065	8			
MPB1 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-066	10			
MPB2 MID-FLOOD S	[15-NOV-2009]	HK0923860-067	10			
MPB2 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-068	12			
MPB2 MID-FLOOD M	[15-NOV-2009]	HK0923860-069	8			
MPB2 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-070	9			
MPB2 MID-FLOOD B	[15-NOV-2009]	HK0923860-071	11			
MPB2 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-072	11			
MP MID-FLOOD S	[15-NOV-2009]	HK0923860-073	13			
MP MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-074	12			
MP MID-FLOOD B	[15-NOV-2009]	HK0923860-077	14			
MP MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-078	14			
IMO1 MID-FLOOD S	[15-NOV-2009]	HK0923860-079	9			
IMO1 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-080	11			
IMO1 MID-FLOOD M	[15-NOV-2009]	HK0923860-081	12			
IMO1 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-082	14			
IMO1 MID-FLOOD B	[15-NOV-2009]	HK0923860-083	27			
IMO1 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-084	26			
IMO2 MID-FLOOD S	[15-NOV-2009]	HK0923860-085	12			
IMO2 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-086	12			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit				
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO2 MID-FLOOD M	[15-NOV-2009]	HK0923860-087	9				
IMO2 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-088	10				
IMO2 MID-FLOOD B	[15-NOV-2009]	HK0923860-089	70				
IMO2 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-090	68				
IMO3 MID-FLOOD S	[15-NOV-2009]	HK0923860-091	41				
IMO3 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-092	39				
IMO3 MID-FLOOD M	[15-NOV-2009]	HK0923860-093	44				
IMO3 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-094	40				
IMO3 MID-FLOOD B	[15-NOV-2009]	HK0923860-095	48				
IMO3 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-096	53				
IMO4 MID-FLOOD S	[15-NOV-2009]	HK0923860-097	22				
IMO4 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-098	21				
IMO4 MID-FLOOD M	[15-NOV-2009]	HK0923860-099	25				
IMO4 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-100	23				
IMO4 MID-FLOOD B	[15-NOV-2009]	HK0923860-101	31				
IMO4 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-102	34				
C1 (NM3) MID-FLOOD S	[15-NOV-2009]	HK0923860-115	28				
C1 (NM3) MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-116	25				
C1 (NM3) MID-FLOOD M	[15-NOV-2009]	HK0923860-117	25				
C1 (NM3) MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-118	22				
C1 (NM3) MID-FLOOD B	[15-NOV-2009]	HK0923860-119	38				
C1 (NM3) MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-120	35				
C3 (NM6) MID-FLOOD S	[15-NOV-2009]	HK0923860-121	9				
C3 (NM6) MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-122	11				
C3 (NM6) MID-FLOOD M	[15-NOV-2009]	HK0923860-123	8				
C3 (NM6) MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-124	10				
C3 (NM6) MID-FLOOD B	[15-NOV-2009]	HK0923860-125	14				
C3 (NM6) MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-126	13				



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 and Aggregate Properties (QC Lot: 1165487)								
HK0923860-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	14	15	0.0
HK0923860-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	21	19	7.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1165488)								
HK0923860-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	10	11	12.3
HK0923860-033	IMO3 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165489)								
HK0923860-055	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	13.4
HK0923860-065	MPB1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165490)								
HK0923860-077	MP MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	14	13	9.2
HK0923860-087	IMO2 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	10.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1165491)								
HK0923860-097	IMO4 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	22	23	4.9
HK0923860-119	C1 (NM3) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	38	36	5.3

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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1165487)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165488)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165489)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165490)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	87.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165491)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Facsimile</i>	: +852 2723 5660	<i>Facsimile</i>	: +852 2610 2021		
<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 16-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 19-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 98
<i>Site</i>	: ---				- <i>Analysed</i> : 98

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923860 supersedes any previous reports with this reference. The completion date of analysis is 17-NOV-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 HK0923860 : **Sample(s) were collected by ALS Technichem (HK) staff on 15 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**

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Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[15-NOV-2009]	HK0923860-001	14			
MPB1 MID-EBB S DUP	[15-NOV-2009]	HK0923860-002	14			
MPB1 MID-EBB M	[15-NOV-2009]	HK0923860-003	19			
MPB1 MID-EBB M DUP	[15-NOV-2009]	HK0923860-004	17			
MPB1 MID-EBB B	[15-NOV-2009]	HK0923860-005	32			
MPB1 MID-EBB B DUP	[15-NOV-2009]	HK0923860-006	29			
MPB2 MID-EBB S	[15-NOV-2009]	HK0923860-007	17			
MPB2 MID-EBB S DUP	[15-NOV-2009]	HK0923860-008	18			
MPB2 MID-EBB M	[15-NOV-2009]	HK0923860-009	20			
MPB2 MID-EBB M DUP	[15-NOV-2009]	HK0923860-010	18			
MPB2 MID-EBB B	[15-NOV-2009]	HK0923860-011	21			
MPB2 MID-EBB B DUP	[15-NOV-2009]	HK0923860-012	22			
MP MID-EBB S	[15-NOV-2009]	HK0923860-013	32			
MP MID-EBB S DUP	[15-NOV-2009]	HK0923860-014	31			
MP MID-EBB B	[15-NOV-2009]	HK0923860-017	46			
MP MID-EBB B DUP	[15-NOV-2009]	HK0923860-018	41			
IMO1 MID-EBB S	[15-NOV-2009]	HK0923860-019	11			
IMO1 MID-EBB S DUP	[15-NOV-2009]	HK0923860-020	11			
IMO1 MID-EBB M	[15-NOV-2009]	HK0923860-021	11			
IMO1 MID-EBB M DUP	[15-NOV-2009]	HK0923860-022	13			
IMO1 MID-EBB B	[15-NOV-2009]	HK0923860-023	10			
IMO1 MID-EBB B DUP	[15-NOV-2009]	HK0923860-024	9			
IMO2 MID-EBB S	[15-NOV-2009]	HK0923860-025	9			
IMO2 MID-EBB S DUP	[15-NOV-2009]	HK0923860-026	11			
IMO2 MID-EBB M	[15-NOV-2009]	HK0923860-027	20			
IMO2 MID-EBB M DUP	[15-NOV-2009]	HK0923860-028	17			
IMO2 MID-EBB B	[15-NOV-2009]	HK0923860-029	10			
IMO2 MID-EBB B DUP	[15-NOV-2009]	HK0923860-030	8			
IMO3 MID-EBB S	[15-NOV-2009]	HK0923860-031	9			
IMO3 MID-EBB S DUP	[15-NOV-2009]	HK0923860-032	9			
IMO3 MID-EBB M	[15-NOV-2009]	HK0923860-033	11			
IMO3 MID-EBB M DUP	[15-NOV-2009]	HK0923860-034	9			
IMO3 MID-EBB B	[15-NOV-2009]	HK0923860-035	14			
IMO3 MID-EBB B DUP	[15-NOV-2009]	HK0923860-036	17			
IMO4 MID-EBB S	[15-NOV-2009]	HK0923860-037	10			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO4 MID-EBB S DUP	[15-NOV-2009]	HK0923860-038	12			
IMO4 MID-EBB M	[15-NOV-2009]	HK0923860-039	11			
IMO4 MID-EBB M DUP	[15-NOV-2009]	HK0923860-040	11			
IMO4 MID-EBB B	[15-NOV-2009]	HK0923860-041	14			
IMO4 MID-EBB B DUP	[15-NOV-2009]	HK0923860-042	14			
C2 (NM5) MID-EBB S	[15-NOV-2009]	HK0923860-055	9			
C2 (NM5) MID-EBB S DUP	[15-NOV-2009]	HK0923860-056	10			
C2 (NM5) MID-EBB M	[15-NOV-2009]	HK0923860-057	11			
C2 (NM5) MID-EBB M DUP	[15-NOV-2009]	HK0923860-058	10			
C2 (NM5) MID-EBB B	[15-NOV-2009]	HK0923860-059	16			
C2 (NM5) MID-EBB B DUP	[15-NOV-2009]	HK0923860-060	14			
MPB1 MID-FLOOD S	[15-NOV-2009]	HK0923860-061	8			
MPB1 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-062	9			
MPB1 MID-FLOOD M	[15-NOV-2009]	HK0923860-063	8			
MPB1 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-064	10			
MPB1 MID-FLOOD B	[15-NOV-2009]	HK0923860-065	8			
MPB1 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-066	10			
MPB2 MID-FLOOD S	[15-NOV-2009]	HK0923860-067	10			
MPB2 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-068	12			
MPB2 MID-FLOOD M	[15-NOV-2009]	HK0923860-069	8			
MPB2 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-070	9			
MPB2 MID-FLOOD B	[15-NOV-2009]	HK0923860-071	11			
MPB2 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-072	11			
MP MID-FLOOD S	[15-NOV-2009]	HK0923860-073	13			
MP MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-074	12			
MP MID-FLOOD B	[15-NOV-2009]	HK0923860-077	14			
MP MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-078	14			
IMO1 MID-FLOOD S	[15-NOV-2009]	HK0923860-079	9			
IMO1 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-080	11			
IMO1 MID-FLOOD M	[15-NOV-2009]	HK0923860-081	12			
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IMO1 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-084	26			
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IMO2 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-086	12			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit				
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO2 MID-FLOOD M	[15-NOV-2009]	HK0923860-087	9				
IMO2 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-088	10				
IMO2 MID-FLOOD B	[15-NOV-2009]	HK0923860-089	70				
IMO2 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-090	68				
IMO3 MID-FLOOD S	[15-NOV-2009]	HK0923860-091	41				
IMO3 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-092	39				
IMO3 MID-FLOOD M	[15-NOV-2009]	HK0923860-093	44				
IMO3 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-094	40				
IMO3 MID-FLOOD B	[15-NOV-2009]	HK0923860-095	48				
IMO3 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-096	53				
IMO4 MID-FLOOD S	[15-NOV-2009]	HK0923860-097	22				
IMO4 MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-098	21				
IMO4 MID-FLOOD M	[15-NOV-2009]	HK0923860-099	25				
IMO4 MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-100	23				
IMO4 MID-FLOOD B	[15-NOV-2009]	HK0923860-101	31				
IMO4 MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-102	34				
C1 (NM3) MID-FLOOD S	[15-NOV-2009]	HK0923860-115	28				
C1 (NM3) MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-116	25				
C1 (NM3) MID-FLOOD M	[15-NOV-2009]	HK0923860-117	25				
C1 (NM3) MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-118	22				
C1 (NM3) MID-FLOOD B	[15-NOV-2009]	HK0923860-119	38				
C1 (NM3) MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-120	35				
C3 (NM6) MID-FLOOD S	[15-NOV-2009]	HK0923860-121	9				
C3 (NM6) MID-FLOOD S DUP	[15-NOV-2009]	HK0923860-122	11				
C3 (NM6) MID-FLOOD M	[15-NOV-2009]	HK0923860-123	8				
C3 (NM6) MID-FLOOD M DUP	[15-NOV-2009]	HK0923860-124	10				
C3 (NM6) MID-FLOOD B	[15-NOV-2009]	HK0923860-125	14				
C3 (NM6) MID-FLOOD B DUP	[15-NOV-2009]	HK0923860-126	13				



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 and Aggregate Properties (QC Lot: 1165487)								
HK0923860-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	14	15	0.0
HK0923860-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	21	19	7.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1165488)								
HK0923860-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	10	11	12.3
HK0923860-033	IMO3 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165489)								
HK0923860-055	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	13.4
HK0923860-065	MPB1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1165490)								
HK0923860-077	MP MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	14	13	9.2
HK0923860-087	IMO2 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	10.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1165491)								
HK0923860-097	IMO4 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	22	23	4.9
HK0923860-119	C1 (NM3) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	38	36	5.3

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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1165487)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165488)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165489)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165490)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	87.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1165491)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS FRANCESCA ZINO	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0923915
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 17-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 21-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- Received : 74
<i>Site</i>	: ---				- Analysed : 74

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923915 supersedes any previous reports with this reference. The completion date of analysis is 19-NOV-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 HK0923915 : **Sample(s) were collected by ALS Technichem (HK) staff on 17 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

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Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[17-NOV-2009]	HK0923915-001	26			
MPB1 MID-EBB S DUP	[17-NOV-2009]	HK0923915-002	31			
MPB1 MID-EBB M	[17-NOV-2009]	HK0923915-003	27			
MPB1 MID-EBB M DUP	[17-NOV-2009]	HK0923915-004	28			
MPB1 MID-EBB B	[17-NOV-2009]	HK0923915-005	38			
MPB1 MID-EBB B DUP	[17-NOV-2009]	HK0923915-006	34			
MPB2 MID-EBB S	[17-NOV-2009]	HK0923915-007	33			
MPB2 MID-EBB S DUP	[17-NOV-2009]	HK0923915-008	38			
MPB2 MID-EBB M	[17-NOV-2009]	HK0923915-009	40			
MPB2 MID-EBB M DUP	[17-NOV-2009]	HK0923915-010	39			
MPB2 MID-EBB B	[17-NOV-2009]	HK0923915-011	40			
MPB2 MID-EBB B DUP	[17-NOV-2009]	HK0923915-012	42			
MP MID-EBB S	[17-NOV-2009]	HK0923915-013	34			
MP MID-EBB S DUP	[17-NOV-2009]	HK0923915-014	34			
MP MID-EBB B	[17-NOV-2009]	HK0923915-017	32			
MP MID-EBB B DUP	[17-NOV-2009]	HK0923915-018	35			
IMO1 MID-EBB S	[17-NOV-2009]	HK0923915-019	26			
IMO1 MID-EBB S DUP	[17-NOV-2009]	HK0923915-020	22			
IMO1 MID-EBB M	[17-NOV-2009]	HK0923915-021	23			
IMO1 MID-EBB M DUP	[17-NOV-2009]	HK0923915-022	23			
IMO1 MID-EBB B	[17-NOV-2009]	HK0923915-023	24			
IMO1 MID-EBB B DUP	[17-NOV-2009]	HK0923915-024	23			
IMO2 MID-EBB S	[17-NOV-2009]	HK0923915-025	24			
IMO2 MID-EBB S DUP	[17-NOV-2009]	HK0923915-026	25			
IMO2 MID-EBB M	[17-NOV-2009]	HK0923915-027	22			
IMO2 MID-EBB M DUP	[17-NOV-2009]	HK0923915-028	22			
IMO2 MID-EBB B	[17-NOV-2009]	HK0923915-029	23			
IMO2 MID-EBB B DUP	[17-NOV-2009]	HK0923915-030	22			
C2 (NM5) MID-EBB S	[17-NOV-2009]	HK0923915-055	30			
C2 (NM5) MID-EBB S DUP	[17-NOV-2009]	HK0923915-056	20			
C2 (NM5) MID-EBB M	[17-NOV-2009]	HK0923915-057	17			
C2 (NM5) MID-EBB M DUP	[17-NOV-2009]	HK0923915-058	16			
C2 (NM5) MID-EBB B	[17-NOV-2009]	HK0923915-059	16			
C2 (NM5) MID-EBB B DUP	[17-NOV-2009]	HK0923915-060	18			
MPB1 MID-FLOOD S	[17-NOV-2009]	HK0923915-061	28			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-062	28			
MPB1 MID-FLOOD M	[17-NOV-2009]	HK0923915-063	28			
MPB1 MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-064	33			
MPB1 MID-FLOOD B	[17-NOV-2009]	HK0923915-065	30			
MPB1 MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-066	31			
MPB2 MID-FLOOD S	[17-NOV-2009]	HK0923915-067	30			
MPB2 MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-068	30			
MPB2 MID-FLOOD M	[17-NOV-2009]	HK0923915-069	28			
MPB2 MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-070	35			
MPB2 MID-FLOOD B	[17-NOV-2009]	HK0923915-071	41			
MPB2 MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-072	39			
MP MID-FLOOD S	[17-NOV-2009]	HK0923915-073	34			
MP MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-074	31			
MP MID-FLOOD B	[17-NOV-2009]	HK0923915-077	30			
MP MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-078	46			
IMO1 MID-FLOOD S	[17-NOV-2009]	HK0923915-079	25			
IMO1 MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-080	29			
IMO1 MID-FLOOD M	[17-NOV-2009]	HK0923915-081	27			
IMO1 MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-082	32			
IMO1 MID-FLOOD B	[17-NOV-2009]	HK0923915-083	33			
IMO1 MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-084	27			
IMO2 MID-FLOOD S	[17-NOV-2009]	HK0923915-085	23			
IMO2 MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-086	27			
IMO2 MID-FLOOD M	[17-NOV-2009]	HK0923915-087	24			
IMO2 MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-088	25			
IMO2 MID-FLOOD B	[17-NOV-2009]	HK0923915-089	19			
IMO2 MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-090	20			
C1 (NM3) MID-FLOOD S	[17-NOV-2009]	HK0923915-115	14			
C1 (NM3) MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-116	16			
C1 (NM3) MID-FLOOD M	[17-NOV-2009]	HK0923915-117	17			
C1 (NM3) MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-118	18			
C1 (NM3) MID-FLOOD B	[17-NOV-2009]	HK0923915-119	13			
C1 (NM3) MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-120	16			
C3 (NM6) MID-FLOOD S	[17-NOV-2009]	HK0923915-121	32			
C3 (NM6) MID-FLOOD S DUP	[17-NOV-2009]	HK0923915-122	28			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
C3 (NM6) MID-FLOOD M	[17-NOV-2009]	HK0923915-123	27				
C3 (NM6) MID-FLOOD M DUP	[17-NOV-2009]	HK0923915-124	26				
C3 (NM6) MID-FLOOD B	[17-NOV-2009]	HK0923915-125	26				
C3 (NM6) MID-FLOOD B DUP	[17-NOV-2009]	HK0923915-126	23				



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 and Aggregate Properties (QC Lot: 1168155)								
HK0923915-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	26	30	13.2
HK0923915-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	40	40	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1168156)								
HK0923915-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	24	24	0.0
HK0923915-057	C2 (NM5) MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	17	18	8.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1168157)								
HK0923915-067	MPB2 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	30	32	4.8
HK0923915-079	IMO1 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	25	29	13.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1168158)								
HK0923915-089	IMO2 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	19	19	0.0
HK0923915-123	C3 (NM6) MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	27	26	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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1168155)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1168156)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1168157)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1168158)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 18-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 23-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 98
<i>Site</i>	: ---				- <i>Analysed</i> : 98

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923916 supersedes any previous reports with this reference. The completion date of analysis is 20-NOV-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 HK0923916 : **Sample(s) were collected by ALS Technichem (HK) staff on 18 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[18-NOV-2009]	HK0923916-001	21			
MPB1 MID-EBB S DUP	[18-NOV-2009]	HK0923916-002	24			
MPB1 MID-EBB M	[18-NOV-2009]	HK0923916-003	28			
MPB1 MID-EBB M DUP	[18-NOV-2009]	HK0923916-004	23			
MPB1 MID-EBB B	[18-NOV-2009]	HK0923916-005	27			
MPB1 MID-EBB B DUP	[18-NOV-2009]	HK0923916-006	29			
MPB2 MID-EBB S	[18-NOV-2009]	HK0923916-007	55			
MPB2 MID-EBB S DUP	[18-NOV-2009]	HK0923916-008	50			
MPB2 MID-EBB M	[18-NOV-2009]	HK0923916-009	41			
MPB2 MID-EBB M DUP	[18-NOV-2009]	HK0923916-010	46			
MPB2 MID-EBB B	[18-NOV-2009]	HK0923916-011	55			
MPB2 MID-EBB B DUP	[18-NOV-2009]	HK0923916-012	48			
MP MID-EBB S	[18-NOV-2009]	HK0923916-013	21			
MP MID-EBB S DUP	[18-NOV-2009]	HK0923916-014	18			
MP MID-EBB B	[18-NOV-2009]	HK0923916-017	14			
MP MID-EBB B DUP	[18-NOV-2009]	HK0923916-018	16			
IMO1 MID-EBB S	[18-NOV-2009]	HK0923916-019	14			
IMO1 MID-EBB S DUP	[18-NOV-2009]	HK0923916-020	11			
IMO1 MID-EBB M	[18-NOV-2009]	HK0923916-021	15			
IMO1 MID-EBB M DUP	[18-NOV-2009]	HK0923916-022	16			
IMO1 MID-EBB B	[18-NOV-2009]	HK0923916-023	17			
IMO1 MID-EBB B DUP	[18-NOV-2009]	HK0923916-024	17			
IMO2 MID-EBB S	[18-NOV-2009]	HK0923916-025	14			
IMO2 MID-EBB S DUP	[18-NOV-2009]	HK0923916-026	12			
IMO2 MID-EBB M	[18-NOV-2009]	HK0923916-027	13			
IMO2 MID-EBB M DUP	[18-NOV-2009]	HK0923916-028	14			
IMO2 MID-EBB B	[18-NOV-2009]	HK0923916-029	16			
IMO2 MID-EBB B DUP	[18-NOV-2009]	HK0923916-030	19			
IMO5 MID-EBB S	[18-NOV-2009]	HK0923916-043	21			
IMO5 MID-EBB S DUP	[18-NOV-2009]	HK0923916-044	22			
IMO5 MID-EBB M	[18-NOV-2009]	HK0923916-045	17			
IMO5 MID-EBB M DUP	[18-NOV-2009]	HK0923916-046	14			
IMO5 MID-EBB B	[18-NOV-2009]	HK0923916-047	15			
IMO5 MID-EBB B DUP	[18-NOV-2009]	HK0923916-048	16			
IMO6 MID-EBB S	[18-NOV-2009]	HK0923916-049	17			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO6 MID-EBB S DUP	[18-NOV-2009]	HK0923916-050	16			
IMO6 MID-EBB M	[18-NOV-2009]	HK0923916-051	14			
IMO6 MID-EBB M DUP	[18-NOV-2009]	HK0923916-052	15			
IMO6 MID-EBB B	[18-NOV-2009]	HK0923916-053	12			
IMO6 MID-EBB B DUP	[18-NOV-2009]	HK0923916-054	14			
C2 (NM5) MID-EBB S	[18-NOV-2009]	HK0923916-055	10			
C2 (NM5) MID-EBB S DUP	[18-NOV-2009]	HK0923916-056	9			
C2 (NM5) MID-EBB M	[18-NOV-2009]	HK0923916-057	11			
C2 (NM5) MID-EBB M DUP	[18-NOV-2009]	HK0923916-058	10			
C2 (NM5) MID-EBB B	[18-NOV-2009]	HK0923916-059	11			
C2 (NM5) MID-EBB B DUP	[18-NOV-2009]	HK0923916-060	10			
MPB1 MID-FLOOD S	[18-NOV-2009]	HK0923916-061	32			
MPB1 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-062	37			
MPB1 MID-FLOOD M	[18-NOV-2009]	HK0923916-063	20			
MPB1 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-064	23			
MPB1 MID-FLOOD B	[18-NOV-2009]	HK0923916-065	24			
MPB1 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-066	24			
MPB2 MID-FLOOD S	[18-NOV-2009]	HK0923916-067	24			
MPB2 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-068	27			
MPB2 MID-FLOOD M	[18-NOV-2009]	HK0923916-069	18			
MPB2 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-070	21			
MPB2 MID-FLOOD B	[18-NOV-2009]	HK0923916-071	18			
MPB2 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-072	20			
MP MID-FLOOD S	[18-NOV-2009]	HK0923916-073	18			
MP MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-074	20			
MP MID-FLOOD B	[18-NOV-2009]	HK0923916-077	12			
MP MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-078	13			
IMO1 MID-FLOOD S	[18-NOV-2009]	HK0923916-079	18			
IMO1 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-080	20			
IMO1 MID-FLOOD M	[18-NOV-2009]	HK0923916-081	18			
IMO1 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-082	15			
IMO1 MID-FLOOD B	[18-NOV-2009]	HK0923916-083	15			
IMO1 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-084	17			
IMO2 MID-FLOOD S	[18-NOV-2009]	HK0923916-085	12			
IMO2 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-086	16			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit				
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO2 MID-FLOOD M	[18-NOV-2009]	HK0923916-087	24				
IMO2 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-088	22				
IMO2 MID-FLOOD B	[18-NOV-2009]	HK0923916-089	17				
IMO2 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-090	14				
IMO5 MID-FLOOD S	[18-NOV-2009]	HK0923916-103	17				
IMO5 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-104	18				
IMO5 MID-FLOOD M	[18-NOV-2009]	HK0923916-105	26				
IMO5 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-106	23				
IMO5 MID-FLOOD B	[18-NOV-2009]	HK0923916-107	22				
IMO5 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-108	20				
IMO6 MID-FLOOD S	[18-NOV-2009]	HK0923916-109	17				
IMO6 MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-110	20				
IMO6 MID-FLOOD M	[18-NOV-2009]	HK0923916-111	17				
IMO6 MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-112	18				
IMO6 MID-FLOOD B	[18-NOV-2009]	HK0923916-113	21				
IMO6 MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-114	25				
C1 (NM3) MID-FLOOD S	[18-NOV-2009]	HK0923916-115	18				
C1 (NM3) MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-116	15				
C1 (NM3) MID-FLOOD M	[18-NOV-2009]	HK0923916-117	17				
C1 (NM3) MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-118	16				
C1 (NM3) MID-FLOOD B	[18-NOV-2009]	HK0923916-119	24				
C1 (NM3) MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-120	25				
C3 (NM6) MID-FLOOD S	[18-NOV-2009]	HK0923916-121	16				
C3 (NM6) MID-FLOOD S DUP	[18-NOV-2009]	HK0923916-122	14				
C3 (NM6) MID-FLOOD M	[18-NOV-2009]	HK0923916-123	18				
C3 (NM6) MID-FLOOD M DUP	[18-NOV-2009]	HK0923916-124	20				
C3 (NM6) MID-FLOOD B	[18-NOV-2009]	HK0923916-125	16				
C3 (NM6) MID-FLOOD B DUP	[18-NOV-2009]	HK0923916-126	14				



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 and Aggregate Properties (QC Lot: 1169471)								
HK0923916-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	21	23	7.7
HK0923916-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	55	56	2.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1169472)								
HK0923916-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	17	17	0.0
HK0923916-045	IMO5 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	17	16	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1169473)								
HK0923916-055	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	10	12	13.7
HK0923916-065	MPB1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	24	25	4.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1169474)								
HK0923916-077	MP MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	12	14	13.6
HK0923916-086	IMO2 MID-FLOOD S DUP	EA025: Suspended Solids (SS)	----	2	mg/L	16	17	9.8
EA/ED: Physical and Aggregate Properties (QC Lot: 1169475)								
HK0923916-109	IMO6 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	17	16	10.3
HK0923916-119	C1 (NM3) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	24	23	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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1169471)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	85.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1169472)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1169473)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1169474)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1169475)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.0	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 19-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 24-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- Received : 98
<i>Site</i>	: ---				- Analysed : 98

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923917 supersedes any previous reports with this reference. The completion date of analysis is 23-NOV-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 HK0923917 : **Sample(s) were collected by ALS Technichem (HK) staff on 19 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[19-NOV-2009]	HK0923917-001	17			
MPB1 MID-EBB S DUP	[19-NOV-2009]	HK0923917-002	19			
MPB1 MID-EBB M	[19-NOV-2009]	HK0923917-003	23			
MPB1 MID-EBB M DUP	[19-NOV-2009]	HK0923917-004	25			
MPB1 MID-EBB B	[19-NOV-2009]	HK0923917-005	25			
MPB1 MID-EBB B DUP	[19-NOV-2009]	HK0923917-006	21			
MPB2 MID-EBB S	[19-NOV-2009]	HK0923917-007	25			
MPB2 MID-EBB S DUP	[19-NOV-2009]	HK0923917-008	26			
MPB2 MID-EBB M	[19-NOV-2009]	HK0923917-009	24			
MPB2 MID-EBB M DUP	[19-NOV-2009]	HK0923917-010	23			
MPB2 MID-EBB B	[19-NOV-2009]	HK0923917-011	22			
MPB2 MID-EBB B DUP	[19-NOV-2009]	HK0923917-012	26			
MP MID-EBB S	[19-NOV-2009]	HK0923917-013	24			
MP MID-EBB S DUP	[19-NOV-2009]	HK0923917-014	28			
MP MID-EBB B	[19-NOV-2009]	HK0923917-017	21			
MP MID-EBB B DUP	[19-NOV-2009]	HK0923917-018	20			
IMO1 MID-EBB S	[19-NOV-2009]	HK0923917-019	26			
IMO1 MID-EBB S DUP	[19-NOV-2009]	HK0923917-020	23			
IMO1 MID-EBB M	[19-NOV-2009]	HK0923917-021	20			
IMO1 MID-EBB M DUP	[19-NOV-2009]	HK0923917-022	22			
IMO1 MID-EBB B	[19-NOV-2009]	HK0923917-023	19			
IMO1 MID-EBB B DUP	[19-NOV-2009]	HK0923917-024	22			
IMO2 MID-EBB S	[19-NOV-2009]	HK0923917-025	19			
IMO2 MID-EBB S DUP	[19-NOV-2009]	HK0923917-026	22			
IMO2 MID-EBB M	[19-NOV-2009]	HK0923917-027	18			
IMO2 MID-EBB M DUP	[19-NOV-2009]	HK0923917-028	17			
IMO2 MID-EBB B	[19-NOV-2009]	HK0923917-029	18			
IMO2 MID-EBB B DUP	[19-NOV-2009]	HK0923917-030	18			
IMO5 MID-EBB S	[19-NOV-2009]	HK0923917-043	23			
IMO5 MID-EBB S DUP	[19-NOV-2009]	HK0923917-044	23			
IMO5 MID-EBB M	[19-NOV-2009]	HK0923917-045	24			
IMO5 MID-EBB M DUP	[19-NOV-2009]	HK0923917-046	26			
IMO5 MID-EBB B	[19-NOV-2009]	HK0923917-047	23			
IMO5 MID-EBB B DUP	[19-NOV-2009]	HK0923917-048	23			
IMO6 MID-EBB S	[19-NOV-2009]	HK0923917-049	19			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO6 MID-EBB S DUP	[19-NOV-2009]	HK0923917-050	15			
IMO6 MID-EBB M	[19-NOV-2009]	HK0923917-051	15			
IMO6 MID-EBB M DUP	[19-NOV-2009]	HK0923917-052	18			
IMO6 MID-EBB B	[19-NOV-2009]	HK0923917-053	21			
IMO6 MID-EBB B DUP	[19-NOV-2009]	HK0923917-054	20			
C2 (NM5) MID-EBB S	[19-NOV-2009]	HK0923917-055	12			
C2 (NM5) MID-EBB S DUP	[19-NOV-2009]	HK0923917-056	14			
C2 (NM5) MID-EBB M	[19-NOV-2009]	HK0923917-057	11			
C2 (NM5) MID-EBB M DUP	[19-NOV-2009]	HK0923917-058	13			
C2 (NM5) MID-EBB B	[19-NOV-2009]	HK0923917-059	12			
C2 (NM5) MID-EBB B DUP	[19-NOV-2009]	HK0923917-060	12			
MPB1 MID-FLOOD S	[19-NOV-2009]	HK0923917-061	22			
MPB1 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-062	27			
MPB1 MID-FLOOD M	[19-NOV-2009]	HK0923917-063	19			
MPB1 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-064	23			
MPB1 MID-FLOOD B	[19-NOV-2009]	HK0923917-065	17			
MPB1 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-066	17			
MPB2 MID-FLOOD S	[19-NOV-2009]	HK0923917-067	31			
MPB2 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-068	27			
MPB2 MID-FLOOD M	[19-NOV-2009]	HK0923917-069	24			
MPB2 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-070	19			
MPB2 MID-FLOOD B	[19-NOV-2009]	HK0923917-071	24			
MPB2 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-072	24			
MP MID-FLOOD S	[19-NOV-2009]	HK0923917-073	16			
MP MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-074	15			
MP MID-FLOOD B	[19-NOV-2009]	HK0923917-077	16			
MP MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-078	14			
IMO1 MID-FLOOD S	[19-NOV-2009]	HK0923917-079	26			
IMO1 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-080	31			
IMO1 MID-FLOOD M	[19-NOV-2009]	HK0923917-081	18			
IMO1 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-082	21			
IMO1 MID-FLOOD B	[19-NOV-2009]	HK0923917-083	33			
IMO1 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-084	29			
IMO2 MID-FLOOD S	[19-NOV-2009]	HK0923917-085	19			
IMO2 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-086	19			



Sub-Matrix: WATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit				
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO2 MID-FLOOD M	[19-NOV-2009]	HK0923917-087	24				
IMO2 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-088	25				
IMO2 MID-FLOOD B	[19-NOV-2009]	HK0923917-089	24				
IMO2 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-090	20				
IMO5 MID-FLOOD S	[19-NOV-2009]	HK0923917-103	17				
IMO5 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-104	20				
IMO5 MID-FLOOD M	[19-NOV-2009]	HK0923917-105	19				
IMO5 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-106	20				
IMO5 MID-FLOOD B	[19-NOV-2009]	HK0923917-107	21				
IMO5 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-108	24				
IMO6 MID-FLOOD S	[19-NOV-2009]	HK0923917-109	21				
IMO6 MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-110	26				
IMO6 MID-FLOOD M	[19-NOV-2009]	HK0923917-111	24				
IMO6 MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-112	28				
IMO6 MID-FLOOD B	[19-NOV-2009]	HK0923917-113	26				
IMO6 MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-114	23				
C1 (NM3) MID-FLOOD S	[19-NOV-2009]	HK0923917-115	22				
C1 (NM3) MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-116	21				
C1 (NM3) MID-FLOOD M	[19-NOV-2009]	HK0923917-117	17				
C1 (NM3) MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-118	16				
C1 (NM3) MID-FLOOD B	[19-NOV-2009]	HK0923917-119	19				
C1 (NM3) MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-120	18				
C3 (NM6) MID-FLOOD S	[19-NOV-2009]	HK0923917-121	20				
C3 (NM6) MID-FLOOD S DUP	[19-NOV-2009]	HK0923917-122	17				
C3 (NM6) MID-FLOOD M	[19-NOV-2009]	HK0923917-123	17				
C3 (NM6) MID-FLOOD M DUP	[19-NOV-2009]	HK0923917-124	14				
C3 (NM6) MID-FLOOD B	[19-NOV-2009]	HK0923917-125	18				
C3 (NM6) MID-FLOOD B DUP	[19-NOV-2009]	HK0923917-126	15				



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 and Aggregate Properties (QC Lot: 1169627)								
HK0923917-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	17	18	0.0
HK0923917-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	22	23	5.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1169628)								
HK0923917-023	IMO1 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	19	21	10.6
HK0923917-045	IMO5 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	24	25	5.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1169629)								
HK0923917-055	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	11	13.1
HK0923917-066	MPB1 MID-FLOOD B DUP	EA025: Suspended Solids (SS)	----	2	mg/L	17	19	12.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1169630)								
HK0923917-077	MP MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	16	17	0.0
HK0923917-087	IMO2 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	24	26	8.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1169631)								
HK0923917-109	IMO6 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	21	22	8.0
HK0923917-119	C1 (NM3) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	19	20	8.5

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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1169627)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.0	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1169628)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1169629)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	89.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1169630)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	89.0	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1169631)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS FRANCESCA ZINO	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0923918
<i>Address</i>	: 21/F, LINCOLN HOUSE, 979 KING'S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG	<i>Address</i>	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 20-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 25-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923918 supersedes any previous reports with this reference. The completion date of analysis is 23-NOV-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 HK0923918 : **Sample(s) were collected by ALS Technichem (HK) staff on 20 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

Trading Name: **ALS Technichem (HK) Pty Ltd**

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A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[20-NOV-2009]	HK0923918-001	17			
MPB1 MID-EBB S DUP	[20-NOV-2009]	HK0923918-002	15			
MPB1 MID-EBB M	[20-NOV-2009]	HK0923918-003	19			
MPB1 MID-EBB M DUP	[20-NOV-2009]	HK0923918-004	22			
MPB1 MID-EBB B	[20-NOV-2009]	HK0923918-005	17			
MPB1 MID-EBB B DUP	[20-NOV-2009]	HK0923918-006	20			
MPB2 MID-EBB S	[20-NOV-2009]	HK0923918-007	17			
MPB2 MID-EBB S DUP	[20-NOV-2009]	HK0923918-008	19			
MPB2 MID-EBB M	[20-NOV-2009]	HK0923918-009	14			
MPB2 MID-EBB M DUP	[20-NOV-2009]	HK0923918-010	15			
MPB2 MID-EBB B	[20-NOV-2009]	HK0923918-011	14			
MPB2 MID-EBB B DUP	[20-NOV-2009]	HK0923918-012	12			
MP MID-EBB S	[20-NOV-2009]	HK0923918-013	20			
MP MID-EBB S DUP	[20-NOV-2009]	HK0923918-014	21			
MP MID-EBB M	[20-NOV-2009]	HK0923918-015	20			
MP MID-EBB M DUP	[20-NOV-2009]	HK0923918-016	20			
MP MID-EBB B	[20-NOV-2009]	HK0923918-017	25			
MP MID-EBB B DUP	[20-NOV-2009]	HK0923918-018	21			
IMO1 MID-EBB S	[20-NOV-2009]	HK0923918-019	14			
IMO1 MID-EBB S DUP	[20-NOV-2009]	HK0923918-020	15			
IMO1 MID-EBB M	[20-NOV-2009]	HK0923918-021	16			
IMO1 MID-EBB M DUP	[20-NOV-2009]	HK0923918-022	15			
IMO1 MID-EBB B	[20-NOV-2009]	HK0923918-023	16			
IMO1 MID-EBB B DUP	[20-NOV-2009]	HK0923918-024	17			
IMO2 MID-EBB S	[20-NOV-2009]	HK0923918-025	21			
IMO2 MID-EBB S DUP	[20-NOV-2009]	HK0923918-026	18			
IMO2 MID-EBB M	[20-NOV-2009]	HK0923918-027	19			
IMO2 MID-EBB M DUP	[20-NOV-2009]	HK0923918-028	19			
IMO2 MID-EBB B	[20-NOV-2009]	HK0923918-029	22			
IMO2 MID-EBB B DUP	[20-NOV-2009]	HK0923918-030	19			
IMO5 MID-EBB S	[20-NOV-2009]	HK0923918-043	15			
IMO5 MID-EBB S DUP	[20-NOV-2009]	HK0923918-044	16			
IMO5 MID-EBB M	[20-NOV-2009]	HK0923918-045	20			
IMO5 MID-EBB M DUP	[20-NOV-2009]	HK0923918-046	23			
IMO5 MID-EBB B	[20-NOV-2009]	HK0923918-047	18			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[20-NOV-2009]	HK0923918-048	14			
IMO6 MID-EBB S	[20-NOV-2009]	HK0923918-049	21			
IMO6 MID-EBB S DUP	[20-NOV-2009]	HK0923918-050	20			
IMO6 MID-EBB M	[20-NOV-2009]	HK0923918-051	20			
IMO6 MID-EBB M DUP	[20-NOV-2009]	HK0923918-052	20			
IMO6 MID-EBB B	[20-NOV-2009]	HK0923918-053	17			
IMO6 MID-EBB B DUP	[20-NOV-2009]	HK0923918-054	20			
C2 (NM5) MID-EBB S	[20-NOV-2009]	HK0923918-055	13			
C2 (NM5) MID-EBB S DUP	[20-NOV-2009]	HK0923918-056	15			
C2 (NM5) MID-EBB M	[20-NOV-2009]	HK0923918-057	15			
C2 (NM5) MID-EBB M DUP	[20-NOV-2009]	HK0923918-058	18			
C2 (NM5) MID-EBB B	[20-NOV-2009]	HK0923918-059	17			
C2 (NM5) MID-EBB B DUP	[20-NOV-2009]	HK0923918-060	17			
MPB1 MID-FLOOD S	[20-NOV-2009]	HK0923918-061	16			
MPB1 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-062	16			
MPB1 MID-FLOOD M	[20-NOV-2009]	HK0923918-063	16			
MPB1 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-064	17			
MPB1 MID-FLOOD B	[20-NOV-2009]	HK0923918-065	17			
MPB1 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-066	18			
MPB2 MID-FLOOD S	[20-NOV-2009]	HK0923918-067	16			
MPB2 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-068	16			
MPB2 MID-FLOOD M	[20-NOV-2009]	HK0923918-069	17			
MPB2 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-070	15			
MPB2 MID-FLOOD B	[20-NOV-2009]	HK0923918-071	14			
MPB2 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-072	13			
MP MID-FLOOD S	[20-NOV-2009]	HK0923918-073	20			
MP MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-074	18			
MP MID-FLOOD M	[20-NOV-2009]	HK0923918-075	22			
MP MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-076	19			
MP MID-FLOOD B	[20-NOV-2009]	HK0923918-077	22			
MP MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-078	19			
IMO1 MID-FLOOD S	[20-NOV-2009]	HK0923918-079	22			
IMO1 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-080	19			
IMO1 MID-FLOOD M	[20-NOV-2009]	HK0923918-081	18			
IMO1 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-082	16			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO1 MID-FLOOD B	[20-NOV-2009]	HK0923918-083	14			
IMO1 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-084	14			
IMO2 MID-FLOOD S	[20-NOV-2009]	HK0923918-085	24			
IMO2 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-086	20			
IMO2 MID-FLOOD M	[20-NOV-2009]	HK0923918-087	19			
IMO2 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-088	17			
IMO2 MID-FLOOD B	[20-NOV-2009]	HK0923918-089	14			
IMO2 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-090	17			
IMO5 MID-FLOOD S	[20-NOV-2009]	HK0923918-103	19			
IMO5 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-104	19			
IMO5 MID-FLOOD M	[20-NOV-2009]	HK0923918-105	17			
IMO5 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-106	20			
IMO5 MID-FLOOD B	[20-NOV-2009]	HK0923918-107	18			
IMO5 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-108	18			
IMO6 MID-FLOOD S	[20-NOV-2009]	HK0923918-109	23			
IMO6 MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-110	25			
IMO6 MID-FLOOD M	[20-NOV-2009]	HK0923918-111	22			
IMO6 MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-112	22			
IMO6 MID-FLOOD B	[20-NOV-2009]	HK0923918-113	23			
IMO6 MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-114	27			
C1 (NM3) MID-FLOOD S	[20-NOV-2009]	HK0923918-115	14			
C1 (NM3) MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-116	11			
C1 (NM3) MID-FLOOD M	[20-NOV-2009]	HK0923918-117	12			
C1 (NM3) MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-118	12			
C1 (NM3) MID-FLOOD B	[20-NOV-2009]	HK0923918-119	13			
C1 (NM3) MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-120	15			
C3 (NM6) MID-FLOOD S	[20-NOV-2009]	HK0923918-121	16			
C3 (NM6) MID-FLOOD S DUP	[20-NOV-2009]	HK0923918-122	14			
C3 (NM6) MID-FLOOD M	[20-NOV-2009]	HK0923918-123	18			
C3 (NM6) MID-FLOOD M DUP	[20-NOV-2009]	HK0923918-124	16			
C3 (NM6) MID-FLOOD B	[20-NOV-2009]	HK0923918-125	15			
C3 (NM6) MID-FLOOD B DUP	[20-NOV-2009]	HK0923918-126	18			



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 and Aggregate Properties (QC Lot: 1171594)								
HK0923918-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	17	15	10.2
HK0923918-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	14	14	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1171595)								
HK0923918-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	16	18	11.0
HK0923918-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	15	17	9.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1171596)								
HK0923918-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	17	18	10.4
HK0923918-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	16	16	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1171597)								
HK0923918-072	MPB2 MID-FLOOD B DUP	EA025: Suspended Solids (SS)	----	2	mg/L	13	14	10.6
HK0923918-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	14	14	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1171598)								
HK0923918-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	17	18	5.6
HK0923918-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	14	12	10.5
EA/ED: Physical and Aggregate Properties (QC Lot: 1171599)								
HK0923918-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	15	15	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171594)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	113	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171595)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171596)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171597)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171598)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	103	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1171599)												
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.



CERTIFICATE OF ANALYSIS

Client : ERM HONG KONG
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Order number : ---
C-O-C number : ---
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Quote number : HK/1426c/2009**

Page : 1 of 5
Work Order : **HK0923919**

Date received : 21-NOV-2009
Date of issue : 25-NOV-2009
No. of samples - *Received* : 102
- *Analysed* : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0923919 supersedes any previous reports with this reference. The completion date of analysis is 24-NOV-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 HK0923919 : **Sample(s) were collected by ALS Technichem (HK) staff on 21 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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Signatory
Fung Lim Chee, Richard

Position
General Manager

Authorised results for:-
Inorganics



Analytical Results

Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[21-NOV-2009]	HK0923919-001	27			
MPB1 MID-EBB S DUP	[21-NOV-2009]	HK0923919-002	29			
MPB1 MID-EBB M	[21-NOV-2009]	HK0923919-003	29			
MPB1 MID-EBB M DUP	[21-NOV-2009]	HK0923919-004	34			
MPB1 MID-EBB B	[21-NOV-2009]	HK0923919-005	30			
MPB1 MID-EBB B DUP	[21-NOV-2009]	HK0923919-006	27			
MPB2 MID-EBB S	[21-NOV-2009]	HK0923919-007	26			
MPB2 MID-EBB S DUP	[21-NOV-2009]	HK0923919-008	25			
MPB2 MID-EBB M	[21-NOV-2009]	HK0923919-009	22			
MPB2 MID-EBB M DUP	[21-NOV-2009]	HK0923919-010	23			
MPB2 MID-EBB B	[21-NOV-2009]	HK0923919-011	27			
MPB2 MID-EBB B DUP	[21-NOV-2009]	HK0923919-012	29			
MP MID-EBB S	[21-NOV-2009]	HK0923919-013	14			
MP MID-EBB S DUP	[21-NOV-2009]	HK0923919-014	12			
MP MID-EBB M	[21-NOV-2009]	HK0923919-015	12			
MP MID-EBB M DUP	[21-NOV-2009]	HK0923919-016	14			
MP MID-EBB B	[21-NOV-2009]	HK0923919-017	16			
MP MID-EBB B DUP	[21-NOV-2009]	HK0923919-018	14			
IMO1 MID-EBB S	[21-NOV-2009]	HK0923919-019	13			
IMO1 MID-EBB S DUP	[21-NOV-2009]	HK0923919-020	11			
IMO1 MID-EBB M	[21-NOV-2009]	HK0923919-021	13			
IMO1 MID-EBB M DUP	[21-NOV-2009]	HK0923919-022	14			
IMO1 MID-EBB B	[21-NOV-2009]	HK0923919-023	17			
IMO1 MID-EBB B DUP	[21-NOV-2009]	HK0923919-024	19			
IMO2 MID-EBB S	[21-NOV-2009]	HK0923919-025	12			
IMO2 MID-EBB S DUP	[21-NOV-2009]	HK0923919-026	13			
IMO2 MID-EBB M	[21-NOV-2009]	HK0923919-027	10			
IMO2 MID-EBB M DUP	[21-NOV-2009]	HK0923919-028	10			
IMO2 MID-EBB B	[21-NOV-2009]	HK0923919-029	12			
IMO2 MID-EBB B DUP	[21-NOV-2009]	HK0923919-030	11			
IMO5 MID-EBB S	[21-NOV-2009]	HK0923919-043	14			
IMO5 MID-EBB S DUP	[21-NOV-2009]	HK0923919-044	16			
IMO5 MID-EBB M	[21-NOV-2009]	HK0923919-045	14			
IMO5 MID-EBB M DUP	[21-NOV-2009]	HK0923919-046	15			
IMO5 MID-EBB B	[21-NOV-2009]	HK0923919-047	15			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[21-NOV-2009]	HK0923919-048	15			
IMO6 MID-EBB S	[21-NOV-2009]	HK0923919-049	16			
IMO6 MID-EBB S DUP	[21-NOV-2009]	HK0923919-050	16			
IMO6 MID-EBB M	[21-NOV-2009]	HK0923919-051	18			
IMO6 MID-EBB M DUP	[21-NOV-2009]	HK0923919-052	17			
IMO6 MID-EBB B	[21-NOV-2009]	HK0923919-053	18			
IMO6 MID-EBB B DUP	[21-NOV-2009]	HK0923919-054	18			
C2 (NM5) MID-EBB S	[21-NOV-2009]	HK0923919-055	21			
C2 (NM5) MID-EBB S DUP	[21-NOV-2009]	HK0923919-056	18			
C2 (NM5) MID-EBB M	[21-NOV-2009]	HK0923919-057	23			
C2 (NM5) MID-EBB M DUP	[21-NOV-2009]	HK0923919-058	26			
C2 (NM5) MID-EBB B	[21-NOV-2009]	HK0923919-059	25			
C2 (NM5) MID-EBB B DUP	[21-NOV-2009]	HK0923919-060	22			
MPB1 MID-FLOOD S	[21-NOV-2009]	HK0923919-061	20			
MPB1 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-062	20			
MPB1 MID-FLOOD M	[21-NOV-2009]	HK0923919-063	19			
MPB1 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-064	20			
MPB1 MID-FLOOD B	[21-NOV-2009]	HK0923919-065	22			
MPB1 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-066	19			
MPB2 MID-FLOOD S	[21-NOV-2009]	HK0923919-067	21			
MPB2 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-068	23			
MPB2 MID-FLOOD M	[21-NOV-2009]	HK0923919-069	23			
MPB2 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-070	26			
MPB2 MID-FLOOD B	[21-NOV-2009]	HK0923919-071	19			
MPB2 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-072	21			
MP MID-FLOOD S	[21-NOV-2009]	HK0923919-073	18			
MP MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-074	19			
MP MID-FLOOD M	[21-NOV-2009]	HK0923919-075	21			
MP MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-076	18			
MP MID-FLOOD B	[21-NOV-2009]	HK0923919-077	16			
MP MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-078	19			
IMO1 MID-FLOOD S	[21-NOV-2009]	HK0923919-079	16			
IMO1 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-080	18			
IMO1 MID-FLOOD M	[21-NOV-2009]	HK0923919-081	14			
IMO1 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-082	17			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO1 MID-FLOOD B	[21-NOV-2009]	HK0923919-083	15			
IMO1 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-084	18			
IMO2 MID-FLOOD S	[21-NOV-2009]	HK0923919-085	10			
IMO2 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-086	12			
IMO2 MID-FLOOD M	[21-NOV-2009]	HK0923919-087	11			
IMO2 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-088	13			
IMO2 MID-FLOOD B	[21-NOV-2009]	HK0923919-089	10			
IMO2 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-090	9			
IMO5 MID-FLOOD S	[21-NOV-2009]	HK0923919-103	19			
IMO5 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-104	22			
IMO5 MID-FLOOD M	[21-NOV-2009]	HK0923919-105	18			
IMO5 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-106	22			
IMO5 MID-FLOOD B	[21-NOV-2009]	HK0923919-107	20			
IMO5 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-108	18			
IMO6 MID-FLOOD S	[21-NOV-2009]	HK0923919-109	16			
IMO6 MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-110	15			
IMO6 MID-FLOOD M	[21-NOV-2009]	HK0923919-111	17			
IMO6 MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-112	17			
IMO6 MID-FLOOD B	[21-NOV-2009]	HK0923919-113	19			
IMO6 MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-114	18			
C1 (NM3) MID-FLOOD S	[21-NOV-2009]	HK0923919-115	21			
C1 (NM3) MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-116	23			
C1 (NM3) MID-FLOOD M	[21-NOV-2009]	HK0923919-117	26			
C1 (NM3) MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-118	28			
C1 (NM3) MID-FLOOD B	[21-NOV-2009]	HK0923919-119	22			
C1 (NM3) MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-120	21			
C3 (NM6) MID-FLOOD S	[21-NOV-2009]	HK0923919-121	20			
C3 (NM6) MID-FLOOD S DUP	[21-NOV-2009]	HK0923919-122	19			
C3 (NM6) MID-FLOOD M	[21-NOV-2009]	HK0923919-123	19			
C3 (NM6) MID-FLOOD M DUP	[21-NOV-2009]	HK0923919-124	17			
C3 (NM6) MID-FLOOD B	[21-NOV-2009]	HK0923919-125	18			
C3 (NM6) MID-FLOOD B DUP	[21-NOV-2009]	HK0923919-126	18			



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 and Aggregate Properties (QC Lot: 1173265)								
HK0923919-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	27	26	4.2
HK0923919-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	27	29	8.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173266)								
HK0923919-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	13	15	12.1
HK0923919-044	IMO5 MID-EBB S DUP	EA025: Suspended Solids (SS)	----	2	mg/L	16	16	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173267)								
HK0923919-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	18	20	11.2
HK0923919-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	19	19	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173268)								
HK0923919-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	18	17	8.9
HK0923919-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	15	16	9.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1173269)								
HK0923919-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	18	19	6.4
HK0923919-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	21	22	6.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173270)								
HK0923919-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	18	18	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173265)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	97.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173266)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173267)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173268)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173269)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QC Lot: 1173270)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 22-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 25-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924586 supersedes any previous reports with this reference. The completion date of analysis is 24-NOV-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 HK0924586 : **Sample(s) were collected by ALS Technichem (HK) staff on 22 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

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Analytical Results

Sub-Matrix: WATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[22-NOV-2009]	HK0924586-001		10			
MPB1 MID-EBB S DUP	[22-NOV-2009]	HK0924586-002		11			
MPB1 MID-EBB M	[22-NOV-2009]	HK0924586-003		12			
MPB1 MID-EBB M DUP	[22-NOV-2009]	HK0924586-004		13			
MPB1 MID-EBB B	[22-NOV-2009]	HK0924586-005		13			
MPB1 MID-EBB B DUP	[22-NOV-2009]	HK0924586-006		15			
MPB2 MID-EBB S	[22-NOV-2009]	HK0924586-007		11			
MPB2 MID-EBB S DUP	[22-NOV-2009]	HK0924586-008		13			
MPB2 MID-EBB M	[22-NOV-2009]	HK0924586-009		14			
MPB2 MID-EBB M DUP	[22-NOV-2009]	HK0924586-010		18			
MPB2 MID-EBB B	[22-NOV-2009]	HK0924586-011		13			
MPB2 MID-EBB B DUP	[22-NOV-2009]	HK0924586-012		10			
MP MID-EBB S	[22-NOV-2009]	HK0924586-013		12			
MP MID-EBB S DUP	[22-NOV-2009]	HK0924586-014		12			
MP MID-EBB M	[22-NOV-2009]	HK0924586-015		14			
MP MID-EBB M DUP	[22-NOV-2009]	HK0924586-016		14			
MP MID-EBB B	[22-NOV-2009]	HK0924586-017		10			
MP MID-EBB B DUP	[22-NOV-2009]	HK0924586-018		10			
IMO1 MID-EBB S	[22-NOV-2009]	HK0924586-019		12			
IMO1 MID-EBB S DUP	[22-NOV-2009]	HK0924586-020		14			
IMO1 MID-EBB M	[22-NOV-2009]	HK0924586-021		12			
IMO1 MID-EBB M DUP	[22-NOV-2009]	HK0924586-022		12			
IMO1 MID-EBB B	[22-NOV-2009]	HK0924586-023		13			
IMO1 MID-EBB B DUP	[22-NOV-2009]	HK0924586-024		13			
IMO2 MID-EBB S	[22-NOV-2009]	HK0924586-025		9			
IMO2 MID-EBB S DUP	[22-NOV-2009]	HK0924586-026		9			
IMO2 MID-EBB M	[22-NOV-2009]	HK0924586-027		9			
IMO2 MID-EBB M DUP	[22-NOV-2009]	HK0924586-028		11			
IMO2 MID-EBB B	[22-NOV-2009]	HK0924586-029		9			
IMO2 MID-EBB B DUP	[22-NOV-2009]	HK0924586-030		11			
IMO5 MID-EBB S	[22-NOV-2009]	HK0924586-043		15			
IMO5 MID-EBB S DUP	[22-NOV-2009]	HK0924586-044		14			
IMO5 MID-EBB M	[22-NOV-2009]	HK0924586-045		14			
IMO5 MID-EBB M DUP	[22-NOV-2009]	HK0924586-046		18			
IMO5 MID-EBB B	[22-NOV-2009]	HK0924586-047		15			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[22-NOV-2009]	HK0924586-048	14			
IMO6 MID-EBB S	[22-NOV-2009]	HK0924586-049	12			
IMO6 MID-EBB S DUP	[22-NOV-2009]	HK0924586-050	14			
IMO6 MID-EBB M	[22-NOV-2009]	HK0924586-051	14			
IMO6 MID-EBB M DUP	[22-NOV-2009]	HK0924586-052	12			
IMO6 MID-EBB B	[22-NOV-2009]	HK0924586-053	14			
IMO6 MID-EBB B DUP	[22-NOV-2009]	HK0924586-054	16			
C2 (NM5) MID-EBB S	[22-NOV-2009]	HK0924586-055	18			
C2 (NM5) MID-EBB S DUP	[22-NOV-2009]	HK0924586-056	18			
C2 (NM5) MID-EBB M	[22-NOV-2009]	HK0924586-057	18			
C2 (NM5) MID-EBB M DUP	[22-NOV-2009]	HK0924586-058	21			
C2 (NM5) MID-EBB B	[22-NOV-2009]	HK0924586-059	20			
C2 (NM5) MID-EBB B DUP	[22-NOV-2009]	HK0924586-060	19			
MPB1 MID-FLOOD S	[22-NOV-2009]	HK0924586-061	12			
MPB1 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-062	10			
MPB1 MID-FLOOD M	[22-NOV-2009]	HK0924586-063	11			
MPB1 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-064	14			
MPB1 MID-FLOOD B	[22-NOV-2009]	HK0924586-065	9			
MPB1 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-066	10			
MPB2 MID-FLOOD S	[22-NOV-2009]	HK0924586-067	10			
MPB2 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-068	11			
MPB2 MID-FLOOD M	[22-NOV-2009]	HK0924586-069	10			
MPB2 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-070	12			
MPB2 MID-FLOOD B	[22-NOV-2009]	HK0924586-071	10			
MPB2 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-072	10			
MP MID-FLOOD S	[22-NOV-2009]	HK0924586-073	11			
MP MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-074	12			
MP MID-FLOOD M	[22-NOV-2009]	HK0924586-075	13			
MP MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-076	14			
MP MID-FLOOD B	[22-NOV-2009]	HK0924586-077	9			
MP MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-078	11			
IMO1 MID-FLOOD S	[22-NOV-2009]	HK0924586-079	11			
IMO1 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-080	12			
IMO1 MID-FLOOD M	[22-NOV-2009]	HK0924586-081	12			
IMO1 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-082	15			



Sub-Matrix: WATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO1 MID-FLOOD B	[22-NOV-2009]	HK0924586-083	12				
IMO1 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-084	11				
IMO2 MID-FLOOD S	[22-NOV-2009]	HK0924586-085	10				
IMO2 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-086	13				
IMO2 MID-FLOOD M	[22-NOV-2009]	HK0924586-087	10				
IMO2 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-088	11				
IMO2 MID-FLOOD B	[22-NOV-2009]	HK0924586-089	11				
IMO2 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-090	10				
IMO5 MID-FLOOD S	[22-NOV-2009]	HK0924586-103	16				
IMO5 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-104	13				
IMO5 MID-FLOOD M	[22-NOV-2009]	HK0924586-105	16				
IMO5 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-106	15				
IMO5 MID-FLOOD B	[22-NOV-2009]	HK0924586-107	16				
IMO5 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-108	16				
IMO6 MID-FLOOD S	[22-NOV-2009]	HK0924586-109	15				
IMO6 MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-110	14				
IMO6 MID-FLOOD M	[22-NOV-2009]	HK0924586-111	15				
IMO6 MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-112	18				
IMO6 MID-FLOOD B	[22-NOV-2009]	HK0924586-113	17				
IMO6 MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-114	18				
C1 (NM3) MID-FLOOD S	[22-NOV-2009]	HK0924586-115	10				
C1 (NM3) MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-116	10				
C1 (NM3) MID-FLOOD M	[22-NOV-2009]	HK0924586-117	12				
C1 (NM3) MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-118	12				
C1 (NM3) MID-FLOOD B	[22-NOV-2009]	HK0924586-119	17				
C1 (NM3) MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-120	19				
C3 (NM6) MID-FLOOD S	[22-NOV-2009]	HK0924586-121	14				
C3 (NM6) MID-FLOOD S DUP	[22-NOV-2009]	HK0924586-122	14				
C3 (NM6) MID-FLOOD M	[22-NOV-2009]	HK0924586-123	14				
C3 (NM6) MID-FLOOD M DUP	[22-NOV-2009]	HK0924586-124	13				
C3 (NM6) MID-FLOOD B	[22-NOV-2009]	HK0924586-125	13				
C3 (NM6) MID-FLOOD B DUP	[22-NOV-2009]	HK0924586-126	13				



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 and Aggregate Properties (QC Lot: 1173272)								
HK0924586-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	10	12	11.9
HK0924586-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	13	15	16.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173273)								
HK0924586-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	11.5
HK0924586-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	15	13	12.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1173274)								
HK0924586-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	14	16	9.6
HK0924586-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173275)								
HK0924586-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	11	10	11.4
HK0924586-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	12	12	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173276)								
HK0924586-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	16	16	0.0
HK0924586-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	10	11	9.5
EA/ED: Physical and Aggregate Properties (QC Lot: 1173278)								
HK0924586-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	13	12	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1173272)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	86.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173273)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173274)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	107	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173275)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173276)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173278)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Order number</i>	: ---			<i>Date of issue</i>	: 26-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924550 supersedes any previous reports with this reference. The completion date of analysis is 26-NOV-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 HK0924550 : **Sample(s) were collected by ALS Technichem (HK) staff on 23 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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Analytical Results

Sub-Matrix: WATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[23-NOV-2009]	HK0924550-001	8				
MPB1 MID-EBB S DUP	[23-NOV-2009]	HK0924550-002	9				
MPB1 MID-EBB M	[23-NOV-2009]	HK0924550-003	8				
MPB1 MID-EBB M DUP	[23-NOV-2009]	HK0924550-004	9				
MPB1 MID-EBB B	[23-NOV-2009]	HK0924550-005	10				
MPB1 MID-EBB B DUP	[23-NOV-2009]	HK0924550-006	11				
MPB2 MID-EBB S	[23-NOV-2009]	HK0924550-007	8				
MPB2 MID-EBB S DUP	[23-NOV-2009]	HK0924550-008	9				
MPB2 MID-EBB M	[23-NOV-2009]	HK0924550-009	11				
MPB2 MID-EBB M DUP	[23-NOV-2009]	HK0924550-010	10				
MPB2 MID-EBB B	[23-NOV-2009]	HK0924550-011	10				
MPB2 MID-EBB B DUP	[23-NOV-2009]	HK0924550-012	9				
MP MID-EBB S	[23-NOV-2009]	HK0924550-013	11				
MP MID-EBB S DUP	[23-NOV-2009]	HK0924550-014	11				
MP MID-EBB M	[23-NOV-2009]	HK0924550-015	10				
MP MID-EBB M DUP	[23-NOV-2009]	HK0924550-016	10				
MP MID-EBB B	[23-NOV-2009]	HK0924550-017	9				
MP MID-EBB B DUP	[23-NOV-2009]	HK0924550-018	10				
IMO1 MID-EBB S	[23-NOV-2009]	HK0924550-019	10				
IMO1 MID-EBB S DUP	[23-NOV-2009]	HK0924550-020	9				
IMO1 MID-EBB M	[23-NOV-2009]	HK0924550-021	8				
IMO1 MID-EBB M DUP	[23-NOV-2009]	HK0924550-022	6				
IMO1 MID-EBB B	[23-NOV-2009]	HK0924550-023	8				
IMO1 MID-EBB B DUP	[23-NOV-2009]	HK0924550-024	9				
IMO2 MID-EBB S	[23-NOV-2009]	HK0924550-025	10				
IMO2 MID-EBB S DUP	[23-NOV-2009]	HK0924550-026	9				
IMO2 MID-EBB M	[23-NOV-2009]	HK0924550-027	9				
IMO2 MID-EBB M DUP	[23-NOV-2009]	HK0924550-028	8				
IMO2 MID-EBB B	[23-NOV-2009]	HK0924550-029	9				
IMO2 MID-EBB B DUP	[23-NOV-2009]	HK0924550-030	8				
IMO5 MID-EBB S	[23-NOV-2009]	HK0924550-043	8				
IMO5 MID-EBB S DUP	[23-NOV-2009]	HK0924550-044	8				
IMO5 MID-EBB M	[23-NOV-2009]	HK0924550-045	8				
IMO5 MID-EBB M DUP	[23-NOV-2009]	HK0924550-046	9				
IMO5 MID-EBB B	[23-NOV-2009]	HK0924550-047	12				



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[23-NOV-2009]	HK0924550-048	11			
IMO6 MID-EBB S	[23-NOV-2009]	HK0924550-049	11			
IMO6 MID-EBB S DUP	[23-NOV-2009]	HK0924550-050	10			
IMO6 MID-EBB M	[23-NOV-2009]	HK0924550-051	11			
IMO6 MID-EBB M DUP	[23-NOV-2009]	HK0924550-052	12			
IMO6 MID-EBB B	[23-NOV-2009]	HK0924550-053	11			
IMO6 MID-EBB B DUP	[23-NOV-2009]	HK0924550-054	14			
C2 (NM5) MID-EBB S	[23-NOV-2009]	HK0924550-055	12			
C2 (NM5) MID-EBB S DUP	[23-NOV-2009]	HK0924550-056	13			
C2 (NM5) MID-EBB M	[23-NOV-2009]	HK0924550-057	19			
C2 (NM5) MID-EBB M DUP	[23-NOV-2009]	HK0924550-058	16			
C2 (NM5) MID-EBB B	[23-NOV-2009]	HK0924550-059	14			
C2 (NM5) MID-EBB B DUP	[23-NOV-2009]	HK0924550-060	15			
MPB1 MID-FLOOD S	[23-NOV-2009]	HK0924550-061	10			
MPB1 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-062	9			
MPB1 MID-FLOOD M	[23-NOV-2009]	HK0924550-063	11			
MPB1 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-064	9			
MPB1 MID-FLOOD B	[23-NOV-2009]	HK0924550-065	13			
MPB1 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-066	14			
MPB2 MID-FLOOD S	[23-NOV-2009]	HK0924550-067	10			
MPB2 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-068	10			
MPB2 MID-FLOOD M	[23-NOV-2009]	HK0924550-069	9			
MPB2 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-070	11			
MPB2 MID-FLOOD B	[23-NOV-2009]	HK0924550-071	13			
MPB2 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-072	15			
MP MID-FLOOD S	[23-NOV-2009]	HK0924550-073	12			
MP MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-074	12			
MP MID-FLOOD M	[23-NOV-2009]	HK0924550-075	13			
MP MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-076	13			
MP MID-FLOOD B	[23-NOV-2009]	HK0924550-077	16			
MP MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-078	18			
IMO1 MID-FLOOD S	[23-NOV-2009]	HK0924550-079	15			
IMO1 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-080	12			
IMO1 MID-FLOOD M	[23-NOV-2009]	HK0924550-081	14			
IMO1 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-082	15			



Sub-Matrix: WATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO1 MID-FLOOD B	[23-NOV-2009]	HK0924550-083	13			
IMO1 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-084	13			
IMO2 MID-FLOOD S	[23-NOV-2009]	HK0924550-085	9			
IMO2 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-086	7			
IMO2 MID-FLOOD M	[23-NOV-2009]	HK0924550-087	11			
IMO2 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-088	10			
IMO2 MID-FLOOD B	[23-NOV-2009]	HK0924550-089	12			
IMO2 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-090	13			
IMO5 MID-FLOOD S	[23-NOV-2009]	HK0924550-103	10			
IMO5 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-104	12			
IMO5 MID-FLOOD M	[23-NOV-2009]	HK0924550-105	13			
IMO5 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-106	12			
IMO5 MID-FLOOD B	[23-NOV-2009]	HK0924550-107	16			
IMO5 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-108	13			
IMO6 MID-FLOOD S	[23-NOV-2009]	HK0924550-109	9			
IMO6 MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-110	8			
IMO6 MID-FLOOD M	[23-NOV-2009]	HK0924550-111	10			
IMO6 MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-112	12			
IMO6 MID-FLOOD B	[23-NOV-2009]	HK0924550-113	16			
IMO6 MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-114	16			
C1 (NM3) MID-FLOOD S	[23-NOV-2009]	HK0924550-115	9			
C1 (NM3) MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-116	9			
C1 (NM3) MID-FLOOD M	[23-NOV-2009]	HK0924550-117	9			
C1 (NM3) MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-118	10			
C1 (NM3) MID-FLOOD B	[23-NOV-2009]	HK0924550-119	10			
C1 (NM3) MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-120	9			
C3 (NM6) MID-FLOOD S	[23-NOV-2009]	HK0924550-121	11			
C3 (NM6) MID-FLOOD S DUP	[23-NOV-2009]	HK0924550-122	10			
C3 (NM6) MID-FLOOD M	[23-NOV-2009]	HK0924550-123	12			
C3 (NM6) MID-FLOOD M DUP	[23-NOV-2009]	HK0924550-124	11			
C3 (NM6) MID-FLOOD B	[23-NOV-2009]	HK0924550-125	9			
C3 (NM6) MID-FLOOD B DUP	[23-NOV-2009]	HK0924550-126	8			



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 and Aggregate Properties (QC Lot: 1173313)								
HK0924550-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	8	10	12.2
HK0924550-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	10	8	12.9
EA/ED: Physical and Aggregate Properties (QC Lot: 1173316)								
HK0924550-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
HK0924550-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	8	10	15.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1173317)								
HK0924550-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	11	12	10.2
HK0924550-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	11	10	10.8
EA/ED: Physical and Aggregate Properties (QC Lot: 1173318)								
HK0924550-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	12	12	0.0
HK0924550-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	13	15	11.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1173319)								
HK0924550-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	13	13	0.0
HK0924550-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1173320)								
HK0924550-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	12.0

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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1173313)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173316)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	103	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173317)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173318)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	95.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173319)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1173320)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.5	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 24-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 27-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 90
<i>Site</i>	: ---				- <i>Analysed</i> : 90

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924587 supersedes any previous reports with this reference. The completion date of analysis is 26-NOV-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 HK0924587 : **Sample(s) were collected by ALS Technichem (HK) staff on 24 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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Fung Lim Chee, Richard	General Manager	Inorganics

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Analytical Results

Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[24-NOV-2009]	HK0924587-001	12				
MPB1 MID-EBB S DUP	[24-NOV-2009]	HK0924587-002	10				
MPB1 MID-EBB M	[24-NOV-2009]	HK0924587-003	11				
MPB1 MID-EBB M DUP	[24-NOV-2009]	HK0924587-004	9				
MPB1 MID-EBB B	[24-NOV-2009]	HK0924587-005	12				
MPB1 MID-EBB B DUP	[24-NOV-2009]	HK0924587-006	11				
MPB2 MID-EBB S	[24-NOV-2009]	HK0924587-007	9				
MPB2 MID-EBB S DUP	[24-NOV-2009]	HK0924587-008	8				
MPB2 MID-EBB M	[24-NOV-2009]	HK0924587-009	11				
MPB2 MID-EBB M DUP	[24-NOV-2009]	HK0924587-010	9				
MPB2 MID-EBB B	[24-NOV-2009]	HK0924587-011	11				
MPB2 MID-EBB B DUP	[24-NOV-2009]	HK0924587-012	10				
MP MID-EBB S	[24-NOV-2009]	HK0924587-013	9				
MP MID-EBB S DUP	[24-NOV-2009]	HK0924587-014	10				
MP MID-EBB M	[24-NOV-2009]	HK0924587-015	12				
MP MID-EBB M DUP	[24-NOV-2009]	HK0924587-016	13				
MP MID-EBB B	[24-NOV-2009]	HK0924587-017	10				
MP MID-EBB B DUP	[24-NOV-2009]	HK0924587-018	12				
IMO5 MID-EBB S	[24-NOV-2009]	HK0924587-043	12				
IMO5 MID-EBB S DUP	[24-NOV-2009]	HK0924587-044	10				
IMO5 MID-EBB M	[24-NOV-2009]	HK0924587-045	10				
IMO5 MID-EBB M DUP	[24-NOV-2009]	HK0924587-046	8				
IMO5 MID-EBB B	[24-NOV-2009]	HK0924587-047	12				
IMO5 MID-EBB B DUP	[24-NOV-2009]	HK0924587-048	10				
IMO6 MID-EBB S	[24-NOV-2009]	HK0924587-049	8				
IMO6 MID-EBB S DUP	[24-NOV-2009]	HK0924587-050	10				
IMO6 MID-EBB M	[24-NOV-2009]	HK0924587-051	12				
IMO6 MID-EBB M DUP	[24-NOV-2009]	HK0924587-052	11				
IMO6 MID-EBB B	[24-NOV-2009]	HK0924587-053	10				
IMO6 MID-EBB B DUP	[24-NOV-2009]	HK0924587-054	11				
C2 (NM5) MID-EBB S	[24-NOV-2009]	HK0924587-055	12				
C2 (NM5) MID-EBB S DUP	[24-NOV-2009]	HK0924587-056	13				
C2 (NM5) MID-EBB M	[24-NOV-2009]	HK0924587-057	12				
C2 (NM5) MID-EBB M DUP	[24-NOV-2009]	HK0924587-058	14				
C2 (NM5) MID-EBB B	[24-NOV-2009]	HK0924587-059	9				



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
C2 (NM5) MID-EBB B DUP	[24-NOV-2009]	HK0924587-060	10			
MPB1 MID-FLOOD S	[24-NOV-2009]	HK0924587-061	8			
MPB1 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-062	7			
MPB1 MID-FLOOD M	[24-NOV-2009]	HK0924587-063	10			
MPB1 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-064	8			
MPB1 MID-FLOOD B	[24-NOV-2009]	HK0924587-065	8			
MPB1 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-066	9			
MPB2 MID-FLOOD S	[24-NOV-2009]	HK0924587-067	7			
MPB2 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-068	7			
MPB2 MID-FLOOD M	[24-NOV-2009]	HK0924587-069	7			
MPB2 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-070	6			
MPB2 MID-FLOOD B	[24-NOV-2009]	HK0924587-071	8			
MPB2 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-072	10			
MP MID-FLOOD S	[24-NOV-2009]	HK0924587-073	6			
MP MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-074	7			
MP MID-FLOOD M	[24-NOV-2009]	HK0924587-075	5			
MP MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-076	6			
MP MID-FLOOD B	[24-NOV-2009]	HK0924587-077	10			
MP MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-078	9			
IMO1 MID-FLOOD S	[24-NOV-2009]	HK0924587-079	13			
IMO1 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-080	10			
IMO1 MID-FLOOD M	[24-NOV-2009]	HK0924587-081	10			
IMO1 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-082	10			
IMO1 MID-FLOOD B	[24-NOV-2009]	HK0924587-083	10			
IMO1 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-084	10			
IMO2 MID-FLOOD S	[24-NOV-2009]	HK0924587-085	8			
IMO2 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-086	8			
IMO2 MID-FLOOD M	[24-NOV-2009]	HK0924587-087	10			
IMO2 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-088	11			
IMO2 MID-FLOOD B	[24-NOV-2009]	HK0924587-089	14			
IMO2 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-090	12			
IMO5 MID-FLOOD S	[24-NOV-2009]	HK0924587-103	9			
IMO5 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-104	8			
IMO5 MID-FLOOD M	[24-NOV-2009]	HK0924587-105	6			
IMO5 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-106	8			



Sub-Matrix: SEAWATER

			Compound				
			EA025: Suspended Solids (SS)				
			LOR Unit				
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO5 MID-FLOOD B	[24-NOV-2009]	HK0924587-107	7				
IMO5 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-108	6				
IMO6 MID-FLOOD S	[24-NOV-2009]	HK0924587-109	7				
IMO6 MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-110	8				
IMO6 MID-FLOOD M	[24-NOV-2009]	HK0924587-111	7				
IMO6 MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-112	8				
IMO6 MID-FLOOD B	[24-NOV-2009]	HK0924587-113	7				
IMO6 MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-114	8				
C1 (NM3) MID-FLOOD S	[24-NOV-2009]	HK0924587-115	6				
C1 (NM3) MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-116	5				
C1 (NM3) MID-FLOOD M	[24-NOV-2009]	HK0924587-117	7				
C1 (NM3) MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-118	8				
C1 (NM3) MID-FLOOD B	[24-NOV-2009]	HK0924587-119	9				
C1 (NM3) MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-120	10				
C3 (NM6) MID-FLOOD S	[24-NOV-2009]	HK0924587-121	10				
C3 (NM6) MID-FLOOD S DUP	[24-NOV-2009]	HK0924587-122	11				
C3 (NM6) MID-FLOOD M	[24-NOV-2009]	HK0924587-123	8				
C3 (NM6) MID-FLOOD M DUP	[24-NOV-2009]	HK0924587-124	9				
C3 (NM6) MID-FLOOD B	[24-NOV-2009]	HK0924587-125	9				
C3 (NM6) MID-FLOOD B DUP	[24-NOV-2009]	HK0924587-126	7				



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 and Aggregate Properties (QC Lot: 1175409)								
HK0924587-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	14	13.0
HK0924587-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	11	9	16.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1175410)								
HK0924587-045	IMO5 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	10	9	0.0
HK0924587-055	C2 (NM5) MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	10	12.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1175411)								
HK0924587-065	MPB1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	10	15.0
HK0924587-075	MP MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	5	6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1175412)								
HK0924587-085	IMO2 MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	8	7	0.0
HK0924587-107	IMO5 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1175413)								
HK0924587-117	C1 (NM3) MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	13.0

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						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1175409)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1175410)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1175411)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1175412)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1175413)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	105	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS KAREN LUI	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0924726
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 25-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 30-NOV-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924726 supersedes any previous reports with this reference. The completion date of analysis is 30-NOV-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 HK0924726 : **Sample(s) were collected by ALS Technichem (HK) staff on 25 November, 2009 pm.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
Fung Lim Chee, Richard	General Manager	Inorganics

ALS Laboratory Group

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Analytical Results

Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[25-NOV-2009]	HK0924726-001	12				
MPB1 MID-EBB S DUP	[25-NOV-2009]	HK0924726-002	11				
MPB1 MID-EBB M	[25-NOV-2009]	HK0924726-003	13				
MPB1 MID-EBB M DUP	[25-NOV-2009]	HK0924726-004	10				
MPB1 MID-EBB B	[25-NOV-2009]	HK0924726-005	11				
MPB1 MID-EBB B DUP	[25-NOV-2009]	HK0924726-006	12				
MPB2 MID-EBB S	[25-NOV-2009]	HK0924726-007	11				
MPB2 MID-EBB S DUP	[25-NOV-2009]	HK0924726-008	10				
MPB2 MID-EBB M	[25-NOV-2009]	HK0924726-009	11				
MPB2 MID-EBB M DUP	[25-NOV-2009]	HK0924726-010	10				
MPB2 MID-EBB B	[25-NOV-2009]	HK0924726-011	17				
MPB2 MID-EBB B DUP	[25-NOV-2009]	HK0924726-012	16				
MP MID-EBB S	[25-NOV-2009]	HK0924726-013	14				
MP MID-EBB S DUP	[25-NOV-2009]	HK0924726-014	16				
MP MID-EBB M	[25-NOV-2009]	HK0924726-015	12				
MP MID-EBB M DUP	[25-NOV-2009]	HK0924726-016	15				
MP MID-EBB B	[25-NOV-2009]	HK0924726-017	15				
MP MID-EBB B DUP	[25-NOV-2009]	HK0924726-018	13				
IMO1 MID-EBB S	[25-NOV-2009]	HK0924726-019	10				
IMO1 MID-EBB S DUP	[25-NOV-2009]	HK0924726-020	9				
IMO1 MID-EBB M	[25-NOV-2009]	HK0924726-021	10				
IMO1 MID-EBB M DUP	[25-NOV-2009]	HK0924726-022	9				
IMO1 MID-EBB B	[25-NOV-2009]	HK0924726-023	10				
IMO1 MID-EBB B DUP	[25-NOV-2009]	HK0924726-024	12				
IMO2 MID-EBB S	[25-NOV-2009]	HK0924726-025	10				
IMO2 MID-EBB S DUP	[25-NOV-2009]	HK0924726-026	12				
IMO2 MID-EBB M	[25-NOV-2009]	HK0924726-027	13				
IMO2 MID-EBB M DUP	[25-NOV-2009]	HK0924726-028	11				
IMO2 MID-EBB B	[25-NOV-2009]	HK0924726-029	11				
IMO2 MID-EBB B DUP	[25-NOV-2009]	HK0924726-030	13				
IMO5 MID-EBB S	[25-NOV-2009]	HK0924726-043	18				
IMO5 MID-EBB S DUP	[25-NOV-2009]	HK0924726-044	22				
IMO5 MID-EBB M	[25-NOV-2009]	HK0924726-045	15				
IMO5 MID-EBB M DUP	[25-NOV-2009]	HK0924726-046	16				
IMO5 MID-EBB B	[25-NOV-2009]	HK0924726-047	16				



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO5 MID-EBB B DUP	[25-NOV-2009]	HK0924726-048	14				
IMO6 MID-EBB S	[25-NOV-2009]	HK0924726-049	9				
IMO6 MID-EBB S DUP	[25-NOV-2009]	HK0924726-050	10				
IMO6 MID-EBB M	[25-NOV-2009]	HK0924726-051	13				
IMO6 MID-EBB M DUP	[25-NOV-2009]	HK0924726-052	10				
IMO6 MID-EBB B	[25-NOV-2009]	HK0924726-053	13				
IMO6 MID-EBB B DUP	[25-NOV-2009]	HK0924726-054	11				
C2 (NM5) MID-EBB S	[25-NOV-2009]	HK0924726-055	8				
C2 (NM5) MID-EBB S DUP	[25-NOV-2009]	HK0924726-056	9				
C2 (NM5) MID-EBB M	[25-NOV-2009]	HK0924726-057	15				
C2 (NM5) MID-EBB M DUP	[25-NOV-2009]	HK0924726-058	16				
C2 (NM5) MID-EBB B	[25-NOV-2009]	HK0924726-059	12				
C2 (NM5) MID-EBB B DUP	[25-NOV-2009]	HK0924726-060	12				
MPB1 MID-FLOOD S	[25-NOV-2009]	HK0924726-061	11				
MPB1 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-062	11				
MPB1 MID-FLOOD M	[25-NOV-2009]	HK0924726-063	11				
MPB1 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-064	11				
MPB1 MID-FLOOD B	[25-NOV-2009]	HK0924726-065	9				
MPB1 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-066	10				
MPB2 MID-FLOOD S	[25-NOV-2009]	HK0924726-067	12				
MPB2 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-068	13				
MPB2 MID-FLOOD M	[25-NOV-2009]	HK0924726-069	10				
MPB2 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-070	11				
MPB2 MID-FLOOD B	[25-NOV-2009]	HK0924726-071	10				
MPB2 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-072	8				
MP MID-FLOOD S	[25-NOV-2009]	HK0924726-073	8				
MP MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-074	10				
MP MID-FLOOD M	[25-NOV-2009]	HK0924726-075	13				
MP MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-076	11				
MP MID-FLOOD B	[25-NOV-2009]	HK0924726-077	12				
MP MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-078	10				
IMO1 MID-FLOOD S	[25-NOV-2009]	HK0924726-079	18				
IMO1 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-080	16				
IMO1 MID-FLOOD M	[25-NOV-2009]	HK0924726-081	16				
IMO1 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-082	15				



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO1 MID-FLOOD B	[25-NOV-2009]	HK0924726-083	16				
IMO1 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-084	17				
IMO2 MID-FLOOD S	[25-NOV-2009]	HK0924726-085	8				
IMO2 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-086	8				
IMO2 MID-FLOOD M	[25-NOV-2009]	HK0924726-087	8				
IMO2 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-088	9				
IMO2 MID-FLOOD B	[25-NOV-2009]	HK0924726-089	14				
IMO2 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-090	16				
IMO5 MID-FLOOD S	[25-NOV-2009]	HK0924726-103	14				
IMO5 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-104	13				
IMO5 MID-FLOOD M	[25-NOV-2009]	HK0924726-105	14				
IMO5 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-106	13				
IMO5 MID-FLOOD B	[25-NOV-2009]	HK0924726-107	16				
IMO5 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-108	17				
IMO6 MID-FLOOD S	[25-NOV-2009]	HK0924726-109	10				
IMO6 MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-110	10				
IMO6 MID-FLOOD M	[25-NOV-2009]	HK0924726-111	13				
IMO6 MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-112	11				
IMO6 MID-FLOOD B	[25-NOV-2009]	HK0924726-113	9				
IMO6 MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-114	11				
C1 (NM3) MID-FLOOD S	[25-NOV-2009]	HK0924726-115	9				
C1 (NM3) MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-116	8				
C1 (NM3) MID-FLOOD M	[25-NOV-2009]	HK0924726-117	7				
C1 (NM3) MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-118	7				
C1 (NM3) MID-FLOOD B	[25-NOV-2009]	HK0924726-119	8				
C1 (NM3) MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-120	7				
C3 (NM6) MID-FLOOD S	[25-NOV-2009]	HK0924726-121	7				
C3 (NM6) MID-FLOOD S DUP	[25-NOV-2009]	HK0924726-122	6				
C3 (NM6) MID-FLOOD M	[25-NOV-2009]	HK0924726-123	8				
C3 (NM6) MID-FLOOD M DUP	[25-NOV-2009]	HK0924726-124	8				
C3 (NM6) MID-FLOOD B	[25-NOV-2009]	HK0924726-125	7				
C3 (NM6) MID-FLOOD B DUP	[25-NOV-2009]	HK0924726-126	6				



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 and Aggregate Properties (QC Lot: 1176872)								
HK0924726-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	10	12.9
HK0924726-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	17	16	9.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1176873)								
HK0924726-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	10	12	12.0
HK0924726-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	18	20	10.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1176874)								
HK0924726-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	13	12	10.0
HK0924726-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1176875)								
HK0924726-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	8	9	0.0
HK0924726-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	16	17	6.1
EA/ED: Physical and Aggregate Properties (QC Lot: 1176876)								
HK0924726-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	14	13	0.0
HK0924726-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1176877)								
HK0924726-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1176872)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1176873)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1176874)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1176875)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	103	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1176876)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	111	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1176877)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	91.0	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 26-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 01-DEC-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924841 supersedes any previous reports with this reference. The completion date of analysis is 30-NOV-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 HK0924841 : **Sample(s) were collected by ALS Technichem (HK) staff on 26 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
			EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[26-NOV-2009]	HK0924841-001		10			
MPB1 MID-EBB S DUP	[26-NOV-2009]	HK0924841-002		9			
MPB1 MID-EBB M	[26-NOV-2009]	HK0924841-003		12			
MPB1 MID-EBB M DUP	[26-NOV-2009]	HK0924841-004		10			
MPB1 MID-EBB B	[26-NOV-2009]	HK0924841-005		9			
MPB1 MID-EBB B DUP	[26-NOV-2009]	HK0924841-006		8			
MPB2 MID-EBB S	[26-NOV-2009]	HK0924841-007		8			
MPB2 MID-EBB S DUP	[26-NOV-2009]	HK0924841-008		9			
MPB2 MID-EBB M	[26-NOV-2009]	HK0924841-009		10			
MPB2 MID-EBB M DUP	[26-NOV-2009]	HK0924841-010		12			
MPB2 MID-EBB B	[26-NOV-2009]	HK0924841-011		12			
MPB2 MID-EBB B DUP	[26-NOV-2009]	HK0924841-012		10			
MP MID-EBB S	[26-NOV-2009]	HK0924841-013		12			
MP MID-EBB S DUP	[26-NOV-2009]	HK0924841-014		10			
MP MID-EBB M	[26-NOV-2009]	HK0924841-015		9			
MP MID-EBB M DUP	[26-NOV-2009]	HK0924841-016		7			
MP MID-EBB B	[26-NOV-2009]	HK0924841-017		13			
MP MID-EBB B DUP	[26-NOV-2009]	HK0924841-018		15			
IMO1 MID-EBB S	[26-NOV-2009]	HK0924841-019		7			
IMO1 MID-EBB S DUP	[26-NOV-2009]	HK0924841-020		6			
IMO1 MID-EBB M	[26-NOV-2009]	HK0924841-021		9			
IMO1 MID-EBB M DUP	[26-NOV-2009]	HK0924841-022		9			
IMO1 MID-EBB B	[26-NOV-2009]	HK0924841-023		7			
IMO1 MID-EBB B DUP	[26-NOV-2009]	HK0924841-024		9			
IMO2 MID-EBB S	[26-NOV-2009]	HK0924841-025		14			
IMO2 MID-EBB S DUP	[26-NOV-2009]	HK0924841-026		16			
IMO2 MID-EBB M	[26-NOV-2009]	HK0924841-027		10			
IMO2 MID-EBB M DUP	[26-NOV-2009]	HK0924841-028		14			
IMO2 MID-EBB B	[26-NOV-2009]	HK0924841-029		8			
IMO2 MID-EBB B DUP	[26-NOV-2009]	HK0924841-030		10			
IMO5 MID-EBB S	[26-NOV-2009]	HK0924841-043		11			
IMO5 MID-EBB S DUP	[26-NOV-2009]	HK0924841-044		10			
IMO5 MID-EBB M	[26-NOV-2009]	HK0924841-045		12			
IMO5 MID-EBB M DUP	[26-NOV-2009]	HK0924841-046		15			
IMO5 MID-EBB B	[26-NOV-2009]	HK0924841-047		7			



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[26-NOV-2009]	HK0924841-048	5			
IMO6 MID-EBB S	[26-NOV-2009]	HK0924841-049	10			
IMO6 MID-EBB S DUP	[26-NOV-2009]	HK0924841-050	12			
IMO6 MID-EBB M	[26-NOV-2009]	HK0924841-051	12			
IMO6 MID-EBB M DUP	[26-NOV-2009]	HK0924841-052	12			
IMO6 MID-EBB B	[26-NOV-2009]	HK0924841-053	9			
IMO6 MID-EBB B DUP	[26-NOV-2009]	HK0924841-054	11			
C2 (NM5) MID-EBB S	[26-NOV-2009]	HK0924841-055	14			
C2 (NM5) MID-EBB S DUP	[26-NOV-2009]	HK0924841-056	13			
C2 (NM5) MID-EBB M	[26-NOV-2009]	HK0924841-057	9			
C2 (NM5) MID-EBB M DUP	[26-NOV-2009]	HK0924841-058	7			
C2 (NM5) MID-EBB B	[26-NOV-2009]	HK0924841-059	7			
C2 (NM5) MID-EBB B DUP	[26-NOV-2009]	HK0924841-060	9			
MPB1 MID-FLOOD S	[26-NOV-2009]	HK0924841-061	10			
MPB1 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-062	9			
MPB1 MID-FLOOD M	[26-NOV-2009]	HK0924841-063	12			
MPB1 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-064	12			
MPB1 MID-FLOOD B	[26-NOV-2009]	HK0924841-065	11			
MPB1 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-066	10			
MPB2 MID-FLOOD S	[26-NOV-2009]	HK0924841-067	8			
MPB2 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-068	10			
MPB2 MID-FLOOD M	[26-NOV-2009]	HK0924841-069	9			
MPB2 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-070	7			
MPB2 MID-FLOOD B	[26-NOV-2009]	HK0924841-071	8			
MPB2 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-072	10			
MP MID-FLOOD S	[26-NOV-2009]	HK0924841-073	12			
MP MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-074	11			
MP MID-FLOOD M	[26-NOV-2009]	HK0924841-075	11			
MP MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-076	13			
MP MID-FLOOD B	[26-NOV-2009]	HK0924841-077	11			
MP MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-078	12			
IMO1 MID-FLOOD S	[26-NOV-2009]	HK0924841-079	10			
IMO1 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-080	10			
IMO1 MID-FLOOD M	[26-NOV-2009]	HK0924841-081	6			
IMO1 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-082	7			



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO1 MID-FLOOD B	[26-NOV-2009]	HK0924841-083	8			
IMO1 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-084	7			
IMO2 MID-FLOOD S	[26-NOV-2009]	HK0924841-085	8			
IMO2 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-086	6			
IMO2 MID-FLOOD M	[26-NOV-2009]	HK0924841-087	9			
IMO2 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-088	7			
IMO2 MID-FLOOD B	[26-NOV-2009]	HK0924841-089	7			
IMO2 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-090	6			
IMO5 MID-FLOOD S	[26-NOV-2009]	HK0924841-103	8			
IMO5 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-104	10			
IMO5 MID-FLOOD M	[26-NOV-2009]	HK0924841-105	8			
IMO5 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-106	6			
IMO5 MID-FLOOD B	[26-NOV-2009]	HK0924841-107	8			
IMO5 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-108	8			
IMO6 MID-FLOOD S	[26-NOV-2009]	HK0924841-109	10			
IMO6 MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-110	12			
IMO6 MID-FLOOD M	[26-NOV-2009]	HK0924841-111	9			
IMO6 MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-112	9			
IMO6 MID-FLOOD B	[26-NOV-2009]	HK0924841-113	10			
IMO6 MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-114	9			
C1 (NM3) MID-FLOOD S	[26-NOV-2009]	HK0924841-115	9			
C1 (NM3) MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-116	8			
C1 (NM3) MID-FLOOD M	[26-NOV-2009]	HK0924841-117	8			
C1 (NM3) MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-118	8			
C1 (NM3) MID-FLOOD B	[26-NOV-2009]	HK0924841-119	9			
C1 (NM3) MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-120	10			
C3 (NM6) MID-FLOOD S	[26-NOV-2009]	HK0924841-121	12			
C3 (NM6) MID-FLOOD S DUP	[26-NOV-2009]	HK0924841-122	11			
C3 (NM6) MID-FLOOD M	[26-NOV-2009]	HK0924841-123	6			
C3 (NM6) MID-FLOOD M DUP	[26-NOV-2009]	HK0924841-124	8			
C3 (NM6) MID-FLOOD B	[26-NOV-2009]	HK0924841-125	10			
C3 (NM6) MID-FLOOD B DUP	[26-NOV-2009]	HK0924841-126	6			



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 and Aggregate Properties (QC Lot: 1177040)								
HK0924841-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	10	11	0.0
HK0924841-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	11.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1177041)								
HK0924841-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	13.8
HK0924841-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	11	12	10.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1177042)								
HK0924841-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	11.7
HK0924841-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	12	10	14.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1177043)								
HK0924841-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	12	10	12.1
HK0924841-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1177044)								
HK0924841-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
HK0924841-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1177045)								
HK0924841-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	10	9	12.0

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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1177040)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	98.0	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1177041)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	101	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1177042)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1177043)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	91.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1177044)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1177045)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	109	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS KAREN LUI	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0924842
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 27-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 02-DEC-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924842 supersedes any previous reports with this reference. The completion date of analysis is 01-DEC-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 HK0924842 : **Sample(s) were collected by ALS Technichem (HK) staff on 27 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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ALS Laboratory Group

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Analytical Results

Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[27-NOV-2009]	HK0924842-001	9				
MPB1 MID-EBB S DUP	[27-NOV-2009]	HK0924842-002	9				
MPB1 MID-EBB M	[27-NOV-2009]	HK0924842-003	12				
MPB1 MID-EBB M DUP	[27-NOV-2009]	HK0924842-004	10				
MPB1 MID-EBB B	[27-NOV-2009]	HK0924842-005	10				
MPB1 MID-EBB B DUP	[27-NOV-2009]	HK0924842-006	9				
MPB2 MID-EBB S	[27-NOV-2009]	HK0924842-007	8				
MPB2 MID-EBB S DUP	[27-NOV-2009]	HK0924842-008	5				
MPB2 MID-EBB M	[27-NOV-2009]	HK0924842-009	8				
MPB2 MID-EBB M DUP	[27-NOV-2009]	HK0924842-010	8				
MPB2 MID-EBB B	[27-NOV-2009]	HK0924842-011	7				
MPB2 MID-EBB B DUP	[27-NOV-2009]	HK0924842-012	9				
MP MID-EBB S	[27-NOV-2009]	HK0924842-013	5				
MP MID-EBB S DUP	[27-NOV-2009]	HK0924842-014	8				
MP MID-EBB M	[27-NOV-2009]	HK0924842-015	13				
MP MID-EBB M DUP	[27-NOV-2009]	HK0924842-016	11				
MP MID-EBB B	[27-NOV-2009]	HK0924842-017	13				
MP MID-EBB B DUP	[27-NOV-2009]	HK0924842-018	7				
IMO1 MID-EBB S	[27-NOV-2009]	HK0924842-019	14				
IMO1 MID-EBB S DUP	[27-NOV-2009]	HK0924842-020	10				
IMO1 MID-EBB M	[27-NOV-2009]	HK0924842-021	12				
IMO1 MID-EBB M DUP	[27-NOV-2009]	HK0924842-022	18				
IMO1 MID-EBB B	[27-NOV-2009]	HK0924842-023	13				
IMO1 MID-EBB B DUP	[27-NOV-2009]	HK0924842-024	19				
IMO2 MID-EBB S	[27-NOV-2009]	HK0924842-025	14				
IMO2 MID-EBB S DUP	[27-NOV-2009]	HK0924842-026	12				
IMO2 MID-EBB M	[27-NOV-2009]	HK0924842-027	10				
IMO2 MID-EBB M DUP	[27-NOV-2009]	HK0924842-028	14				
IMO2 MID-EBB B	[27-NOV-2009]	HK0924842-029	12				
IMO2 MID-EBB B DUP	[27-NOV-2009]	HK0924842-030	7				
IMO5 MID-EBB S	[27-NOV-2009]	HK0924842-043	11				
IMO5 MID-EBB S DUP	[27-NOV-2009]	HK0924842-044	9				
IMO5 MID-EBB M	[27-NOV-2009]	HK0924842-045	12				
IMO5 MID-EBB M DUP	[27-NOV-2009]	HK0924842-046	13				
IMO5 MID-EBB B	[27-NOV-2009]	HK0924842-047	10				



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[27-NOV-2009]	HK0924842-048	11			
IMO6 MID-EBB S	[27-NOV-2009]	HK0924842-049	8			
IMO6 MID-EBB S DUP	[27-NOV-2009]	HK0924842-050	12			
IMO6 MID-EBB M	[27-NOV-2009]	HK0924842-051	9			
IMO6 MID-EBB M DUP	[27-NOV-2009]	HK0924842-052	9			
IMO6 MID-EBB B	[27-NOV-2009]	HK0924842-053	7			
IMO6 MID-EBB B DUP	[27-NOV-2009]	HK0924842-054	8			
C2 (NM5) MID-EBB S	[27-NOV-2009]	HK0924842-055	8			
C2 (NM5) MID-EBB S DUP	[27-NOV-2009]	HK0924842-056	10			
C2 (NM5) MID-EBB M	[27-NOV-2009]	HK0924842-057	12			
C2 (NM5) MID-EBB M DUP	[27-NOV-2009]	HK0924842-058	11			
C2 (NM5) MID-EBB B	[27-NOV-2009]	HK0924842-059	8			
C2 (NM5) MID-EBB B DUP	[27-NOV-2009]	HK0924842-060	10			
MPB1 MID-FLOOD S	[27-NOV-2009]	HK0924842-061	14			
MPB1 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-062	13			
MPB1 MID-FLOOD M	[27-NOV-2009]	HK0924842-063	13			
MPB1 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-064	11			
MPB1 MID-FLOOD B	[27-NOV-2009]	HK0924842-065	9			
MPB1 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-066	11			
MPB2 MID-FLOOD S	[27-NOV-2009]	HK0924842-067	8			
MPB2 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-068	7			
MPB2 MID-FLOOD M	[27-NOV-2009]	HK0924842-069	10			
MPB2 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-070	6			
MPB2 MID-FLOOD B	[27-NOV-2009]	HK0924842-071	7			
MPB2 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-072	7			
MP MID-FLOOD S	[27-NOV-2009]	HK0924842-073	6			
MP MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-074	8			
MP MID-FLOOD M	[27-NOV-2009]	HK0924842-075	12			
MP MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-076	8			
MP MID-FLOOD B	[27-NOV-2009]	HK0924842-077	12			
MP MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-078	12			
IMO1 MID-FLOOD S	[27-NOV-2009]	HK0924842-079	10			
IMO1 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-080	10			
IMO1 MID-FLOOD M	[27-NOV-2009]	HK0924842-081	11			
IMO1 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-082	11			



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO1 MID-FLOOD B	[27-NOV-2009]	HK0924842-083	10				
IMO1 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-084	12				
IMO2 MID-FLOOD S	[27-NOV-2009]	HK0924842-085	10				
IMO2 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-086	10				
IMO2 MID-FLOOD M	[27-NOV-2009]	HK0924842-087	14				
IMO2 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-088	10				
IMO2 MID-FLOOD B	[27-NOV-2009]	HK0924842-089	11				
IMO2 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-090	10				
IMO5 MID-FLOOD S	[27-NOV-2009]	HK0924842-103	10				
IMO5 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-104	8				
IMO5 MID-FLOOD M	[27-NOV-2009]	HK0924842-105	9				
IMO5 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-106	10				
IMO5 MID-FLOOD B	[27-NOV-2009]	HK0924842-107	15				
IMO5 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-108	10				
IMO6 MID-FLOOD S	[27-NOV-2009]	HK0924842-109	9				
IMO6 MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-110	8				
IMO6 MID-FLOOD M	[27-NOV-2009]	HK0924842-111	5				
IMO6 MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-112	8				
IMO6 MID-FLOOD B	[27-NOV-2009]	HK0924842-113	7				
IMO6 MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-114	8				
C1 (NM3) MID-FLOOD S	[27-NOV-2009]	HK0924842-115	7				
C1 (NM3) MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-116	8				
C1 (NM3) MID-FLOOD M	[27-NOV-2009]	HK0924842-117	7				
C1 (NM3) MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-118	6				
C1 (NM3) MID-FLOOD B	[27-NOV-2009]	HK0924842-119	7				
C1 (NM3) MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-120	7				
C3 (NM6) MID-FLOOD S	[27-NOV-2009]	HK0924842-121	14				
C3 (NM6) MID-FLOOD S DUP	[27-NOV-2009]	HK0924842-122	8				
C3 (NM6) MID-FLOOD M	[27-NOV-2009]	HK0924842-123	8				
C3 (NM6) MID-FLOOD M DUP	[27-NOV-2009]	HK0924842-124	9				
C3 (NM6) MID-FLOOD B	[27-NOV-2009]	HK0924842-125	7				
C3 (NM6) MID-FLOOD B DUP	[27-NOV-2009]	HK0924842-126	6				



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 and Aggregate Properties (QC Lot: 1178711)								
HK0924842-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
HK0924842-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	7	9	18.8
EA/ED: Physical and Aggregate Properties (QC Lot: 1178712)								
HK0924842-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	12	12	0.0
HK0924842-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	11	13	18.6
EA/ED: Physical and Aggregate Properties (QC Lot: 1178713)								
HK0924842-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	7	9	# 25.9
HK0924842-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	13	12	8.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1178714)								
HK0924842-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	6	8	18.3
HK0924842-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	10	10	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1178715)								
HK0924842-106	IMO5 MID-FLOOD M DUP	EA025: Suspended Solids (SS)	----	2	mg/L	10	8	# 26.2
HK0924842-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1178716)								
HK0924842-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	14.8

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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1178711)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	105	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1178712)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1178713)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	104	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1178714)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	100	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1178715)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	102	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1178716)												
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.



CERTIFICATE OF ANALYSIS

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Quote number : HK/1426c/2009**

Page : 1 of 5
Work Order : **HK0924843**

Date received : 28-NOV-2009
Date of issue : 03-DEC-2009
No. of samples - *Received* : 102
- *Analysed* : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0924843 supersedes any previous reports with this reference. The completion date of analysis is 02-DEC-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 HK0924843 : **Sample(s) were collected by ALS Technichem (HK) staff on 28 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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Signatory
Fung Lim Chee, Richard

Position
General Manager

Authorised results for:-
Inorganics



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
			EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[28-NOV-2009]	HK0924843-001		8			
MPB1 MID-EBB S DUP	[28-NOV-2009]	HK0924843-002		10			
MPB1 MID-EBB M	[28-NOV-2009]	HK0924843-003		8			
MPB1 MID-EBB M DUP	[28-NOV-2009]	HK0924843-004		8			
MPB1 MID-EBB B	[28-NOV-2009]	HK0924843-005		7			
MPB1 MID-EBB B DUP	[28-NOV-2009]	HK0924843-006		9			
MPB2 MID-EBB S	[28-NOV-2009]	HK0924843-007		8			
MPB2 MID-EBB S DUP	[28-NOV-2009]	HK0924843-008		8			
MPB2 MID-EBB M	[28-NOV-2009]	HK0924843-009		8			
MPB2 MID-EBB M DUP	[28-NOV-2009]	HK0924843-010		9			
MPB2 MID-EBB B	[28-NOV-2009]	HK0924843-011		7			
MPB2 MID-EBB B DUP	[28-NOV-2009]	HK0924843-012		9			
MP MID-EBB S	[28-NOV-2009]	HK0924843-013		13			
MP MID-EBB S DUP	[28-NOV-2009]	HK0924843-014		10			
MP MID-EBB M	[28-NOV-2009]	HK0924843-015		7			
MP MID-EBB M DUP	[28-NOV-2009]	HK0924843-016		9			
MP MID-EBB B	[28-NOV-2009]	HK0924843-017		8			
MP MID-EBB B DUP	[28-NOV-2009]	HK0924843-018		8			
IMO1 MID-EBB S	[28-NOV-2009]	HK0924843-019		9			
IMO1 MID-EBB S DUP	[28-NOV-2009]	HK0924843-020		6			
IMO1 MID-EBB M	[28-NOV-2009]	HK0924843-021		9			
IMO1 MID-EBB M DUP	[28-NOV-2009]	HK0924843-022		8			
IMO1 MID-EBB B	[28-NOV-2009]	HK0924843-023		9			
IMO1 MID-EBB B DUP	[28-NOV-2009]	HK0924843-024		9			
IMO2 MID-EBB S	[28-NOV-2009]	HK0924843-025		8			
IMO2 MID-EBB S DUP	[28-NOV-2009]	HK0924843-026		8			
IMO2 MID-EBB M	[28-NOV-2009]	HK0924843-027		9			
IMO2 MID-EBB M DUP	[28-NOV-2009]	HK0924843-028		8			
IMO2 MID-EBB B	[28-NOV-2009]	HK0924843-029		12			
IMO2 MID-EBB B DUP	[28-NOV-2009]	HK0924843-030		10			
IMO5 MID-EBB S	[28-NOV-2009]	HK0924843-043		12			
IMO5 MID-EBB S DUP	[28-NOV-2009]	HK0924843-044		14			
IMO5 MID-EBB M	[28-NOV-2009]	HK0924843-045		10			
IMO5 MID-EBB M DUP	[28-NOV-2009]	HK0924843-046		12			
IMO5 MID-EBB B	[28-NOV-2009]	HK0924843-047		11			



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO5 MID-EBB B DUP	[28-NOV-2009]	HK0924843-048	12				
IMO6 MID-EBB S	[28-NOV-2009]	HK0924843-049	11				
IMO6 MID-EBB S DUP	[28-NOV-2009]	HK0924843-050	9				
IMO6 MID-EBB M	[28-NOV-2009]	HK0924843-051	10				
IMO6 MID-EBB M DUP	[28-NOV-2009]	HK0924843-052	11				
IMO6 MID-EBB B	[28-NOV-2009]	HK0924843-053	10				
IMO6 MID-EBB B DUP	[28-NOV-2009]	HK0924843-054	9				
C2 (NM5) MID-EBB S	[28-NOV-2009]	HK0924843-055	10				
C2 (NM5) MID-EBB S DUP	[28-NOV-2009]	HK0924843-056	9				
C2 (NM5) MID-EBB M	[28-NOV-2009]	HK0924843-057	11				
C2 (NM5) MID-EBB M DUP	[28-NOV-2009]	HK0924843-058	8				
C2 (NM5) MID-EBB B	[28-NOV-2009]	HK0924843-059	8				
C2 (NM5) MID-EBB B DUP	[28-NOV-2009]	HK0924843-060	10				
MPB1 MID-FLOOD S	[28-NOV-2009]	HK0924843-061	8				
MPB1 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-062	10				
MPB1 MID-FLOOD M	[28-NOV-2009]	HK0924843-063	8				
MPB1 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-064	9				
MPB1 MID-FLOOD B	[28-NOV-2009]	HK0924843-065	8				
MPB1 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-066	10				
MPB2 MID-FLOOD S	[28-NOV-2009]	HK0924843-067	10				
MPB2 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-068	8				
MPB2 MID-FLOOD M	[28-NOV-2009]	HK0924843-069	11				
MPB2 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-070	9				
MPB2 MID-FLOOD B	[28-NOV-2009]	HK0924843-071	7				
MPB2 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-072	6				
MP MID-FLOOD S	[28-NOV-2009]	HK0924843-073	10				
MP MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-074	10				
MP MID-FLOOD M	[28-NOV-2009]	HK0924843-075	8				
MP MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-076	6				
MP MID-FLOOD B	[28-NOV-2009]	HK0924843-077	8				
MP MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-078	9				
IMO1 MID-FLOOD S	[28-NOV-2009]	HK0924843-079	9				
IMO1 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-080	8				
IMO1 MID-FLOOD M	[28-NOV-2009]	HK0924843-081	11				
IMO1 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-082	10				



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO1 MID-FLOOD B	[28-NOV-2009]	HK0924843-083	9				
IMO1 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-084	7				
IMO2 MID-FLOOD S	[28-NOV-2009]	HK0924843-085	8				
IMO2 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-086	8				
IMO2 MID-FLOOD M	[28-NOV-2009]	HK0924843-087	10				
IMO2 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-088	10				
IMO2 MID-FLOOD B	[28-NOV-2009]	HK0924843-089	8				
IMO2 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-090	9				
IMO5 MID-FLOOD S	[28-NOV-2009]	HK0924843-103	8				
IMO5 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-104	8				
IMO5 MID-FLOOD M	[28-NOV-2009]	HK0924843-105	10				
IMO5 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-106	10				
IMO5 MID-FLOOD B	[28-NOV-2009]	HK0924843-107	8				
IMO5 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-108	10				
IMO6 MID-FLOOD S	[28-NOV-2009]	HK0924843-109	15				
IMO6 MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-110	6				
IMO6 MID-FLOOD M	[28-NOV-2009]	HK0924843-111	7				
IMO6 MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-112	10				
IMO6 MID-FLOOD B	[28-NOV-2009]	HK0924843-113	7				
IMO6 MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-114	8				
C1 (NM3) MID-FLOOD S	[28-NOV-2009]	HK0924843-115	7				
C1 (NM3) MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-116	6				
C1 (NM3) MID-FLOOD M	[28-NOV-2009]	HK0924843-117	8				
C1 (NM3) MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-118	7				
C1 (NM3) MID-FLOOD B	[28-NOV-2009]	HK0924843-119	8				
C1 (NM3) MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-120	10				
C3 (NM6) MID-FLOOD S	[28-NOV-2009]	HK0924843-121	11				
C3 (NM6) MID-FLOOD S DUP	[28-NOV-2009]	HK0924843-122	14				
C3 (NM6) MID-FLOOD M	[28-NOV-2009]	HK0924843-123	8				
C3 (NM6) MID-FLOOD M DUP	[28-NOV-2009]	HK0924843-124	8				
C3 (NM6) MID-FLOOD B	[28-NOV-2009]	HK0924843-125	8				
C3 (NM6) MID-FLOOD B DUP	[28-NOV-2009]	HK0924843-126	6				



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 and Aggregate Properties (QC Lot: 1180315)								
HK0924843-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	8	9	0.0
HK0924843-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180316)								
HK0924843-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
HK0924843-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180317)								
HK0924843-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	10	9	13.5
HK0924843-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180318)								
HK0924843-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	10	9	11.5
HK0924843-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	12.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1180320)								
HK0924843-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	10	10	0.0
HK0924843-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180321)								
HK0924843-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1180315)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180316)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180317)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180318)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	114	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180320)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180321)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 29-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 04-DEC-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0925051 supersedes any previous reports with this reference. The completion date of analysis is 03-DEC-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 HK0925051 : **Sample(s) were collected by ALS Technichem (HK) staff on 29 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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Analytical Results

Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
MPB1 MID-EBB S	[29-NOV-2009]	HK0925051-001	10			
MPB1 MID-EBB S DUP	[29-NOV-2009]	HK0925051-002	10			
MPB1 MID-EBB M	[29-NOV-2009]	HK0925051-003	9			
MPB1 MID-EBB M DUP	[29-NOV-2009]	HK0925051-004	9			
MPB1 MID-EBB B	[29-NOV-2009]	HK0925051-005	12			
MPB1 MID-EBB B DUP	[29-NOV-2009]	HK0925051-006	12			
MPB2 MID-EBB S	[29-NOV-2009]	HK0925051-007	9			
MPB2 MID-EBB S DUP	[29-NOV-2009]	HK0925051-008	8			
MPB2 MID-EBB M	[29-NOV-2009]	HK0925051-009	7			
MPB2 MID-EBB M DUP	[29-NOV-2009]	HK0925051-010	10			
MPB2 MID-EBB B	[29-NOV-2009]	HK0925051-011	9			
MPB2 MID-EBB B DUP	[29-NOV-2009]	HK0925051-012	10			
MP MID-EBB S	[29-NOV-2009]	HK0925051-013	8			
MP MID-EBB S DUP	[29-NOV-2009]	HK0925051-014	9			
MP MID-EBB M	[29-NOV-2009]	HK0925051-015	9			
MP MID-EBB M DUP	[29-NOV-2009]	HK0925051-016	8			
MP MID-EBB B	[29-NOV-2009]	HK0925051-017	7			
MP MID-EBB B DUP	[29-NOV-2009]	HK0925051-018	9			
IMO1 MID-EBB S	[29-NOV-2009]	HK0925051-019	8			
IMO1 MID-EBB S DUP	[29-NOV-2009]	HK0925051-020	9			
IMO1 MID-EBB M	[29-NOV-2009]	HK0925051-021	8			
IMO1 MID-EBB M DUP	[29-NOV-2009]	HK0925051-022	8			
IMO1 MID-EBB B	[29-NOV-2009]	HK0925051-023	8			
IMO1 MID-EBB B DUP	[29-NOV-2009]	HK0925051-024	9			
IMO2 MID-EBB S	[29-NOV-2009]	HK0925051-025	8			
IMO2 MID-EBB S DUP	[29-NOV-2009]	HK0925051-026	8			
IMO2 MID-EBB M	[29-NOV-2009]	HK0925051-027	6			
IMO2 MID-EBB M DUP	[29-NOV-2009]	HK0925051-028	6			
IMO2 MID-EBB B	[29-NOV-2009]	HK0925051-029	7			
IMO2 MID-EBB B DUP	[29-NOV-2009]	HK0925051-030	8			
IMO5 MID-EBB S	[29-NOV-2009]	HK0925051-043	11			
IMO5 MID-EBB S DUP	[29-NOV-2009]	HK0925051-044	11			
IMO5 MID-EBB M	[29-NOV-2009]	HK0925051-045	11			
IMO5 MID-EBB M DUP	[29-NOV-2009]	HK0925051-046	10			
IMO5 MID-EBB B	[29-NOV-2009]	HK0925051-047	9			



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[29-NOV-2009]	HK0925051-048	7			
IMO6 MID-EBB S	[29-NOV-2009]	HK0925051-049	14			
IMO6 MID-EBB S DUP	[29-NOV-2009]	HK0925051-050	15			
IMO6 MID-EBB M	[29-NOV-2009]	HK0925051-051	13			
IMO6 MID-EBB M DUP	[29-NOV-2009]	HK0925051-052	15			
IMO6 MID-EBB B	[29-NOV-2009]	HK0925051-053	11			
IMO6 MID-EBB B DUP	[29-NOV-2009]	HK0925051-054	11			
C2 (NM5) MID-EBB S	[29-NOV-2009]	HK0925051-055	4			
C2 (NM5) MID-EBB S DUP	[29-NOV-2009]	HK0925051-056	6			
C2 (NM5) MID-EBB M	[29-NOV-2009]	HK0925051-057	6			
C2 (NM5) MID-EBB M DUP	[29-NOV-2009]	HK0925051-058	7			
C2 (NM5) MID-EBB B	[29-NOV-2009]	HK0925051-059	7			
C2 (NM5) MID-EBB B DUP	[29-NOV-2009]	HK0925051-060	7			
MPB1 MID-FLOOD S	[29-NOV-2009]	HK0925051-061	12			
MPB1 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-062	10			
MPB1 MID-FLOOD M	[29-NOV-2009]	HK0925051-063	8			
MPB1 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-064	10			
MPB1 MID-FLOOD B	[29-NOV-2009]	HK0925051-065	8			
MPB1 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-066	8			
MPB2 MID-FLOOD S	[29-NOV-2009]	HK0925051-067	10			
MPB2 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-068	8			
MPB2 MID-FLOOD M	[29-NOV-2009]	HK0925051-069	8			
MPB2 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-070	11			
MPB2 MID-FLOOD B	[29-NOV-2009]	HK0925051-071	8			
MPB2 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-072	7			
MP MID-FLOOD S	[29-NOV-2009]	HK0925051-073	9			
MP MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-074	10			
MP MID-FLOOD M	[29-NOV-2009]	HK0925051-075	11			
MP MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-076	10			
MP MID-FLOOD B	[29-NOV-2009]	HK0925051-077	8			
MP MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-078	9			
IMO1 MID-FLOOD S	[29-NOV-2009]	HK0925051-079	5			
IMO1 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-080	8			
IMO1 MID-FLOOD M	[29-NOV-2009]	HK0925051-081	10			
IMO1 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-082	6			



Sub-Matrix: SEAWATER

			Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties				
IMO1 MID-FLOOD B	[29-NOV-2009]	HK0925051-083	9				
IMO1 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-084	13				
IMO2 MID-FLOOD S	[29-NOV-2009]	HK0925051-085	6				
IMO2 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-086	5				
IMO2 MID-FLOOD M	[29-NOV-2009]	HK0925051-087	7				
IMO2 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-088	6				
IMO2 MID-FLOOD B	[29-NOV-2009]	HK0925051-089	9				
IMO2 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-090	7				
IMO5 MID-FLOOD S	[29-NOV-2009]	HK0925051-103	9				
IMO5 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-104	9				
IMO5 MID-FLOOD M	[29-NOV-2009]	HK0925051-105	8				
IMO5 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-106	8				
IMO5 MID-FLOOD B	[29-NOV-2009]	HK0925051-107	6				
IMO5 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-108	6				
IMO6 MID-FLOOD S	[29-NOV-2009]	HK0925051-109	14				
IMO6 MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-110	12				
IMO6 MID-FLOOD M	[29-NOV-2009]	HK0925051-111	14				
IMO6 MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-112	14				
IMO6 MID-FLOOD B	[29-NOV-2009]	HK0925051-113	12				
IMO6 MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-114	10				
C1 (NM3) MID-FLOOD S	[29-NOV-2009]	HK0925051-115	6				
C1 (NM3) MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-116	6				
C1 (NM3) MID-FLOOD M	[29-NOV-2009]	HK0925051-117	6				
C1 (NM3) MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-118	7				
C1 (NM3) MID-FLOOD B	[29-NOV-2009]	HK0925051-119	8				
C1 (NM3) MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-120	6				
C3 (NM6) MID-FLOOD S	[29-NOV-2009]	HK0925051-121	10				
C3 (NM6) MID-FLOOD S DUP	[29-NOV-2009]	HK0925051-122	8				
C3 (NM6) MID-FLOOD M	[29-NOV-2009]	HK0925051-123	6				
C3 (NM6) MID-FLOOD M DUP	[29-NOV-2009]	HK0925051-124	6				
C3 (NM6) MID-FLOOD B	[29-NOV-2009]	HK0925051-125	7				
C3 (NM6) MID-FLOOD B DUP	[29-NOV-2009]	HK0925051-126	6				



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 and Aggregate Properties (QC Lot: 1180323)								
HK0925051-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	10	9	12.1
HK0925051-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	9	10	13.2
EA/ED: Physical and Aggregate Properties (QC Lot: 1180324)								
HK0925051-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	8	6	21.9
HK0925051-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	11	10	10.7
EA/ED: Physical and Aggregate Properties (QC Lot: 1180325)								
HK0925051-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
HK0925051-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	8	8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180326)								
HK0925051-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	9	9	0.0
HK0925051-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	9	8	19.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1180327)								
HK0925051-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	8	10	21.5
HK0925051-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	6	6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1180328)								
HK0925051-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	7	8	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)		
						LCS	DCS	Low	High	Value	Control Limit	
EA/ED: Physical and Aggregate Properties (QCLot: 1180323)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	105	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180324)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	107	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180325)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	110	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180326)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	99.5	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180327)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	91.0	----	85	115	----	----	
EA/ED: Physical and Aggregate Properties (QCLot: 1180328)												
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	108	----	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.



CERTIFICATE OF ANALYSIS

<i>Client</i>	: ERM HONG KONG	<i>Laboratory</i>	: ALS Technichem HK Pty Ltd	<i>Page</i>	: 1 of 5
<i>Contact</i>	: MS KAREN LUI	<i>Contact</i>	: Chan Kwok Fai, Godfrey	<i>Work Order</i>	: HK0925052
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<i>Project</i>	: TUEN MUN	<i>Quote number</i>	: HK/1426c/2009**	<i>Date received</i>	: 30-NOV-2009
<i>Order number</i>	: ---			<i>Date of issue</i>	: 04-DEC-2009
<i>C-O-C number</i>	: ---			<i>No. of samples</i>	- <i>Received</i> : 102
<i>Site</i>	: ---				- <i>Analysed</i> : 102

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0925052 supersedes any previous reports with this reference. The completion date of analysis is 03-DEC-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 HK0925052 : **Sample(s) were collected by ALS Technichem (HK) staff on 30 November, 2009.**
Water sample(s) analysed and reported on an as received basis.

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<i>Signatory</i>	<i>Position</i>	<i>Authorised results for:-</i>
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ALS Laboratory Group

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A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: SEAWATER

Client sample ID	Client sampling date / time	Laboratory sample ID	Compound	EA025: Suspended Solids (SS)			
			LOR Unit	2 mg/L			
			EA/ED: Physical and Aggregate Properties				
MPB1 MID-EBB S	[30-NOV-2009]	HK0925052-001		12			
MPB1 MID-EBB S DUP	[30-NOV-2009]	HK0925052-002		13			
MPB1 MID-EBB M	[30-NOV-2009]	HK0925052-003		11			
MPB1 MID-EBB M DUP	[30-NOV-2009]	HK0925052-004		10			
MPB1 MID-EBB B	[30-NOV-2009]	HK0925052-005		9			
MPB1 MID-EBB B DUP	[30-NOV-2009]	HK0925052-006		10			
MPB2 MID-EBB S	[30-NOV-2009]	HK0925052-007		13			
MPB2 MID-EBB S DUP	[30-NOV-2009]	HK0925052-008		13			
MPB2 MID-EBB M	[30-NOV-2009]	HK0925052-009		12			
MPB2 MID-EBB M DUP	[30-NOV-2009]	HK0925052-010		15			
MPB2 MID-EBB B	[30-NOV-2009]	HK0925052-011		11			
MPB2 MID-EBB B DUP	[30-NOV-2009]	HK0925052-012		13			
MP MID-EBB S	[30-NOV-2009]	HK0925052-013		11			
MP MID-EBB S DUP	[30-NOV-2009]	HK0925052-014		11			
MP MID-EBB M	[30-NOV-2009]	HK0925052-015		14			
MP MID-EBB M DUP	[30-NOV-2009]	HK0925052-016		14			
MP MID-EBB B	[30-NOV-2009]	HK0925052-017		12			
MP MID-EBB B DUP	[30-NOV-2009]	HK0925052-018		14			
IMO1 MID-EBB S	[30-NOV-2009]	HK0925052-019		12			
IMO1 MID-EBB S DUP	[30-NOV-2009]	HK0925052-020		10			
IMO1 MID-EBB M	[30-NOV-2009]	HK0925052-021		12			
IMO1 MID-EBB M DUP	[30-NOV-2009]	HK0925052-022		12			
IMO1 MID-EBB B	[30-NOV-2009]	HK0925052-023		19			
IMO1 MID-EBB B DUP	[30-NOV-2009]	HK0925052-024		17			
IMO2 MID-EBB S	[30-NOV-2009]	HK0925052-025		14			
IMO2 MID-EBB S DUP	[30-NOV-2009]	HK0925052-026		11			
IMO2 MID-EBB M	[30-NOV-2009]	HK0925052-027		13			
IMO2 MID-EBB M DUP	[30-NOV-2009]	HK0925052-028		10			
IMO2 MID-EBB B	[30-NOV-2009]	HK0925052-029		9			
IMO2 MID-EBB B DUP	[30-NOV-2009]	HK0925052-030		8			
IMO5 MID-EBB S	[30-NOV-2009]	HK0925052-043		12			
IMO5 MID-EBB S DUP	[30-NOV-2009]	HK0925052-044		13			
IMO5 MID-EBB M	[30-NOV-2009]	HK0925052-045		12			
IMO5 MID-EBB M DUP	[30-NOV-2009]	HK0925052-046		11			
IMO5 MID-EBB B	[30-NOV-2009]	HK0925052-047		12			



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO5 MID-EBB B DUP	[30-NOV-2009]	HK0925052-048	15			
IMO6 MID-EBB S	[30-NOV-2009]	HK0925052-049	12			
IMO6 MID-EBB S DUP	[30-NOV-2009]	HK0925052-050	13			
IMO6 MID-EBB M	[30-NOV-2009]	HK0925052-051	11			
IMO6 MID-EBB M DUP	[30-NOV-2009]	HK0925052-052	11			
IMO6 MID-EBB B	[30-NOV-2009]	HK0925052-053	14			
IMO6 MID-EBB B DUP	[30-NOV-2009]	HK0925052-054	13			
C2 (NM5) MID-EBB S	[30-NOV-2009]	HK0925052-055	7			
C2 (NM5) MID-EBB S DUP	[30-NOV-2009]	HK0925052-056	7			
C2 (NM5) MID-EBB M	[30-NOV-2009]	HK0925052-057	8			
C2 (NM5) MID-EBB M DUP	[30-NOV-2009]	HK0925052-058	10			
C2 (NM5) MID-EBB B	[30-NOV-2009]	HK0925052-059	6			
C2 (NM5) MID-EBB B DUP	[30-NOV-2009]	HK0925052-060	8			
MPB1 MID-FLOOD S	[30-NOV-2009]	HK0925052-061	11			
MPB1 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-062	14			
MPB1 MID-FLOOD M	[30-NOV-2009]	HK0925052-063	13			
MPB1 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-064	12			
MPB1 MID-FLOOD B	[30-NOV-2009]	HK0925052-065	12			
MPB1 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-066	12			
MPB2 MID-FLOOD S	[30-NOV-2009]	HK0925052-067	14			
MPB2 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-068	11			
MPB2 MID-FLOOD M	[30-NOV-2009]	HK0925052-069	18			
MPB2 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-070	16			
MPB2 MID-FLOOD B	[30-NOV-2009]	HK0925052-071	15			
MPB2 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-072	12			
MP MID-FLOOD S	[30-NOV-2009]	HK0925052-073	13			
MP MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-074	12			
MP MID-FLOOD M	[30-NOV-2009]	HK0925052-075	11			
MP MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-076	10			
MP MID-FLOOD B	[30-NOV-2009]	HK0925052-077	13			
MP MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-078	14			
IMO1 MID-FLOOD S	[30-NOV-2009]	HK0925052-079	12			
IMO1 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-080	15			
IMO1 MID-FLOOD M	[30-NOV-2009]	HK0925052-081	12			
IMO1 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-082	12			



Sub-Matrix: SEAWATER

Compound

EA025: Suspended Solids (SS)

LOR Unit

2 mg/L

Client sample ID	Client sampling date / time	Laboratory sample ID	EA/ED: Physical and Aggregate Properties			
IMO1 MID-FLOOD B	[30-NOV-2009]	HK0925052-083	12			
IMO1 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-084	12			
IMO2 MID-FLOOD S	[30-NOV-2009]	HK0925052-085	11			
IMO2 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-086	10			
IMO2 MID-FLOOD M	[30-NOV-2009]	HK0925052-087	10			
IMO2 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-088	9			
IMO2 MID-FLOOD B	[30-NOV-2009]	HK0925052-089	10			
IMO2 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-090	10			
IMO5 MID-FLOOD S	[30-NOV-2009]	HK0925052-103	10			
IMO5 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-104	11			
IMO5 MID-FLOOD M	[30-NOV-2009]	HK0925052-105	13			
IMO5 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-106	14			
IMO5 MID-FLOOD B	[30-NOV-2009]	HK0925052-107	10			
IMO5 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-108	13			
IMO6 MID-FLOOD S	[30-NOV-2009]	HK0925052-109	13			
IMO6 MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-110	12			
IMO6 MID-FLOOD M	[30-NOV-2009]	HK0925052-111	14			
IMO6 MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-112	13			
IMO6 MID-FLOOD B	[30-NOV-2009]	HK0925052-113	13			
IMO6 MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-114	11			
C1 (NM3) MID-FLOOD S	[30-NOV-2009]	HK0925052-115	7			
C1 (NM3) MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-116	9			
C1 (NM3) MID-FLOOD M	[30-NOV-2009]	HK0925052-117	10			
C1 (NM3) MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-118	8			
C1 (NM3) MID-FLOOD B	[30-NOV-2009]	HK0925052-119	10			
C1 (NM3) MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-120	9			
C3 (NM6) MID-FLOOD S	[30-NOV-2009]	HK0925052-121	12			
C3 (NM6) MID-FLOOD S DUP	[30-NOV-2009]	HK0925052-122	11			
C3 (NM6) MID-FLOOD M	[30-NOV-2009]	HK0925052-123	12			
C3 (NM6) MID-FLOOD M DUP	[30-NOV-2009]	HK0925052-124	11			
C3 (NM6) MID-FLOOD B	[30-NOV-2009]	HK0925052-125	10			
C3 (NM6) MID-FLOOD B DUP	[30-NOV-2009]	HK0925052-126	10			



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 and Aggregate Properties (QC Lot: 1184137)								
HK0925052-001	MPB1 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	10	14.5
HK0925052-011	MPB2 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	11	11	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1184138)								
HK0925052-021	IMO1 MID-EBB M	EA025: Suspended Solids (SS)	----	2	mg/L	12	12	0.0
HK0925052-043	IMO5 MID-EBB S	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	12.3
EA/ED: Physical and Aggregate Properties (QC Lot: 1184139)								
HK0925052-053	IMO6 MID-EBB B	EA025: Suspended Solids (SS)	----	2	mg/L	14	12	14.1
HK0925052-063	MPB1 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	13	15	12.4
EA/ED: Physical and Aggregate Properties (QC Lot: 1184140)								
HK0925052-073	MP MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	13	11	16.0
HK0925052-083	IMO1 MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	12	13	12.5
EA/ED: Physical and Aggregate Properties (QC Lot: 1184141)								
HK0925052-105	IMO5 MID-FLOOD M	EA025: Suspended Solids (SS)	----	2	mg/L	13	11	15.1
HK0925052-115	C1 (NM3) MID-FLOOD S	EA025: Suspended Solids (SS)	----	2	mg/L	7	6	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 1184142)								
HK0925052-125	C3 (NM6) MID-FLOOD B	EA025: Suspended Solids (SS)	----	2	mg/L	10	11	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPDs (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QCLot: 1184137)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	92.0	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1184138)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	93.5	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1184139)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	106	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1184140)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	112	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1184141)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	109	----	85	115	----	----
EA/ED: Physical and Aggregate Properties (QCLot: 1184142)											
EA025: Suspended Solids (SS)	----	2	mg/L	<2	20 mg/L	109	----	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 G

Impact Water Quality Monitoring Results

Sampling Date	11/13/2009
Weather & Ambient Temperature	Cloudy, 27C

Station	C2 (NMS)								
Time (hh:mm)	12:08-12:10								
Water Depth (m)	19.2								
Monitoring Depth (m)	1.0		9.6		18.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.7	25.7	25.8	25.9	25.8	25.9	25.81	-	
Salinity (ppt)	28.5	29.8	31.8	31.6	31.8	31.8	30.88	-	
pH	8.0	8.1	8.0	8.1	8.0	8.1	8.05	-	
D.O. Saturation (%)	77.6	77.1	77.5	74.8	80.8	75.3	77.18	-	
D.O. (mg/L)	5.4	5.3	5.3	5.1	5.5	5.1	5.28	5.31	
Turbidity (NTU)	9.0	8.8	8.9	8.6	8.7	8.5	8.75	-	
SS (mg/L)	12.0	12.0	9.0	11.0	9.0	9.0	10.33	-	
Remarks	Dredging works was observed.								

Station	IMO1							Co-ordinates	
Time (hh:mm)	11:17-11:18							Northing	Easting
Water Depth (m)	16.2							22.21.912	113.55.457
Monitoring Depth (m)	1.0		8.1		15.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.6	25.5	26.4	26.4	26.2	25.9	26.00	-	
Salinity (ppt)	30.6	30.4	32.1	32.0	32.2	32.3	31.61	-	
pH	8.0	8.1	8.1	8.1	8.1	8.1	8.10	-	
D.O. Saturation (%)	84.8	82.2	78.8	80.6	77.4	82.3	81.02	-	
D.O. (mg/L)	6.2	6.0	5.6	5.7	5.5	5.89	5.82	5.71	
Turbidity (NTU)	15.8	15.0	12.6	13.6	9.6	10.5	12.85	-	
SS (mg/L)	19.0	19.0	17.0	18.0	20.0	24.0	19.50	-	
Remarks	Dredging works was observed.								

Station	IMO2							Co-ordinates	
Time (hh:mm)	11:26-11:28							Northing	Easting
Water Depth (m)	20.8							22.21.795	113.55.133
Monitoring Depth (m)	1.0		10.4		19.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.7	25.6	26.0	25.8	25.8	25.9	25.77	-	
Salinity (ppt)	30.3	30.1	31.9	31.9	28.3	32.1	30.78	-	
pH	8.1	8.0	8.1	8.1	8.1	8.1	8.09	-	
D.O. Saturation (%)	81.6	84.6	75.4	75.9	74.6	75.0	77.85	-	
D.O. (mg/L)	5.6	5.8	5.1	5.2	5.2	5.09	5.33	5.14	
Turbidity (NTU)	13.5	13.6	9.7	9.2	8.4	8.5	10.48	-	
SS (mg/L)	16.0	18.0	11.0	9.0	13.0	12.0	13.17	-	
Remarks	Dredging works was observed.								

Station	IMO3							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks	No dredger relating to this station in operation								

Mid-Ebb

Station	IMO4						Co-ordinates		
Time (hh:mm)							Northing	Easting	
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks	No dredger relating to this station in operation								

Station	MPB1								
Time (hh:mm)	12:32-12:33								
Water Depth (m)	7.4								
Monitoring Depth (m)	1.0		3.7		6.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.6	25.6	25.7	25.7	25.6	25.7	25.64	-	
Salinity (ppt)	30.0	29.4	31.0	30.7	30.9	31.3	30.53	-	
pH	8.0	8.0	8.0	8.1	8.0	8.0	8.02	-	
D.O. Saturation (%)	80.4	78.8	77.2	79.0	78.8	81.2	79.23	-	
D.O. (mg/L)	5.6	5.5	5.4	5.4	5.4	5.7	5.49	5.54	
Turbidity (NTU)	7.4	7.6	7.4	7.4	7.6	7.6	7.50	-	
SS (mg/L)	8.0	7.0	9.0	9.0	8.0	9.0	8.33	-	
Remarks	Dredging works was observed.								

Station	MPB2								
Time (hh:mm)	12:39-12:40								
Water Depth (m)	8.8								
Monitoring Depth (m)	1.0		4.4		7.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.6	25.6	25.7	25.6	25.6	25.7	25.62	-	
Salinity (ppt)	31.1	29.6	31.0	31.0	30.9	31.0	30.78	-	
pH	8.1	8.0	8.1	8.0	8.0	8.1	8.04	-	
D.O. Saturation (%)	77.9	77.2	77.1	77.4	77.2	76.6	77.23	-	
D.O. (mg/L)	5.3	5.3	5.3	5.3	5.3	5.2	5.30	5.27	
Turbidity (NTU)	10.3	10.3	11.7	11.1	11.1	11.6	11.02	-	
SS (mg/L)	12.0	12.0	12.0	14.0	19.0	19.0	14.67	-	
Remarks	Dredging works was observed.								

Station	MP								
Time (hh:mm)	12:25-12:26								
Water Depth (m)	5.2								
Monitoring Depth (m)	1.0		2.6		4.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.6	25.6	-	-	25.6	25.6	25.57	-	
Salinity (ppt)	30.2	30.4	-	-	30.4	30.6	30.39	-	
pH	8.0	8.0	-	-	8.0	8.0	8.01	-	
D.O. Saturation (%)	76.1	76.2	-	-	75.4	76.7	76.10	-	
D.O. (mg/L)	5.3	5.3	-	-	5.2	5.3	5.24	5.23	
Turbidity (NTU)	14.4	14.3	-	-	14.6	15.3	14.65	-	
SS (mg/L)	13.0	12.0	-	-	13.0	13.0	12.75	-	
Remarks	Dredging works was observed.								

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	5.3	5.3	N	N	N	N	-	-	-	-	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.3	5.3	N	N	N	N	-	-	-	-	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	11.4	11.4	N	N	N	N	-	-	-	-	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	13.4	13.4	N	N	N	N	-	-	-	-	N	N	N	N	N	N

Sampling Date	11/13/2009
Weather & Ambient Temperature	Fine, 26C

Mid-Flood

Station	C1 (NM3)								
Time (hh:mm)	17:03-17:04								
Water Depth (m)	16.0								
Monitoring Depth (m)	1.0		8.0		15.0				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.2	25.2	25.3	25.3	25.4	25.3	25.28	-	
Salinity (ppt)	31.6	32.0	32.6	32.7	32.8	32.8	32.41	-	
pH	8.2	8.1	8.1	8.1	8.1	8.1	8.12	-	
D.O. Saturation (%)	65.0	63.8	64.6	62.3	65.8	62.9	64.07	-	
D.O. (mg/L)	4.5	4.4	4.4	4.3	4.5	4.3	4.38	4.39	
Turbidity (NTU)	9.6	9.1	15.2	15.5	15.2	15.6	13.37	-	
SS (mg/L)	5.0	5.0	5.0	5.0	26.0	24.0	11.67	-	
Remarks	Dredging works was observed.								

Station	C3 (NM6)								
Time (hh:mm)	15:26-15:27								
Water Depth (m)	6.4								
Monitoring Depth (m)	1.0		3.2		5.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.2	25.2	25.2	25.2	25.2	25.2	25.22	-	
Salinity (ppt)	30.0	29.8	30.1	30.0	30.1	30.1	30.00	-	
pH	8.1	8.1	8.1	8.1	8.1	8.0	8.06	-	
D.O. Saturation (%)	79.1	79.5	79.6	79.7	78.3	80.0	79.37	-	
D.O. (mg/L)	5.7	5.7	5.7	5.7	5.6	5.8	5.72	5.70	
Turbidity (NTU)	13.6	14.5	14.4	14.9	15.5	15.4	14.72	-	
SS (mg/L)	14.0	15.0	15.0	16.0	22.0	23.0	17.50	-	
Remarks	Dredging works was observed.								

Station	IMO1							Co-ordinates	
Time (hh:mm)	16:47-16:49							Northing	Easting
Water Depth (m)	17.0							22.21.798	113.55.565
Monitoring Depth (m)	1.0		8.5		16.0				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.4	25.4	25.4	25.4	25.4	25.4	25.38	-	
Salinity (ppt)	32.6	32.6	32.8	32.8	32.9	32.8	32.73	-	
pH	8.2	8.1	8.1	8.2	8.2	8.1	8.14	-	
D.O. Saturation (%)	61.6	61.3	60.6	61.3	62.2	60.5	61.25	-	
D.O. (mg/L)	4.2	4.2	4.1	4.2	4.2	4.1	4.18	4.18	
Turbidity (NTU)	18.8	19.5	28.1	28.5	28.6	28.3	25.30	-	
SS (mg/L)	22.0	24.0	22.0	20.0	27.0	24.0	23.17	-	
Remarks	Dredging works was observed.								

Station	IMO2							Co-ordinates	
Time (hh:mm)	16:23-16:25							Northing	Easting
Water Depth (m)	21.2							22.21.934	113.55.107
Monitoring Depth (m)	1.0		10.6		20.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.3	25.3	25.4	25.4	25.4	25.4	25.36	-	
Salinity (ppt)	32.5	32.4	32.6	32.5	32.9	33.0	32.64	-	
pH	8.2	8.1	8.2	8.1	8.2	8.1	8.13	-	
D.O. Saturation (%)	63.9	63.5	60.8	60.6	64.3	58.9	62.00	-	
D.O. (mg/L)	4.4	4.3	4.2	4.1	4.4	4.0	4.23	4.19	
Turbidity (NTU)	10.1	10.8	17.6	17.1	18.8	18.2	15.43	-	
SS (mg/L)	16.0	12.0	17.0	21.0	13.0	12.0	15.17	-	
Remarks	Dredging works was observed.								

Station	IMO3							Co-ordinates	
Time (hh:mm)	16:42-16:43							Northing	Easting
Water Depth (m)	19.8							22.21.739	113.55.478
Monitoring Depth (m)	1.0		9.9		18.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.3	25.3	25.4	25.4	25.4	25.4	25.35	-	
Salinity (ppt)	32.2	32.1	32.8	32.6	32.1	32.9	32.46	-	
pH	8.1	8.2	8.1	8.2	8.1	8.1	8.13	-	
D.O. Saturation (%)	60.6	62.2	57.4	61.0	58.3	62.9	60.40	-	
D.O. (mg/L)	4.2	4.3	3.9	4.2	4.0	4.3	4.13	4.14	
Turbidity (NTU)	12.7	12.7	17.2	17.1	18.1	18.5	16.05	-	
SS (mg/L)	9.0	9.0	18.0	18.0	20.0	17.0	15.17	-	
Remarks	No dredging works were observed.								

Station	IMO4							Co-ordinates	
Time (hh:mm)	16:31-16:32							Northing	Easting
Water Depth (m)	16.4							22.21.090	113.55.281
Monitoring Depth (m)	1.0		8.2		15.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.4	25.4	25.4	25.4	25.4	25.4	25.40	-	
Salinity (ppt)	32.6	32.5	32.6	32.6	32.6	32.6	32.60	-	
pH	8.1	8.2	8.1	8.2	8.2	8.1	8.14	-	
D.O. Saturation (%)	61.2	61.9	60.6	61.7	62.0	60.9	61.38	-	
D.O. (mg/L)	4.2	4.2	4.1	4.2	4.2	4.2	4.19	4.19	
Turbidity (NTU)	22.1	22.3	27.6	27.2	28.7	28.1	26.00	-	
SS (mg/L)	27.0	27.0	34.0	29.0	30.0	33.0	30.00	-	
Remarks	No dredging works were observed.								

Station	MPB1								
Time (hh:mm)	15:50-15:51								
Water Depth (m)	8.2								
Monitoring Depth (m)	1.0		4.1		7.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.3	25.2	25.3	25.3	25.3	25.3	25.25	-	
Salinity (ppt)	30.0	29.9	30.1	30.1	30.3	30.5	30.14	-	
pH	8.1	8.1	8.1	8.0	8.0	8.1	8.04	-	
D.O. Saturation (%)	68.8	68.4	68.9	68.3	70.6	69.1	69.02	-	
D.O. (mg/L)	4.8	4.8	4.8	4.7	4.9	4.8	4.78	4.84	
Turbidity (NTU)	13.7	13.1	23.2	23.3	26.5	27.1	21.15	-	
SS (mg/L)	13.0	13.0	9.0	8.0	9.0	9.0	10.17	-	
Remarks	Dredging works was observed.								

Station	MPB2								
Time (hh:mm)	15:42-15:43								
Water Depth (m)	8.3								
Monitoring Depth (m)	1.0		4.2		7.3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.2	25.2	25.3	25.2	25.3	25.2	25.22	-	
Salinity (ppt)	29.4	29.5	29.7	29.7	30.5	30.7	29.89	-	
pH	8.0	8.1	8.1	8.0	8.0	8.1	8.04	-	
D.O. Saturation (%)	69.0	69.4	69.6	68.1	68.5	69.5	69.02	-	
D.O. (mg/L)	4.8	4.8	4.8	4.7	4.7	4.8	4.80	4.78	
Turbidity (NTU)	7.0	6.9	6.9	7.2	8.5	7.9	7.40	-	
SS (mg/L)	9.0	10.0	8.0	9.0	10.0	8.0	9.00	-	
Remarks	Dredging works was observed.								

Station	MP								
Time (hh:mm)	15:58-15:59								
Water Depth (m)	5.6								
Monitoring Depth (m)	1.0		2.8		4.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.2	25.2	-	-	25.2	25.2	25.22	-	
Salinity (ppt)	29.7	29.7	-	-	29.8	29.7	29.73	-	
pH	8.1	8.0	-	-	8.1	8.0	8.05	-	
D.O. Saturation (%)	67.6	67.4	-	-	67.5	68.3	67.70	-	
D.O. (mg/L)	4.7	4.7	-	-	4.7	4.8	4.71	4.72	
Turbidity (NTU)	11.2	11.6	-	-	13.9	13.1	12.45	-	
SS (mg/L)	11.0	13.0	-	-	10.0	11.0	11.25	-	
Remarks	Dredging works was observed.								

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	5.0	5.0	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.0	5.0	Y	N	N	N	N	N	Y	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	18.3	18.3	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	19.0	19.0	N	N	N	N	N	N	Y	N	N	N	N	N	N	N

Sampling Date	11/14/09
Weather & Ambient Temperature	Cloudy, 26C

Station	C2 (NM5)								
Time (hh:mm)	11:26-11:28								
Water Depth (m)	19.2								
Monitoring Depth (m)	1.0		9.6		18.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.4	24.3	24.8	24.8	24.8	24.8	24.66	-	
Salinity (ppt)	31.2	31.2	32.4	32.3	32.4	32.3	31.96	-	
pH	8.2	8.1	8.2	8.1	8.1	8.1	8.12	-	
D.O. Saturation (%)	63.5	65.5	63.7	69.8	64.4	74.1	66.83	-	
D.O. (mg/L)	4.7	4.9	4.7	5.1	4.7	5.4	4.90	5.05	
Turbidity (NTU)	6.1	6.0	7.2	7.1	7.7	7.6	6.95	-	
SS (mg/L)	7.0	7.0	12.0	12.0	8.0	9.0	9.17	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	IMO1							Co-ordinates	
Time (hh:mm)	11:10-11:11							Northing	Easting
Water Depth (m)	20.6							22.21.964	113.55.178
Monitoring Depth (m)	1.0		10.3		19.6				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.0	25.0	25.0	25.0	25.2	25.2	25.07	-	
Salinity (ppt)	32.2	32.3	32.3	32.4	33.4	33.5	32.68	-	
pH	8.2	8.2	8.1	8.2	8.1	8.2	8.16	-	
D.O. Saturation (%)	55.6	54.9	53.1	54.8	53.3	55.6	54.55	-	
D.O. (mg/L)	3.8	3.8	3.7	3.8	3.6	3.8	3.74	3.71	
Turbidity (NTU)	13.4	13.4	12.8	12.7	10.1	9.9	12.05	-	
SS (mg/L)	20.0	18.0	20.0	17.0	17.0	16.0	18.00	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	IMO2							Co-ordinates	
Time (hh:mm)	10:55-10:57							Northing	Easting
Water Depth (m)	20.2							22.21.724	113.55.389
Monitoring Depth (m)	1.0		10.1		19.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.4	24.4	24.9	24.9	25.2	25.2	24.84	-	
Salinity (ppt)	31.7	31.8	33.0	32.8	33.4	33.5	32.67	-	
pH	8.2	8.2	8.2	8.2	8.1	8.2	8.17	-	
D.O. Saturation (%)	61.8	64.3	60.5	65.6	72.2	62.5	64.48	-	
D.O. (mg/L)	4.7	4.9	4.5	4.9	5.3	4.7	4.84	4.98	
Turbidity (NTU)	5.6	5.8	6.4	6.2	6.1	6.9	6.17	-	
SS (mg/L)	10.0	8.0	10.0	8.0	9.0	8.0	8.83	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	IMO3							Co-ordinates	
Time (hh:mm)	11:03-11:04							Northing	Easting
Water Depth (m)	17.4							22.22.061	113.55.274
Monitoring Depth (m)	1.0		8.7		16.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	25.4	25.6	25.3	25.4	25.3	25.4	25.39	-	
Salinity (ppt)	32.8	32.6	32.9	33.1	33.1	33.2	32.96	-	
pH	8.2	8.1	8.1	8.2	8.1	8.2	8.15	-	
D.O. Saturation (%)	61.7	64.5	62.1	62.2	62.7	63.2	62.73	-	
D.O. (mg/L)	4.2	4.4	4.2	4.2	4.3	4.3	4.27	4.29	
Turbidity (NTU)	8.4	8.1	9.1	9.0	9.9	9.7	9.03	-	
SS (mg/L)	11.0	13.0	11.0	13.0	11.0	14.0	12.17	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	5.0	5.0	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.9	4.9	Y	Y	N	N	N	N	N	N	Y	Y	Y	Y	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.0	9.0	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	11.9	11.9	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Mid-Ebb

Station	IMO4							Co-ordinates	
Time (hh:mm)	10:49-10:51							Northing	Easting
Water Depth (m)	17.2							22.21.798	113.55.549
Monitoring Depth (m)	1.0		8.6		16.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.4	24.3	24.7	24.7	25.2	25.2	24.74	-	
Salinity (ppt)	31.7	31.3	32.6	32.6	33.2	33.3	32.44	-	
pH	8.1	8.2	8.1	8.2	8.1	8.1	8.13	-	
D.O. Saturation (%)	69.3	69.0	67.7	68.2	70.2	65.6	68.33	-	
D.O. (mg/L)	5.3	5.3	5.1	5.1	5.2	4.9	5.12	5.02	
Turbidity (NTU)	5.7	5.5	6.3	5.9	12.3	12.2	7.98	-	
SS (mg/L)	7.0	5.0	9.0	8.0	8.0	8.0	7.50	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	MPB1								
Time (hh:mm)	11:46-11:47								
Water Depth (m)	7.2								
Monitoring Depth (m)	1.0		3.6		6.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.4	24.4	24.7	24.6	24.7	24.3	24.52	-	
Salinity (ppt)	31.0	31.0	30.9	30.3	32.6	32.8	31.46	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.11	-	
D.O. Saturation (%)	54.2	52.7	52.9	54.6	52.7	54.3	53.57	-	
D.O. (mg/L)	3.8	3.7	3.7	3.8	3.6	3.8	3.73	3.70	
Turbidity (NTU)	10.2	10.5	10.9	10.9	11.4	11.1	10.83	-	
SS (mg/L)	10.0	10.0	9.0	11.0	9.0	9.0	9.67	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	MPB2								
Time (hh:mm)	11:51-11:52								
Water Depth (m)	7.4								
Monitoring Depth (m)	1.0		3.7		6.4				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.1	24.1	24.1	24.1	24.1	24.1	24.12	-	
Salinity (ppt)	31.2	31.2	31.2	31.2	31.2	31.2	31.19	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.10	-	
D.O. Saturation (%)	49.4	51.4	49.3	51.1	50.5	50.7	50.40	-	
D.O. (mg/L)	3.5	3.6	3.5	3.6	3.6	3.6	3.54	3.56	
Turbidity (NTU)	10.1	10.1	10.2	10.6	10.7	10.6	10.38	-	
SS (mg/L)	14.0	14.0	11.0	12.0	12.0	12.0	12.50	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station	MP								
Time (hh:mm)	11:39-11:40								
Water Depth (m)	4.9								
Monitoring Depth (m)	1.0		2.4		3.9				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.0	24.0	-	-	24.0	24.0	23.96	-	
Salinity (ppt)	30.9	30.9	-	-	30.9	30.9	30.89	-	
pH	8.1	8.0	-	-	8.0	8.0	8.03	-	
D.O. Saturation (%)	58.3	64.1	-	-	64.5	60.8	61.93	-	
D.O. (mg/L)	4.1	4.4	-	-	4.4	4.3	4.30	4.35	
Turbidity (NTU)	14.6	14.2	-	-	15.2	14.6	14.65	-	
SS (mg/L)	14.0	14.0	-	-	18.0	20.0	16.50	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Sampling Date	11/14/09
Weather & Ambient Temperature	Cloudy, 26C

Station		C1 (NM3)							
Time (hh:mm)		17:29-17:30							
Water Depth (m)		16.1							
Monitoring Depth (m)		1.0		8.1		15.1			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.2	25.2	25.3	25.3	25.3	25.4	25.28	-
Salinity (ppt)		33.1	32.7	33.7	33.8	33.9	33.9	33.50	-
pH		8.1	8.2	8.2	8.1	8.1	8.2	8.14	-
D.O. Saturation (%)		57.2	58.4	58.0	55.7	56.3	59.2	57.47	-
D.O. (mg/L)		4.1	4.2	4.1	3.9	4.0	4.2	4.06	4.07
Turbidity (NTU)		7.0	7.5	13.1	13.4	13.5	13.1	11.27	-
SS (mg/L)		8.0	7.0	7.0	6.0	7.0	6.0	6.83	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		C3 (NM6)							
Time (hh:mm)		15:53-15:54							
Water Depth (m)		6.4							
Monitoring Depth (m)		1.0		3.2		5.4			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.2	25.2	25.2	25.2	25.2	25.2	25.22	-
Salinity (ppt)		31.1	30.9	31.2	31.1	31.1	31.2	31.09	-
pH		8.1	8.1	8.1	8.1	8.1	8.1	8.08	-
D.O. Saturation (%)		65.9	66.3	66.4	66.5	65.1	66.8	66.17	-
D.O. (mg/L)		5.1	5.1	5.1	5.1	5.0	5.1	5.08	5.06
Turbidity (NTU)		11.5	12.4	12.3	12.8	13.4	13.3	12.62	-
SS (mg/L)		7.0	6.0	6.0	7.0	7.0	8.0	6.83	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		17:14-17:15						Northing	Easting
Water Depth (m)		20.8						22.21.981	113.55.382
Monitoring Depth (m)		1.0		10.4		19.8			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.4	25.4	25.4	25.4	25.4	25.4	25.38	-
Salinity (ppt)		33.7	33.7	33.9	33.9	34.0	33.9	33.82	-
pH		8.2	8.2	8.2	8.2	8.2	8.1	8.16	-
D.O. Saturation (%)		55.0	54.7	54.0	54.7	55.6	53.9	54.65	-
D.O. (mg/L)		3.9	3.9	3.8	3.9	3.9	3.8	3.86	3.86
Turbidity (NTU)		6.4	7.1	15.7	16.1	16.2	15.9	12.90	-
SS (mg/L)		6.0	6.0	8.0	7.0	7.0	9.0	7.17	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		16:49-16:51						Northing	Easting
Water Depth (m)		21.1						22.21.721	113.55.377
Monitoring Depth (m)		1.0		10.6		20.1			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.3	25.3	25.4	25.4	25.4	25.4	25.36	-
Salinity (ppt)		33.6	33.5	33.7	33.6	34.0	34.1	33.73	-
pH		8.2	8.2	8.2	8.1	8.2	8.1	8.15	-
D.O. Saturation (%)		57.3	56.9	54.2	54.0	57.7	52.3	55.40	-
D.O. (mg/L)		4.1	4.0	3.8	3.8	4.1	3.7	3.91	3.87
Turbidity (NTU)		8.0	8.7	15.5	15.0	16.7	16.1	13.33	-
SS (mg/L)		9.0	7.0	9.0	8.0	7.0	6.0	7.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)		17:08-17:09						Northing	Easting
Water Depth (m)		18.1						22.22.060	113.55.260
Monitoring Depth (m)		1.0		9.1		17.1			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.3	25.3	25.4	25.4	25.4	25.4	25.35	-
Salinity (ppt)		33.3	33.2	33.7	33.9	34.0	33.2	33.55	-
pH		8.1	8.2	8.2	8.1	8.2	8.1	8.15	-
D.O. Saturation (%)		54.0	55.6	54.4	50.8	56.3	51.7	53.80	-
D.O. (mg/L)		3.8	3.9	3.8	3.6	4.0	3.7	3.81	3.82
Turbidity (NTU)		10.6	10.6	15.0	15.1	16.4	16.0	13.95	-
SS (mg/L)		7.0	8.0	8.0	7.0	7.0	9.0	7.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1-C3)*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	4.6	4.6	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.6	4.6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Turbidity (Depth-averaged)	29.0	49.0	15.5	15.5	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.9	8.9	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Mid-Flood

Station		IMO4						Co-ordinates	
Time (hh:mm)		16:57-16:58						Northing	Easting
Water Depth (m)		17.9						22.21.799	113.55.541
Monitoring Depth (m)		1.0		9.0		16.9			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.4	25.4	25.4	25.4	25.4	25.4	25.40	-
Salinity (ppt)		33.6	33.7	33.7	33.7	33.7	33.7	33.69	-
pH		8.2	8.2	8.1	8.2	8.2	8.1	8.16	-
D.O. Saturation (%)		55.3	54.6	54.0	55.1	55.4	54.3	54.78	-
D.O. (mg/L)		3.9	3.9	3.8	3.9	3.9	3.8	3.87	3.87
Turbidity (NTU)		9.9	9.7	15.2	14.8	16.3	15.7	13.60	-
SS (mg/L)		7.0	8.0	8.0	6.0	6.0	7.0	7.00	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MPB1							
Time (hh:mm)		16:16-16:17							
Water Depth (m)		6.9							
Monitoring Depth (m)		1.0		3.5		5.9			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.3	25.2	25.3	25.3	25.3	25.2	25.25	-
Salinity (ppt)		31.1	31.0	31.2	31.1	31.6	31.4	31.23	-
pH		8.1	8.1	8.1	8.1	8.1	8.0	8.06	-
D.O. Saturation (%)		55.6	55.2	55.7	55.1	55.9	57.4	55.82	-
D.O. (mg/L)		4.1	4.1	4.1	4.1	4.1	4.3	4.14	4.20
Turbidity (NTU)		11.6	11.0	11.1	11.1	14.1	14.4	12.22	-
SS (mg/L)		10.0	9.0	9.0	8.0	9.0	7.0	8.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MPB2							
Time (hh:mm)		16:09-16:10							
Water Depth (m)		7.0							
Monitoring Depth (m)		1.0		3.5		6.0			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.2	25.2	25.3	25.2	25.3	25.2	25.22	-
Salinity (ppt)		30.5	30.6	30.8	30.8	31.6	31.8	30.98	-
pH		8.1	8.1	8.1	8.0	8.0	8.1	8.06	-
D.O. Saturation (%)		55.8	56.2	56.4	54.9	55.3	56.3	55.82	-
D.O. (mg/L)		4.2	4.2	4.2	4.1	4.1	4.2	4.16	4.14
Turbidity (NTU)		4.9	4.8	4.8	5.1	6.4	5.8	5.30	-
SS (mg/L)		8.0	9.0	8.0	8.0	7.0	8.0	8.00	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MP							
Time (hh:mm)		16:24-16:25							
Water Depth (m)		5.0							
Monitoring Depth (m)		1.0		2.5		4.0			
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)		25.2	25.2	-	-	25.2	25.2	25.22	-
Salinity (ppt)		30.8	30.8	-	-	30.9	30.8	30.82	-
pH		8.1	8.1	-	-	8.1	8.1	8.07	-
D.O. Saturation (%)		54.4	54.2	-	-	54.3	55.1	54.50	-
D.O. (mg/L)		4.1	4.0	-	-	4.1	4.1	4.07	4.08
Turbidity (NTU)		9.1	9.5	-	-	11.8	11.0	10.35	-
SS (mg/L)		7.0	8.0	-	-	8.0	7.0	7.50	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Sampling Date	11/15/09
Weather & Ambient Temperature	Cloudy, 25C

Station		C1 (NM3)							
Time (hh:mm)		17:29-17:31							
Water Depth (m)		17.2							
Monitoring Depth (m)		1.0		8.6		16.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.2	24.2	24.2	24.2	24.2	24.2	24.22	-	
Salinity (ppt)	33.3	33.4	33.3	33.4	33.4	33.3	33.33	-	
pH	8.2	8.2	8.1	8.2	8.2	8.2	8.16	-	
D.O. Saturation (%)	78.6	74.6	79.2	74.8	76.0	87.4	78.43	-	
D.O. (mg/L)	5.4	5.2	5.5	5.2	5.3	6.1	5.43	5.66	
Turbidity (NTU)	13.8	13.2	14.8	14.9	18.6	18.8	15.68	-	
SS (mg/L)	28.0	25.0	25.0	22.0	38.0	35.0	28.83	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		C3 (NM6)							
Time (hh:mm)		16:17-16:18							
Water Depth (m)		7.4							
Monitoring Depth (m)		1.0		3.7		6.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.5	23.5	23.5	23.6	23.5	23.5	23.53	-	
Salinity (ppt)	32.4	32.5	32.4	32.6	32.4	32.7	32.52	-	
pH	8.1	8.1	8.1	8.1	8.0	8.1	8.08	-	
D.O. Saturation (%)	50.8	51.5	51.3	51.3	52.7	51.0	51.43	-	
D.O. (mg/L)	3.6	3.6	3.6	3.6	3.7	3.6	3.63	3.66	
Turbidity (NTU)	7.8	7.9	8.6	8.3	10.1	10.2	8.82	-	
SS (mg/L)	9.0	11.0	8.0	10.0	14.0	13.0	10.83	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		16:43-16:45						Northing	Easting
Water Depth (m)		21.6						22.21.939	113.55.141
Monitoring Depth (m)		1.0		10.8		20.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.3	24.3	24.4	24.4	24.4	24.3	24.35	-	
Salinity (ppt)	33.3	33.3	33.5	33.5	33.5	33.4	33.41	-	
pH	8.2	8.2	8.2	8.2	8.2	8.1	8.16	-	
D.O. Saturation (%)	59.0	58.8	58.1	57.8	60.3	58.2	58.70	-	
D.O. (mg/L)	4.1	4.1	4.0	4.0	4.2	4.0	4.06	4.09	
Turbidity (NTU)	13.1	13.3	23.3	22.9	25.1	25.9	20.60	-	
SS (mg/L)	9.0	11.0	12.0	14.0	27.0	26.0	16.50	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		17:09-17:10						Northing	Easting
Water Depth (m)		20.4						22.21.662	113.55.409
Monitoring Depth (m)		1.0		10.2		19.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.2	24.2	24.1	24.1	24.0	24.1	24.14	-	
Salinity (ppt)	33.3	33.3	33.3	33.4	33.4	33.5	33.36	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.17	-	
D.O. Saturation (%)	49.8	48.5	48.1	49.3	47.9	49.1	48.78	-	
D.O. (mg/L)	3.5	3.4	3.3	3.4	3.3	3.4	3.39	3.37	
Turbidity (NTU)	10.9	11.0	22.8	22.2	24.3	24.9	19.35	-	
SS (mg/L)	12.0	12.0	9.0	10.0	70.0	68.0	30.17	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)		16:50-16:52						Northing	Easting
Water Depth (m)		18.9						22.22.071	113.55.257
Monitoring Depth (m)		1.0		9.5		17.9			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.3	24.3	24.3	24.3	24.3	24.3	24.28	-	
Salinity (ppt)	33.5	33.5	33.5	33.5	33.4	33.5	33.48	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.18	-	
D.O. Saturation (%)	58.4	57.3	51.0	56.1	52.4	58.5	55.62	-	
D.O. (mg/L)	4.0	4.0	3.5	3.9	3.6	4.1	3.85	3.84	
Turbidity (NTU)	18.6	18.4	26.2	25.9	27.6	27.3	24.00	-	
SS (mg/L)	41.0	39.0	44.0	40.0	48.0	53.0	44.17	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1-C3)*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	4.7	4.7	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.5	4.5	Y	N	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	N	N
Turbidity (Depth-averaged)	29.0	49.0	15.9	15.9	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	25.8	25.8	N	N	Y	Y	N	Y	N	N	N	N	N	N	N	N

Mid-Flood

Station		IMO4						Co-ordinates	
Time (hh:mm)		17:00-17:01						Northing	Easting
Water Depth (m)		14.3							
Monitoring Depth (m)		1.0		7.2		13.3			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.3	24.3	24.3	24.3	24.3	24.2	24.25	-	
Salinity (ppt)	33.4	33.4	33.3	33.4	33.4	33.3	33.38	-	
pH	8.2	8.1	8.1	8.2	8.1	8.1	8.13	-	
D.O. Saturation (%)	49.4	48.5	48.9	49.4	49.3	51.0	49.42	-	
D.O. (mg/L)	3.4	3.4	3.4	3.4	3.4	3.5	3.42	3.47	
Turbidity (NTU)	15.2	15.1	16.4	16.5	16.7	16.6	16.08	-	
SS (mg/L)	22.0	21.0	25.0	23.0	31.0	34.0	26.00	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MPB1							
Time (hh:mm)		15:52-15:53							
Water Depth (m)		8.2							
Monitoring Depth (m)		1.0		4.1		7.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.0	24.0	24.1	24.2	24.0	24.2	24.11	-	
Salinity (ppt)	32.5	32.4	32.8	32.8	32.8	32.9	32.71	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.08	-	
D.O. Saturation (%)	60.9	60.8	61.4	61.7	61.4	64.4	61.77	-	
D.O. (mg/L)	4.3	4.3	4.3	4.3	4.3	4.5	4.30	4.38	
Turbidity (NTU)	6.4	6.5	7.4	7.3	7.2	7.4	7.03	-	
SS (mg/L)	8.0	9.0	8.0	10.0	8.0	10.0	8.83	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MPB2							
Time (hh:mm)		16:01-16:02							
Water Depth (m)		8.8							
Monitoring Depth (m)		1.0		4.4		7.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.9	23.9	24.0	24.0	24.0	24.0	23.99	-	
Salinity (ppt)	32.5	32.6	32.6	32.7	32.6	32.7	32.61	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.10	-	
D.O. Saturation (%)	50.8	51.4	50.3	51.4	51.4	51.4	51.12	-	
D.O. (mg/L)	3.6	3.6	3.5	3.6	3.6	3.6	3.57	3.59	
Turbidity (NTU)	5.5	5.7	6.3	6.3	6.7	6.2	6.12	-	
SS (mg/L)	10.0	12.0	8.0	9.0	11.0	11.0	10.17	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Station		MP							
Time (hh:mm)		15:44-15:45							
Water Depth (m)		5.5							
Monitoring Depth (m)		1.0		2.8		4.5			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	24.3	24.2	-	-	24.2	24.2	24.22	-	
Salinity (ppt)	32.2	32.2	-	-	32.4	32.3	32.25	-	
pH	8.0	8.0	-	-	8.0	8.0	8.03	-	
D.O. Saturation (%)	84.9	89.3	-	-	94.0	88.8	89.25	-	
D.O. (mg/L)	5.9	6.2	-	-	6.6	6.2	6.23	6.38	
Turbidity (NTU)	10.4	10.4	-	-	11.0	11.3	10.78	-	
SS (mg/L)	13.0	12.0	-	-	14.0	14.0	13.25	-	
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation.								

Sampling Date	11/16/09
Weather & Ambient Temperature	Rainy, 24C

Station	C1 (NM3)							
Time (hh:mm)	6:56-6:58							
Water Depth (m)	16.4							
Monitoring Depth (m)	1.0		8.2		15.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.9	23.9	24.1	24.1	24.2	24.2	24.07	-
Salinity (ppt)	33.6	33.6	33.8	33.7	33.8	34.0	33.73	-
pH	8.2	8.3	8.3	8.2	8.2	8.2	8.23	-
D.O. Saturation (%)	62.4	63.4	62.7	61.3	61.8	63.2	62.47	-
D.O. (mg/L)	4.3	4.4	4.3	4.2	4.3	4.4	4.33	4.32
Turbidity (NTU)	7.2	6.8	9.9	9.7	10.7	11.2	9.25	-
SS (mg/L)	16.0	14.0	10.0	11.0	11.0	12.0	12.33	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	C3 (NM6)							
Time (hh:mm)	8:10-8:12							
Water Depth (m)	6.4							
Monitoring Depth (m)	1.0		3.2		5.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.1	23.1	23.1	23.1	23.1	23.1	23.08	-
Salinity (ppt)	33.5	33.5	33.6	33.6	33.9	33.9	33.65	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.28	-
D.O. Saturation (%)	60.0	59.9	61.1	62.1	61.8	62.8	61.28	-
D.O. (mg/L)	4.2	4.2	4.3	4.4	4.3	4.4	4.32	4.38
Turbidity (NTU)	10.4	10.0	13.1	13.0	16.7	17.2	13.40	-
SS (mg/L)	12.0	10.0	11.0	12.0	14.0	16.0	12.50	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	IMO1						Co-ordinates	
Time (hh:mm)	8:32-8:34						Northing	Easting
Water Depth (m)	17.8						22.21.690	113.54.552
Monitoring Depth (m)	1.0		8.9		16.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.4	23.4	23.5	23.5	23.6	23.6	23.50	-
Salinity (ppt)	33.4	33.4	33.3	33.4	33.6	33.4	33.41	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20	-
D.O. Saturation (%)	82.2	81.7	82.4	81.7	82.1	85.2	82.55	-
D.O. (mg/L)	5.8	5.7	5.8	5.7	5.7	6.0	5.78	5.85
Turbidity (NTU)	8.8	8.8	9.9	9.6	9.3	9.0	9.23	-
SS (mg/L)	23.0	20.0	14.0	14.0	16.0	13.0	16.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	IMO2						Co-ordinates	
Time (hh:mm)	8:41-8:43						Northing	Easting
Water Depth (m)	15.2						22.21.366	113.54.965
Monitoring Depth (m)	1.0		7.6		14.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.2	23.2	23.4	23.4	23.4	23.4	23.31	-
Salinity (ppt)	33.2	33.2	33.3	33.4	33.4	33.5	33.35	-
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.23	-
D.O. Saturation (%)	73.1	73.2	72.4	73.0	73.3	73.7	73.12	-
D.O. (mg/L)	5.2	5.2	5.1	5.1	5.1	5.2	5.14	5.16
Turbidity (NTU)	8.8	9.0	9.8	10.1	10.2	10.0	9.65	-
SS (mg/L)	14.0	11.0	14.0	12.0	10.0	13.0	12.33	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	IMO3						Co-ordinates	
Time (hh:mm)	7:15-7:17						Northing	Easting
Water Depth (m)	20.0						22.22.055	113.55.235
Monitoring Depth (m)	1.0		10.0		19.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.9	23.9	23.9	23.9	23.9	23.9	23.89	-
Salinity (ppt)	33.6	33.6	33.7	33.6	33.6	33.7	33.63	-
pH	8.2	8.2	8.2	8.2	8.1	8.1	8.17	-
D.O. Saturation (%)	79.8	80.3	80.1	80.4	82.2	80.7	80.58	-
D.O. (mg/L)	5.6	5.6	5.6	5.6	5.7	5.6	5.60	5.67
Turbidity (NTU)	8.7	8.3	14.3	14.3	19.8	19.3	14.12	-
SS (mg/L)	15.0	14.0	14.0	12.0	13.0	14.0	13.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1-C3)*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	4.3	4.3	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.3	4.3	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	14.7	14.7	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	16.1	16.1	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Mid-Flood

Station	IMO4							
Time (hh:mm)	7:05-7:07							
Water Depth (m)	18.6							
Monitoring Depth (m)	1.0		9.3		17.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.9	23.9	23.9	23.9	23.9	24.0	23.92	-
Salinity (ppt)	33.6	33.5	33.5	33.6	33.6	33.6	33.58	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.19	-
D.O. Saturation (%)	84.4	84.9	84.4	84.7	84.2	84.7	84.55	-
D.O. (mg/L)	5.9	5.9	5.9	5.9	5.9	5.9	5.88	5.87
Turbidity (NTU)	8.2	8.0	12.4	11.9	14.2	13.8	11.42	-
SS (mg/L)	13.0	12.0	12.0	10.0	11.0	12.0	11.67	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	MPB1							
Time (hh:mm)	7:45-7:47							
Water Depth (m)	8.0							
Monitoring Depth (m)	1.0		4.0		7.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.4	23.4	23.4	23.4	23.3	23.2	23.34	-
Salinity (ppt)	32.7	32.6	32.9	32.8	33.1	33.1	32.87	-
pH	8.2	8.2	8.2	8.2	8.1	8.1	8.16	-
D.O. Saturation (%)	66.0	65.5	64.9	65.9	65.5	66.5	65.72	-
D.O. (mg/L)	4.7	4.6	4.6	4.6	4.6	4.7	4.63	4.65
Turbidity (NTU)	10.8	10.3	16.7	16.5	24.0	23.4	16.95	-
SS (mg/L)	11.0	13.0	12.0	14.0	14.0	11.0	12.50	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	MPB2							
Time (hh:mm)	7:55-7:56							
Water Depth (m)	8.4							
Monitoring Depth (m)	1.0		4.2		7.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.1	23.1	23.1	23.1	23.1	23.1	23.08	-
Salinity (ppt)	33.4	33.5	33.8	33.7	33.9	33.8	33.68	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20	-
D.O. Saturation (%)	65.9	65.0	66.3	65.1	65.9	67.0	65.87	-
D.O. (mg/L)	4.7	4.6	4.7	4.6	4.6	4.7	4.64	4.68
Turbidity (NTU)	9.5	9.6	15.0	15.4	21.3	20.9	15.28	-
SS (mg/L)	19.0	18.0	10.0	11.0	13.0	13.0	14.00	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Station	MP							
Time (hh:mm)	7:33-7:35							
Water Depth (m)	5.1							
Monitoring Depth (m)	1.0		2.6		4.1			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.3	23.3	-	-	23.3	23.3	23.33	-
Salinity (ppt)	32.5	32.5	-	-	32.5	32.4	32.47	-
pH	8.1	8.1	-	-	8.1	8.1	8.08	-
D.O. Saturation (%)	66.5	66.8	-	-	67.0	68.4	67.18	-
D.O. (mg/L)	4.7	4.7	-	-	4.7	4.8	4.74	4.78
Turbidity (NTU)	17.0	16.3	-	-	20.5	19.7	18.38	-
SS (mg/L)	24.0	22.0	-	-	22.0	23.0	22.75	-
Remarks	Derrick lighters CM38 & CM83 (B21601V & B21784V) were in operation							

Sampling Date	11/17/09
Weather & Ambient Temperature	Cloudy, 24C

Mid-Ebb

Station	C2 (NM5)						Co-ordinates	
Time (hh:mm)	12:34-12:36						Northing	Easting
Water Depth (m)	19.4							
Monitoring Depth (m)	1.0		9.7		18.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.1	22.1	22.1	22.1	22.1	22.1	22.09	-
Salinity (ppt)	33.6	33.6	33.6	33.6	33.7	33.7	33.63	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.31	-
D.O. Saturation (%)	66.7	66.8	67.3	67.3	68.1	67.5	67.28	-
D.O. (mg/L)	4.8	4.8	4.8	4.8	4.9	4.9	4.83	4.87
Turbidity (NTU)	13.1	12.8	14.9	14.6	16.8	16.6	14.80	-
SS (mg/L)	30.0	20.0	17.0	16.0	16.0	18.0	19.50	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	IMO4						Co-ordinates	
Time (hh:mm)							Northing	Easting
Water Depth (m)								
Monitoring Depth (m)								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-
Remarks								

Station	IMO1						Co-ordinates	
Time (hh:mm)	13:13-13:15						Northing	Easting
Water Depth (m)	18.0						22.21.713	113.54.592
Monitoring Depth (m)	1.0		9.0		17.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.0	23.0	23.00	-
Salinity (ppt)	34.0	34.0	33.9	34.0	33.9	33.9	33.93	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-
D.O. Saturation (%)	60.3	60.4	59.8	60.2	60.4	60.9	60.33	-
D.O. (mg/L)	4.3	4.3	4.2	4.3	4.3	4.3	4.26	4.28
Turbidity (NTU)	21.8	21.4	23.5	23.8	28.4	28.6	24.58	-
SS (mg/L)	26.0	22.0	23.0	23.0	24.0	23.0	23.50	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	MPB1						Co-ordinates	
Time (hh:mm)	12:58-13:00							
Water Depth (m)	7.4							
Monitoring Depth (m)	1.0		3.7		6.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.3	23.4	23.1	23.1	22.8	22.8	23.08	-
Salinity (ppt)	34.1	34.1	34.0	34.0	33.9	33.9	33.99	-
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.22	-
D.O. Saturation (%)	53.4	52.9	53.0	53.4	53.6	53.8	53.35	-
D.O. (mg/L)	3.7	3.7	3.7	3.8	3.8	3.8	3.76	3.80
Turbidity (NTU)	11.0	10.6	11.8	12.5	14.7	15.0	12.60	-
SS (mg/L)	26.0	31.0	27.0	28.0	38.0	34.0	30.67	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	IMO2						Co-ordinates	
Time (hh:mm)	13:24-13:26						Northing	Easting
Water Depth (m)	16.6						22.21.450	113.54.911
Monitoring Depth (m)	1.0		8.3		15.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.6	23.7	23.7	23.7	23.7	23.7	23.67	-
Salinity (ppt)	34.3	34.3	34.2	34.2	34.2	34.2	34.23	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.33	-
D.O. Saturation (%)	60.8	60.7	61.3	60.9	61.1	61.4	61.03	-
D.O. (mg/L)	4.2	4.2	4.3	4.2	4.3	4.3	4.24	4.26
Turbidity (NTU)	12.2	12.4	16.2	16.1	22.9	23.4	17.20	-
SS (mg/L)	24.0	25.0	22.0	22.0	23.0	22.0	23.00	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	MPB2						Co-ordinates	
Time (hh:mm)	12:23-12:25							
Water Depth (m)	8.0							
Monitoring Depth (m)	1.0		4.0		7.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.9	21.9	21.9	21.9	22.0	22.0	21.94	-
Salinity (ppt)	33.5	33.5	33.5	33.5	33.4	33.4	33.47	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-
D.O. Saturation (%)	69.8	68.7	69.4	70.2	71.3	72.0	70.23	-
D.O. (mg/L)	5.0	5.0	5.0	5.1	5.1	5.2	5.06	5.16
Turbidity (NTU)	12.2	12.6	14.9	15.3	20.2	19.9	15.85	-
SS (mg/L)	33.0	38.0	40.0	39.0	40.0	42.0	38.67	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	IMO3						Co-ordinates	
Time (hh:mm)							Northing	Easting
Water Depth (m)								
Monitoring Depth (m)								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-
Remarks								

Station	MP						Co-ordinates	
Time (hh:mm)	12:44-12:45							
Water Depth (m)	4.6							
Monitoring Depth (m)	1.0		2.3		3.6			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.1	22.1	-	-	22.1	22.1	22.12	-
Salinity (ppt)	33.6	33.6	-	-	33.6	33.5	33.59	-
pH	8.3	8.3	-	-	8.3	8.3	8.28	-
D.O. Saturation (%)	59.5	59.3	-	-	58.8	58.8	59.10	-
D.O. (mg/L)	4.3	4.3	-	-	4.2	4.2	4.25	4.23
Turbidity (NTU)	23.9	23.8	-	-	24.6	25.1	24.35	-
SS (mg/L)	34.0	34.0	-	-	32.0	35.0	33.75	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	4.9	4.9	N	N	N	N	-	-	-	-	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.8	4.8	N	N	N	N	-	-	-	-	Y	Y	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	19.2	19.2	N	N	N	N	-	-	-	-	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	25.4	25.4	N	N	N	N	-	-	-	-	Y	N	Y	Y	Y	N

Sampling Date	11/17/09
Weather & Ambient Temperature	Cloudy, 24C

Station	C1 (NM3)							
Time (hh:mm)	7:50-7:53							
Water Depth (m)	16.2							
Monitoring Depth (m)	1.0		8.1		15.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.7	23.7	23.7	23.8	23.7	23.8	23.74	-
Salinity (ppt)	34.2	34.2	34.2	34.2	34.2	34.2	34.20	-
pH	8.3	8.3	8.2	8.3	8.2	8.3	8.27	-
D.O. Saturation (%)	75.7	75.4	75.9	75.2	76.4	76.3	75.82	-
D.O. (mg/L)	5.3	5.2	5.3	5.2	5.3	5.3	5.27	5.31
Turbidity (NTU)	6.1	6.2	7.2	7.2	8.3	8.6	7.27	-
SS (mg/L)	14.0	16.0	17.0	18.0	13.0	16.0	15.67	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	C3 (NM6)							
Time (hh:mm)	9:19-9:21							
Water Depth (m)	6.2							
Monitoring Depth (m)	1.0		3.1		5.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.7	21.7	21.7	21.7	21.7	21.7	21.69	-
Salinity (ppt)	33.9	33.9	33.9	33.9	33.8	33.8	33.85	-
pH	8.3	8.3	8.3	8.3	8.3	8.2	8.27	-
D.O. Saturation (%)	79.2	78.4	78.0	77.8	76.0	76.7	77.68	-
D.O. (mg/L)	5.7	5.7	5.6	5.6	5.5	5.5	5.60	5.50
Turbidity (NTU)	17.0	16.8	20.2	19.8	22.8	22.8	19.90	-
SS (mg/L)	32.0	28.0	27.0	26.0	26.0	23.0	27.00	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	IMO1								Co-ordinates	
Time (hh:mm)	8:27-8:29								Northing	Easting
Water Depth (m)	18.4								22.21.705	113.54.590
Monitoring Depth (m)	1.0		9.2		17.4					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	23.0	23.0	22.9	22.9	23.0	23.0	22.98	-		
Salinity (ppt)	33.9	33.9	33.9	33.8	33.8	33.8	33.85	-		
pH	8.3	8.3	8.3	8.2	8.2	8.2	8.25	-		
D.O. Saturation (%)	57.9	58.0	58.2	58.1	58.7	58.5	58.23	-		
D.O. (mg/L)	4.1	4.1	4.1	4.1	4.1	4.1	4.11	4.14		
Turbidity (NTU)	17.1	16.7	19.8	20.5	24.1	23.7	20.32	-		
SS (mg/L)	25.0	29.0	27.0	32.0	33.0	27.0	28.83	-		
Remarks	Derrick lighter CM38 (B21601V) was in operation									

Station	IMO2								Co-ordinates	
Time (hh:mm)	8:15-8:18								Northing	Easting
Water Depth (m)	16.6								22.21.441	113.54.903
Monitoring Depth (m)	1.0		8.3		15.6					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	23.6	23.6	23.7	23.7	23.7	23.7	23.67	-		
Salinity (ppt)	34.1	34.2	34.2	34.2	34.2	34.2	34.17	-		
pH	8.3	8.3	8.3	8.3	8.3	8.2	8.27	-		
D.O. Saturation (%)	57.8	57.5	58.0	57.7	58.6	58.1	57.95	-		
D.O. (mg/L)	4.0	4.0	4.0	4.0	4.1	4.0	4.03	4.06		
Turbidity (NTU)	13.3	13.9	18.4	18.8	25.8	25.4	19.27	-		
SS (mg/L)	23.0	27.0	24.0	25.0	19.0	20.0	23.00	-		
Remarks	Derrick lighter CM38 (B21601V) was in operation									

Station	IMO3								Co-ordinates	
Time (hh:mm)									Northing	Easting
Water Depth (m)										
Monitoring Depth (m)										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	-	-	-	-	-	-	-	-		
Salinity (ppt)	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-		
D.O. Saturation (%)	-	-	-	-	-	-	-	-		
D.O. (mg/L)	-	-	-	-	-	-	-	-		
Turbidity (NTU)	-	-	-	-	-	-	-	-		
SS (mg/L)	-	-	-	-	-	-	-	-		
Remarks										

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	5.4	5.4	N	N	N	N	-	-	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.4	5.4	Y	N	Y	N	-	-	N	N	N	N	N	N	Y	Y
Turbidity (Depth-averaged)	29.0	49.0	17.7	17.7	N	N	N	N	-	-	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	27.7	27.7	Y	N	N	N	-	-	Y	N	Y	N	Y	N	Y	N

Mid-Flood

Station	IMO4								Co-ordinates	
Time (hh:mm)									Northing	Easting
Water Depth (m)										
Monitoring Depth (m)										
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	-	-	-	-	-	-	-	-		
Salinity (ppt)	-	-	-	-	-	-	-	-		
pH	-	-	-	-	-	-	-	-		
D.O. Saturation (%)	-	-	-	-	-	-	-	-		
D.O. (mg/L)	-	-	-	-	-	-	-	-		
Turbidity (NTU)	-	-	-	-	-	-	-	-		
SS (mg/L)	-	-	-	-	-	-	-	-		
Remarks										

Station	MPB1							
Time (hh:mm)	8:52-8:54							
Water Depth (m)	7.8							
Monitoring Depth (m)	1.0		3.9		6.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.0	22.0	22.1	22.1	22.1	22.05	-
Salinity (ppt)	33.6	33.6	33.6	33.6	33.5	33.5	33.53	-
pH	8.3	8.3	8.3	8.3	8.2	8.2	8.26	-
D.O. Saturation (%)	64.3	64.1	62.5	62.6	61.7	62.0	62.87	-
D.O. (mg/L)	4.6	4.6	4.5	4.5	4.4	4.5	4.51	4.44
Turbidity (NTU)	18.8	18.1	18.7	18.5	19.4	19.1	18.77	-
SS (mg/L)	28.0	28.0	28.0	33.0	31.0	31.0	29.67	-
Remarks	Derrick lighter CM38 (B21601V) was in operation							

Station	MPB2								Co-ordinates	
Time (hh:mm)	9:01-9:04								Northing	Easting
Water Depth (m)	8.2								22.21.705	113.54.590
Monitoring Depth (m)	1.0		4.1		7.2					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	21.9	21.9	21.9	21.9	21.9	22.0	21.91	-		
Salinity (ppt)	33.4	33.5	33.4	33.4	33.4	33.3	33.39	-		
pH	8.3	8.3	8.2	8.2	8.2	8.2	8.24	-		
D.O. Saturation (%)	67.1	67.2	66.4	66.2	67.5	67.2	66.93	-		
D.O. (mg/L)	4.8	4.8	4.8	4.8	4.9	4.8	4.82	4.86		
Turbidity (NTU)	11.3	11.1	15.8	15.5	18.7	19.1	15.25	-		
SS (mg/L)	30.0	30.0	28.0	35.0	41.0	39.0	33.83	-		
Remarks	Derrick lighter CM38 (B21601V) was in operation									

Station	MP								Co-ordinates	
Time (hh:mm)	8:42-8:44								Northing	Easting
Water Depth (m)	4.9								22.21.441	113.54.903
Monitoring Depth (m)	1.0		2.5		3.9					
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom		
Water Temperature (°C)	22.1	22.1	-	-	22.1	22.1	22.09	-		
Salinity (ppt)	33.4	33.5	-	-	33.4	33.4	33.44	-		
pH	8.3	8.2	-	-	8.3	8.2	8.24	-		
D.O. Saturation (%)	54.7	54.0	-	-	54.0	53.6	54.08	-		
D.O. (mg/L)	3.9	3.9	-	-	3.9	3.9	3.89	3.87		
Turbidity (NTU)	23.1	22.2	-	-	26.7	27.8	24.95	-		
SS (mg/L)	34.0	31.0	-	-	30.0	46.0	35.25	-		
Remarks	Derrick lighter CM38 (B21601V) was in operation									

Sampling Date	11/18/09
Weather & Ambient Temperature	Cloudy, 15C

Station	C2 (NMS)							Co-ordinates	
Time (hh:mm)	13:23-13:24							Northing	Easting
Water Depth (m)	20.1							22.21.700	113.54.479
Monitoring Depth (m)	1.0		10.1		19.1			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	23.1	23.1	23.1	23.1	23.1	23.1	23.11	-	
Salinity (ppt)	34.5	34.5	34.6	34.5	34.4	34.5	34.50	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20	-	
D.O. Saturation (%)	104.7	101.3	101.9	107.2	112.2	103.3	105.10	-	
D.O. (mg/L)	7.4	7.1	7.2	7.5	7.9	7.3	7.38	7.57	
Turbidity (NTU)	16.5	15.5	18.8	20.8	20.0	19.4	18.50	-	
SS (mg/L)	10.0	9.0	11.0	10.0	11.0	10.0	10.17	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	IMO1							Co-ordinates	
Time (hh:mm)	13:37-13:38							Northing	Easting
Water Depth (m)	18.6							22.21.700	113.54.479
Monitoring Depth (m)	1.0		9.3		17.6			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	23.0	23.0	22.7	22.7	22.6	22.8	22.82	-	
Salinity (ppt)	34.6	34.6	34.5	34.5	34.5	34.5	34.53	-	
pH	8.3	8.3	8.3	8.3	8.3	8.2	8.26	-	
D.O. Saturation (%)	78.3	78.5	78.0	78.5	78.1	77.9	78.22	-	
D.O. (mg/L)	5.5	5.5	5.5	5.6	5.5	5.5	5.52	5.52	
Turbidity (NTU)	18.8	18.8	19.1	19.9	19.2	19.6	19.23	-	
SS (mg/L)	14.0	11.0	15.0	16.0	17.0	17.0	15.00	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	IMO2							Co-ordinates	
Time (hh:mm)	13:50-13:51							Northing	Easting
Water Depth (m)	13.2							22.21.306	113.54.869
Monitoring Depth (m)	1.0		6.6		12.2			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	22.9	23.0	22.5	22.5	22.5	22.3	22.60	-	
Salinity (ppt)	34.7	30.9	34.7	34.7	34.3	34.4	33.94	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	78.8	76.3	79.0	78.2	78.0	84.1	79.07	-	
D.O. (mg/L)	5.5	5.5	5.6	5.6	5.5	6.0	5.62	5.76	
Turbidity (NTU)	19.0	19.4	21.9	21.3	22.7	22.3	21.10	-	
SS (mg/L)	14.0	12.0	13.0	14.0	16.0	19.0	14.67	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	IMO3							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station	IMO4							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Mid-Ebb

Station	IMO5							Co-ordinates	
Time (hh:mm)	14:03-14:04							Northing	Easting
Water Depth (m)	19.7							22.21.060	113.55.099
Monitoring Depth (m)	1.0		9.9		18.7			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.0	23.0	23.00	-	
Salinity (ppt)	34.5	34.5	34.4	34.4	34.5	34.6	34.26	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	79.3	79.2	79.3	79.2	79.3	79.4	79.28	-	
D.O. (mg/L)	5.6	5.6	5.6	5.6	5.6	5.6	5.58	5.58	
Turbidity (NTU)	24.1	23.5	30.9	30.4	32.9	32.7	29.08	-	
SS (mg/L)	21.0	22.0	17.0	14.0	15.0	16.0	17.50	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	IMO6							Co-ordinates	
Time (hh:mm)	14:16-14:17							Northing	Easting
Water Depth (m)	18.8							22.21.680	113.55.722
Monitoring Depth (m)	1.0		9.4		17.8			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.0	23.0	23.01	-	
Salinity (ppt)	34.5	34.5	34.0	34.4	34.5	34.5	34.40	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	83.6	83.2	83.3	83.6	83.7	83.3	83.45	-	
D.O. (mg/L)	5.9	5.9	5.9	5.9	5.9	5.9	5.87	5.87	
Turbidity (NTU)	21.6	20.6	23.9	24.6	25.1	24.6	23.40	-	
SS (mg/L)	17.0	16.0	14.0	15.0	12.0	14.0	14.67	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	MPB1							Co-ordinates	
Time (hh:mm)	12:56-12:57							Northing	Easting
Water Depth (m)	8.3							22.21.306	113.54.869
Monitoring Depth (m)	1.0		4.2		7.3			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.4	21.3	21.3	21.3	21.3	21.3	21.30	-	
Salinity (ppt)	34.2	34.2	34.1	30.6	34.2	34.2	33.58	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.31	-	
D.O. Saturation (%)	80.6	80.9	81.2	81.0	81.1	80.9	80.95	-	
D.O. (mg/L)	5.8	5.9	5.9	6.0	5.9	5.9	5.89	5.88	
Turbidity (NTU)	20.4	20.9	28.7	28.3	28.2	27.4	25.65	-	
SS (mg/L)	21.0	24.0	28.0	23.0	27.0	29.0	25.33	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	MPB2							Co-ordinates	
Time (hh:mm)	12:45-12:46							Northing	Easting
Water Depth (m)	8.5							22.21.306	113.54.869
Monitoring Depth (m)	1.0		4.3		7.5			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.3	21.3	21.3	21.3	21.3	21.3	21.30	-	
Salinity (ppt)	33.1	34.2	34.2	32.3	34.2	34.2	33.69	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.31	-	
D.O. Saturation (%)	81.3	81.6	82.0	81.3	82.1	81.5	81.63	-	
D.O. (mg/L)	5.9	5.9	6.0	6.0	6.0	5.9	5.94	5.94	
Turbidity (NTU)	34.7	34.7	34.4	34.7	37.9	37.1	35.58	-	
SS (mg/L)	55.0	50.0	41.0	46.0	55.0	48.0	49.17	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Station	MP							Co-ordinates	
Time (hh:mm)	13:05-13:06							Northing	Easting
Water Depth (m)	5.1							22.21.306	113.54.869
Monitoring Depth (m)	1.0		2.5		4.1			Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.7	21.6	-	-	21.7	21.6	21.64	-	
Salinity (ppt)	33.8	33.8	-	-	33.8	33.8	33.80	-	
pH	8.2	8.2	-	-	8.2	8.1	8.15	-	
D.O. Saturation (%)	80.5	80.8	-	-	80.7	81.5	80.88	-	
D.O. (mg/L)	5.8	5.9	-	-	5.8	5.9	5.85	5.87	
Turbidity (NTU)	17.0	17.4	-	-	17.1	17.8	17.33	-	
SS (mg/L)	21.0	18.0	-	-	14.0	16.0	17.25	-	
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.								

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	7.6	7.6	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.4	7.4	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	24.1	24.1	N	N	N	N	-	-	-	-	Y	N	N	N	N	N	Y	N	N	N
SS (Depth-averaged)	24.0	37.0	13.2	13.2	N	N	N	N	-	-	-	-	N	N	N	N	N	N	Y	Y	Y	N

Sampling Date	11/18/09
Weather & Ambient Temperature	Cloudy, 12C

Mid-Flood

Station	C1 (NM3)						Co-ordinates	
Time (hh:mm)	8:25-8:26						Northing	Easting
Water Depth (m)	16.2						22.21.041	113.55.156
Monitoring Depth (m)	1.0		8.1		15.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.1	23.0	23.93	-
Salinity (ppt)	34.5	34.4	34.5	34.4	34.5	34.4	34.46	-
pH	8.3	8.2	8.3	8.2	8.2	8.2	8.22	-
D.O. Saturation (%)	100.5	100.3	101.5	100.3	100.3	100.4	100.55	-
D.O. (mg/L)	7.1	7.1	7.1	7.1	7.1	7.1	7.07	7.05
Turbidity (NTU)	18.6	18.9	22.0	21.4	22.3	22.7	20.98	-
SS (mg/L)	18.0	15.0	17.0	16.0	24.0	25.0	19.17	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMOS						Co-ordinates	
Time (hh:mm)	8:52-8:54						Northing	Easting
Water Depth (m)	20.4						22.21.041	113.55.156
Monitoring Depth (m)	1.0		10.2		19.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.0	23.0	23.99	-
Salinity (ppt)	34.5	34.4	34.5	34.4	34.4	34.5	34.46	-
pH	8.3	8.2	8.3	8.2	8.2	8.2	8.22	-
D.O. Saturation (%)	79.4	80.0	79.4	80.9	83.1	79.4	80.37	-
D.O. (mg/L)	5.6	5.6	5.6	5.7	5.9	5.6	5.65	5.72
Turbidity (NTU)	26.3	26.7	35.1	34.1	35.6	33.9	31.95	-
SS (mg/L)	17.0	18.0	26.0	23.0	22.0	20.0	21.00	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	C3 (NM6)						Co-ordinates	
Time (hh:mm)	10:09-10:10						Northing	Easting
Water Depth (m)	6.9						22.21.723	113.55.505
Monitoring Depth (m)	1.0		3.5		5.9			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.2	21.2	21.2	21.2	21.1	21.2	21.19	-
Salinity (ppt)	34.3	34.4	34.3	34.4	34.3	34.4	34.36	-
pH	8.3	8.3	8.2	8.3	8.2	8.3	8.24	-
D.O. Saturation (%)	95.5	92.2	96.8	92.5	99.2	93.8	95.00	-
D.O. (mg/L)	6.9	6.7	7.0	6.7	7.2	6.8	6.90	7.02
Turbidity (NTU)	18.5	18.2	20.7	20.6	23.6	23.6	20.90	-
SS (mg/L)	16.0	14.0	18.0	20.0	18.0	14.0	16.33	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMO6						Co-ordinates	
Time (hh:mm)	8:41-8:43						Northing	Easting
Water Depth (m)	19.4						22.21.723	113.55.505
Monitoring Depth (m)	1.0		9.7		18.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	23.0	23.0	23.0	23.0	23.00	-
Salinity (ppt)	34.4	34.5	34.5	34.5	34.4	34.5	34.45	-
pH	8.2	8.3	8.2	8.3	8.1	8.2	8.21	-
D.O. Saturation (%)	84.9	84.1	85.8	84.3	89.9	84.4	85.57	-
D.O. (mg/L)	6.0	5.9	6.0	5.9	6.3	5.9	6.02	6.13
Turbidity (NTU)	19.9	19.7	21.6	21.5	23.3	24.2	21.73	-
SS (mg/L)	17.0	20.0	17.0	18.0	21.0	25.0	19.67	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMO1						Co-ordinates	
Time (hh:mm)	9:04-9:05						Northing	Easting
Water Depth (m)	19.2						22.21.731	113.54.582
Monitoring Depth (m)	1.0		9.6		18.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	22.6	22.8	22.9	22.9	22.90	-
Salinity (ppt)	34.5	30.4	34.5	34.0	33.5	34.1	33.50	-
pH	8.2	8.2	8.2	8.2	8.2	8.1	8.18	-
D.O. Saturation (%)	79.0	78.5	78.4	81.4	78.7	84.2	80.03	-
D.O. (mg/L)	5.6	5.7	5.6	5.8	5.6	5.9	5.67	5.76
Turbidity (NTU)	18.0	18.5	20.1	20.0	21.3	21.1	19.83	-
SS (mg/L)	18.0	20.0	18.0	15.0	15.0	17.0	17.17	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	MPB1						Co-ordinates	
Time (hh:mm)	9:45-9:46						Northing	Easting
Water Depth (m)	9.4						22.21.331	113.54.843
Monitoring Depth (m)	1.0		4.7		8.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	21.4	21.3	21.3	21.4	21.3	21.35	-
Salinity (ppt)	34.1	34.2	33.9	34.1	34.0	33.9	34.04	-
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.23	-
D.O. Saturation (%)	85.0	83.5	84.0	86.3	84.6	88.7	85.35	-
D.O. (mg/L)	6.2	6.1	6.1	6.3	6.1	6.5	6.20	6.30
Turbidity (NTU)	26.0	26.1	29.4	29.3	26.5	26.2	27.25	-
SS (mg/L)	32.0	37.0	20.0	23.0	24.0	25.0	26.67	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMO2						Co-ordinates	
Time (hh:mm)	9:14-9:15						Northing	Easting
Water Depth (m)	14.0						22.21.331	113.54.843
Monitoring Depth (m)	1.0		7.0		13.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	23.0	23.0	22.5	22.4	22.6	22.3	22.64	-
Salinity (ppt)	34.5	34.5	34.6	34.4	34.3	34.4	34.44	-
pH	8.2	8.3	8.3	8.2	8.3	8.2	8.25	-
D.O. Saturation (%)	79.2	78.6	78.4	81.0	78.4	82.2	79.63	-
D.O. (mg/L)	5.6	5.5	5.6	5.8	5.6	5.9	5.64	5.71
Turbidity (NTU)	18.4	18.3	19.1	19.4	20.5	20.8	19.42	-
SS (mg/L)	12.0	16.0	24.0	22.0	17.0	14.0	17.50	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	MPB2						Co-ordinates	
Time (hh:mm)	9:55-9:56						Northing	Easting
Water Depth (m)	9.2						22.21.331	113.54.843
Monitoring Depth (m)	1.0		4.6		8.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.3	21.3	21.3	21.3	21.3	21.4	21.32	-
Salinity (ppt)	31.9	34.1	34.2	34.2	34.2	34.2	33.79	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-
D.O. Saturation (%)	82.7	82.2	82.4	83.1	82.7	83.2	82.72	-
D.O. (mg/L)	6.1	6.0	6.0	6.0	6.0	6.0	6.02	6.02
Turbidity (NTU)	29.3	30.3	32.4	31.1	31.7	31.1	30.98	-
SS (mg/L)	24.0	27.0	18.0	21.0	18.0	20.0	21.33	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMO3						Co-ordinates	
Time (hh:mm)							Northing	Easting
Water Depth (m)								
Monitoring Depth (m)								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-
Remarks								

Station	MP						Co-ordinates	
Time (hh:mm)	9:32-9:33						Northing	Easting
Water Depth (m)	5.4							
Monitoring Depth (m)	1.0		2.7		4.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.7	21.6	-	-	21.5	21.6	21.61	-
Salinity (ppt)	33.6	33.8	-	-	33.7	33.8	33.71	-
pH	8.1	8.1	-	-	8.0	8.1	8.08	-
D.O. Saturation (%)	84.6	82.0	-	-	84.1	83.1	83.45	-
D.O. (mg/L)	6.1	5.9	-	-	6.1	6.0	6.04	6.06
Turbidity (NTU)	17.0	17.0	-	-	17.5	17.0	17.13	-
SS (mg/L)	18.0	20.0	-	-	12.0	13.0	15.75	-
Remarks	Derrick lighter CM38 (B21601V) and dredger were in operation.							

Station	IMO4						Co-ordinates	
Time (hh:mm)							Northing	Easting
Water Depth (m)								
Monitoring Depth (m)								
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-
Remarks								

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		IMOS		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	7.0	7.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.0	7.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	27.2	27.2	N	N	N	N	-	-	-	-	Y	N	N	N	N	N	Y	N	N	N
SS (Depth-averaged)	24.0	37.0	23.1	23.1	N	N	N	N	-	-	-	-	N	N	N	N	Y	N	N	N	N	N

Sampling Date	11/19/09
Weather & Ambient Temperature	Fine, 15C

Mid-Flood

Station		C1 (NM3)						Co-ordinates	
Time (hh:mm)		9:11-9:14						Northing	
Water Depth (m)		16.4						Easting	
Monitoring Depth (m)		1.0		8.2		15.4		22.22.030 113.55.035	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.3	22.3	22.3	22.3	22.2	22.2	22.38	-	
Salinity (ppt)	34.4	34.4	34.3	34.4	34.3	34.3	34.35	-	
pH	8.2	8.2	8.2	8.2	8.1	8.1	8.17	-	
D.O. Saturation (%)	102.6	103.9	103.1	103.9	103.5	104.7	103.62	-	
D.O. (mg/L)	7.3	7.4	7.3	7.4	7.4	7.5	7.38	7.42	
Turbidity (NTU)	6.3	5.9	7.2	7.5	9.6	9.4	7.65	-	
SS (mg/L)	22.0	21.0	17.0	16.0	19.0	18.0	18.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM05						Co-ordinates	
Time (hh:mm)		9:35-9:38						Northing	
Water Depth (m)		21.4						Easting	
Monitoring Depth (m)		1.0		10.7		20.4		22.22.030 113.55.035	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.0	22.0	21.9	22.0	22.04	-	
Salinity (ppt)	34.6	34.6	34.5	34.5	34.4	34.4	34.50	-	
pH	8.3	8.3	8.3	8.2	8.2	8.2	8.24	-	
D.O. Saturation (%)	77.4	78.0	76.8	77.1	76.1	76.3	76.95	-	
D.O. (mg/L)	5.5	5.6	5.5	5.5	5.5	5.5	5.50	5.47	
Turbidity (NTU)	8.8	9.1	10.4	11.1	14.5	15.1	11.50	-	
SS (mg/L)	17.0	20.0	19.0	20.0	21.0	24.0	20.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		C3 (NM6)						Co-ordinates	
Time (hh:mm)		10:55-10:57						Northing	
Water Depth (m)		6.2						Easting	
Monitoring Depth (m)		1.0		3.1		5.2		22.21.676 113.55.580	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.8	21.8	21.8	21.8	21.8	21.79	-	
Salinity (ppt)	34.4	34.4	34.5	34.5	34.6	34.6	34.51	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.28	-	
D.O. Saturation (%)	90.5	91.4	91.8	90.9	92.1	92.1	91.47	-	
D.O. (mg/L)	6.5	6.6	6.6	6.5	6.6	6.6	6.57	6.62	
Turbidity (NTU)	3.9	3.8	4.0	4.0	4.9	4.6	4.23	-	
SS (mg/L)	20.0	17.0	17.0	14.0	18.0	15.0	16.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM06						Co-ordinates	
Time (hh:mm)		9:23-9:25						Northing	
Water Depth (m)		18.8						Easting	
Monitoring Depth (m)		1.0		9.4		17.8		22.21.676 113.55.580	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.3	22.1	22.0	22.0	22.0	22.10	-	
Salinity (ppt)	34.5	34.6	34.5	34.5	34.4	34.4	34.47	-	
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.21	-	
D.O. Saturation (%)	97.5	97.5	98.6	98.3	98.3	99.1	98.22	-	
D.O. (mg/L)	7.0	6.9	7.1	7.0	7.0	7.1	7.01	7.06	
Turbidity (NTU)	9.8	9.7	11.2	11.8	13.5	13.6	11.60	-	
SS (mg/L)	21.0	26.0	24.0	28.0	28.0	23.0	24.67	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM01						Co-ordinates	
Time (hh:mm)		10:02-10:04						Northing	
Water Depth (m)		18.8						Easting	
Monitoring Depth (m)		1.0		9.4		17.8		22.21.709 113.54.520	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.9	21.9	21.9	21.9	21.8	21.8	21.88	-	
Salinity (ppt)	34.5	34.5	34.5	34.5	34.4	34.4	34.44	-	
pH	8.3	8.3	8.3	8.3	8.2	8.2	8.26	-	
D.O. Saturation (%)	77.2	77.9	76.4	76.6	76.9	77.1	77.02	-	
D.O. (mg/L)	5.5	5.6	5.5	5.5	5.5	5.6	5.52	5.54	
Turbidity (NTU)	10.8	11.2	15.9	15.7	19.2	18.1	15.15	-	
SS (mg/L)	26.0	31.0	18.0	21.0	33.0	29.0	26.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		10:24-10:27						Northing	
Water Depth (m)		7.8						Easting	
Monitoring Depth (m)		1.0		3.9		6.8		22.21.676 113.55.580	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.8	21.6	21.6	21.6	21.6	21.64	-	
Salinity (ppt)	34.2	34.2	34.3	34.3	34.3	34.3	34.27	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	
D.O. Saturation (%)	78.0	78.1	78.3	78.1	79.2	78.4	78.35	-	
D.O. (mg/L)	5.6	5.6	5.7	5.6	5.7	5.7	5.65	5.68	
Turbidity (NTU)	10.7	10.3	13.5	13.7	16.6	16.9	13.62	-	
SS (mg/L)	22.0	27.0	19.0	19.0	23.0	17.0	20.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM02						Co-ordinates	
Time (hh:mm)		9:50-9:53						Northing	
Water Depth (m)		14.6						Easting	
Monitoring Depth (m)		1.0		7.3		13.6		22.21.378 113.54.840	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.9	21.9	21.6	21.6	21.6	21.6	21.71	-	
Salinity (ppt)	34.5	34.5	34.6	34.6	34.6	34.6	34.50	-	
pH	8.3	8.3	8.3	8.3	8.2	8.2	8.25	-	
D.O. Saturation (%)	74.8	75.2	74.3	74.7	75.1	75.2	74.88	-	
D.O. (mg/L)	5.4	5.4	5.4	5.4	5.4	5.4	5.38	5.41	
Turbidity (NTU)	5.5	5.6	7.4	7.1	8.4	8.2	7.03	-	
SS (mg/L)	19.0	19.0	24.0	25.0	24.0	20.0	21.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		10:36-10:38						Northing	
Water Depth (m)		8.2						Easting	
Monitoring Depth (m)		1.0		4.1		7.2		22.21.676 113.55.580	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.2	21.2	20.9	20.8	20.7	20.7	20.92	-	
Salinity (ppt)	34.3	34.4	34.4	34.4	34.4	34.4	34.39	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.27	-	
D.O. Saturation (%)	84.8	84.9	85.2	85.4	86.6	85.7	85.43	-	
D.O. (mg/L)	6.2	6.2	6.2	6.3	6.3	6.3	6.24	6.31	
Turbidity (NTU)	11.2	11.5	14.6	14.3	16.8	17.0	14.23	-	
SS (mg/L)	31.0	27.0	24.0	19.0	24.0	24.0	24.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM03						Co-ordinates	
Time (hh:mm)		-						Northing	
Water Depth (m)		-						Easting	
Monitoring Depth (m)		-		-		-		-	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		10:15-10:16						Northing	
Water Depth (m)		5.1						Easting	
Monitoring Depth (m)		1.0		2.6		4.1		22.21.676 113.55.580	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.8	-	-	21.8	21.8	21.82	-	
Salinity (ppt)	34.1	34.2	-	-	34.0	34.0	34.06	-	
pH	8.2	8.2	-	-	8.2	8.2	8.22	-	
D.O. Saturation (%)	74.3	74.8	-	-	75.1	74.6	74.70	-	
D.O. (mg/L)	5.3	5.4	-	-	5.4	5.4	5.38	5.39	
Turbidity (NTU)	8.7	8.9	-	-	10.6	10.2	9.60	-	
SS (mg/L)	18.0	15.0	-	-	16.0	14.0	15.25	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM04						Co-ordinates	
Time (hh:mm)		-						Northing	
Water Depth (m)		-						Easting	
Monitoring Depth (m)		-		-		-		-	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IM01		IM02		IM03		IM04		IM05		IM06		MPB1		MPB2		MP		
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	
DO (Bottom)	3.3	2.5	7.0	7.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.0																				

Sampling Date	11/20/09
Weather & Ambient Temperature	Sunny, 15C

Mid-Flood

Station		C1 (NM3)						Co-ordinates	
Time (hh:mm)		9:44-9:46						Northing	
Water Depth (m)		16.0						Easting	
Monitoring Depth (m)		1.0		8.0		15.0		22.21.989 113.55.229	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	22.0	22.0	22.0	21.9	21.9	21.9	22.0	21.96	-
Salinity (ppt)	34.5	34.5	34.5	34.4	34.4	34.4	34.4	34.44	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.22	-
D.O. Saturation (%)	107.9	106.0	107.1	108.5	109.6	106.7	107.63	-	-
D.O. (mg/L)	7.7	7.6	7.7	7.8	7.9	7.6	7.71	7.75	-
Turbidity (NTU)	17.1	17.6	22.1	22.1	24.7	23.0	21.10	-	-
SS (mg/L)	14.0	11.0	12.0	13.0	15.0	12.83	-	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMOS						Co-ordinates	
Time (hh:mm)		10:09-10:10						Northing	
Water Depth (m)		19.8						Easting	
Monitoring Depth (m)		1.0		9.9		18.8		22.21.989 113.55.229	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.8	21.8	21.7	21.7	21.7	21.7	21.7	21.72	-
Salinity (ppt)	34.6	34.6	34.5	34.6	34.6	34.6	34.6	34.67	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.30	-
D.O. Saturation (%)	90.2	88.8	91.1	89.1	91.7	89.4	90.05	-	-
D.O. (mg/L)	6.5	6.4	6.6	6.4	6.6	6.4	6.48	6.52	-
Turbidity (NTU)	21.8	21.2	26.2	26.5	27.5	26.4	24.93	-	-
SS (mg/L)	19.0	19.0	17.0	20.0	18.0	18.0	18.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		C3 (NM6)						Co-ordinates	
Time (hh:mm)		11:17-11:18						Northing	
Water Depth (m)		7.1						Easting	
Monitoring Depth (m)		1.0		3.6		6.1		22.21.698 113.55.611	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.3	21.3	21.3	21.3	21.3	21.3	21.33	-	-
Salinity (ppt)	34.5	34.6	33.0	34.5	34.5	34.5	34.26	-	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	-
D.O. Saturation (%)	96.0	95.6	99.4	95.1	101.2	95.9	97.20	-	-
D.O. (mg/L)	7.0	6.9	7.3	6.9	7.3	6.9	7.05	7.14	-
Turbidity (NTU)	16.5	16.8	17.1	17.2	18.2	18.7	17.49	-	-
SS (mg/L)	16.0	14.0	18.0	16.0	15.0	18.0	16.17	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		17.6						Northing	
Water Depth (m)		17.6						Easting	
Monitoring Depth (m)		1.0		8.8		16.6		22.21.698 113.55.611	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	21.9	21.8	21.8	21.8	21.7	21.73	-	-
Salinity (ppt)	34.6	34.5	34.3	34.5	34.4	34.3	34.45	-	-
pH	8.1	8.2	8.2	8.2	8.2	8.2	8.19	-	-
D.O. Saturation (%)	107.7	102.6	106.7	104.7	106.5	106.6	106.13	-	-
D.O. (mg/L)	7.8	7.4	7.7	7.5	7.7	7.8	7.63	7.74	-
Turbidity (NTU)	21.1	21.5	25.0	25.0	26.6	26.6	24.30	-	-
SS (mg/L)	23.0	25.0	22.0	23.0	23.0	27.0	23.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		10:29-10:31						Northing	
Water Depth (m)		17.2						Easting	
Monitoring Depth (m)		1.0		8.6		16.2		22.21.622 113.54.588	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.5	21.5	21.5	21.5	21.5	21.5	21.53	-	-
Salinity (ppt)	34.6	34.5	34.5	33.6	34.5	34.6	34.38	-	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.30	-	-
D.O. Saturation (%)	85.1	85.0	87.7	85.6	85.8	89.0	86.37	-	-
D.O. (mg/L)	6.1	6.1	6.3	6.2	6.2	6.4	6.24	6.31	-
Turbidity (NTU)	20.3	20.7	24.6	24.0	24.2	23.3	22.85	-	-
SS (mg/L)	22.0	19.0	18.0	16.0	14.0	14.0	17.17	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		10:53-10:54						Northing	
Water Depth (m)		9.2						Easting	
Monitoring Depth (m)		1.0		4.6		8.2		22.21.362 113.54.927	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	21.4	21.4	21.4	21.4	21.4	21.36	-	-
Salinity (ppt)	34.2	34.2	34.2	33.8	34.2	34.2	34.14	-	-
pH	8.3	8.3	8.2	8.3	8.3	8.3	8.25	-	-
D.O. Saturation (%)	89.5	93.9	97.4	90.3	91.2	102.5	94.13	-	-
D.O. (mg/L)	6.5	6.8	7.1	6.6	6.6	7.4	6.83	7.03	-
Turbidity (NTU)	17.1	17.0	18.6	18.7	19.8	19.7	18.48	-	-
SS (mg/L)	16.0	16.0	16.0	17.0	17.0	18.0	16.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		10:19-10:20						Northing	
Water Depth (m)		15.4						Easting	
Monitoring Depth (m)		1.0		7.7		14.4		22.21.362 113.54.927	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.6	21.6	21.6	21.6	21.58	-	-
Salinity (ppt)	34.5	34.5	34.4	34.4	34.5	34.3	34.43	-	-
pH	8.2	8.3	8.3	8.2	8.3	8.2	8.24	-	-
D.O. Saturation (%)	93.9	94.2	94.0	95.4	93.6	96.5	94.60	-	-
D.O. (mg/L)	6.8	6.8	6.8	6.9	6.8	7.0	6.82	6.86	-
Turbidity (NTU)	19.1	19.8	20.5	21.6	22.0	22.7	20.95	-	-
SS (mg/L)	24.0	20.0	19.0	17.0	14.0	17.0	18.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		11:02-11:03						Northing	
Water Depth (m)		8.8						Easting	
Monitoring Depth (m)		1.0		4.4		7.8		22.21.362 113.54.927	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.4	21.4	21.4	21.4	21.4	21.4	21.41	-	-
Salinity (ppt)	34.2	34.2	34.2	34.3	34.3	34.3	34.36	-	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	-
D.O. Saturation (%)	88.7	91.2	89.3	92.7	89.6	95.5	91.17	-	-
D.O. (mg/L)	6.4	6.6	6.5	6.7	6.5	6.9	6.60	6.70	-
Turbidity (NTU)	16.4	16.2	17.1	17.6	18.1	18.6	17.33	-	-
SS (mg/L)	16.0	16.0	17.0	15.0	14.0	13.0	15.17	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)		10:45-10:46						Northing	
Water Depth (m)		5.6						Easting	
Monitoring Depth (m)		1.0		2.8		4.6		22.21.362 113.54.927	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		10:45-10:46						Northing	
Water Depth (m)		5.6						Easting	
Monitoring Depth (m)		1.0		2.8		4.6		22.21.362 113.54.927	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	21.6	21.6	21.5	21.6	21.6	21.6	21.56	-	-
Salinity (ppt)	34.2	34.1	34.1	34.3	34.3	34.1	34.18	-	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	-
D.O. Saturation (%)	87.4	86.5	86.5	88.1	86.5	86.6	86.93	-	-
D.O. (mg/L)	6.3	6.3	6.3	6.4	6.3	6.3	6.28	6.26	-
Turbidity (NTU)	21.0	21.5	22.4	22.3	22.5	22.0	22.03	-	-
SS (mg/L)	20.0	18.0	22.0	19.0	22.0	19.0	20.00	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO4						Co-ordinates	
Time (hh:mm)		-						Northing	
Water Depth (m)		-						Easting	
Monitoring Depth (m)		-		-		-		-	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		IMOS		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	7.4	7.4	N	N	N	N	-	-												

Sampling Date	11/21/09
Weather & Ambient Temperature	Cloudy, 23C

Mid-Ebb

Station		C2 (NM5)						Co-ordinates	
Time (hh:mm)		15:22-15:24						Northing	Easting
Water Depth (m)		19.6						22.21.977	113.55.202
Monitoring Depth (m)		1.0		9.8		18.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.2	22.2	22.2	22.2	22.20	-	
Salinity (ppt)	34.4	34.5	34.5	34.4	34.5	34.5	34.47	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.24	-	
D.O. Saturation (%)	70.5	65.0	66.6	71.1	67.1	71.5	68.63	-	
D.O. (mg/L)	5.0	4.6	4.8	5.1	4.8	5.1	4.89	4.94	
Turbidity (NTU)	13.2	12.9	20.6	20.0	20.8	21.7	18.20	-	
SS (mg/L)	21	18	23	26	25	22	22.50	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO5						Co-ordinates	
Time (hh:mm)		16:03-16:05						Northing	Easting
Water Depth (m)		20.6						22.21.977	113.55.202
Monitoring Depth (m)		1.0		10.3		19.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.6	21.6	21.5	21.5	21.4	21.4	21.50	-	
Salinity (ppt)	34.6	34.5	34.7	34.6	34.6	34.7	34.61	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.27	-	
D.O. Saturation (%)	55.1	55.5	54.9	54.3	57.7	56.1	55.60	-	
D.O. (mg/L)	4.0	4.0	4.0	3.9	4.2	4.1	4.01	4.11	
Turbidity (NTU)	10.8	10.6	17.4	17.9	20.5	20.8	16.33	-	
SS (mg/L)	14	16	14	15	15	15	14.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		15:41-15:42						Northing	Easting
Water Depth (m)		14.6						22.21.283	113.54.883
Monitoring Depth (m)		1.0		7.3		13.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.4	21.4	21.2	21.2	21.2	21.2	21.26	-	
Salinity (ppt)	34.5	34.6	34.6	34.5	34.6	34.4	34.55	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.22	-	
D.O. Saturation (%)	63.7	62.4	63.0	62.4	65.0	63.8	63.38	-	
D.O. (mg/L)	4.6	4.5	4.6	4.5	4.7	4.6	4.60	4.68	
Turbidity (NTU)	10.1	10.3	14.9	14.8	18.9	18.6	14.60	-	
SS (mg/L)	13	11	13	14	17	19	14.50	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		16:14-16:16						Northing	Easting
Water Depth (m)		18.0						22.21.678	113.55.648
Monitoring Depth (m)		1.0		9.0		17.0		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.6	21.6	21.7	21.7	21.7	21.7	21.65	-	
Salinity (ppt)	34.5	34.6	34.6	34.5	34.5	34.6	34.54	-	
pH	8.3	8.3	8.3	8.2	8.2	8.3	8.26	-	
D.O. Saturation (%)	55.6	54.6	55.4	57.9	58.6	56.9	56.50	-	
D.O. (mg/L)	4.0	3.9	4.0	4.2	4.2	4.1	4.07	4.16	
Turbidity (NTU)	10.4	10.6	17.7	17.5	20.3	20.8	16.22	-	
SS (mg/L)	16	16	18	17	18	18	17.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		15:52-15:53						Northing	Easting
Water Depth (m)		13.5						22.21.470	113.54.462
Monitoring Depth (m)		1.0		6.9		12.8		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.1	21.1	21.1	21.1	21.0	21.0	21.06	-	
Salinity (ppt)	34.6	34.6	34.7	34.6	34.6	34.6	34.63	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	
D.O. Saturation (%)	67.2	68.6	68.0	68.8	72.5	68.7	68.97	-	
D.O. (mg/L)	4.9	5.0	4.9	5.0	5.3	5.0	5.02	5.14	
Turbidity (NTU)	10.7	10.5	18.9	18.6	20.2	20.7	16.60	-	
SS (mg/L)	12	13	10	10	12	11	11.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		14:51-14:52						Northing	Easting
Water Depth (m)		7.6						22.21.678	113.55.648
Monitoring Depth (m)		1.0		3.8		6.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.0	21.0	21.1	21.0	21.1	21.1	21.05	-	
Salinity (ppt)	34.3	34.1	34.3	34.1	34.2	34.2	34.19	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	62.5	62.1	62.1	62.4	62.4	62.3	62.30	-	
D.O. (mg/L)	4.6	4.5	4.5	4.6	4.6	4.5	4.54	4.55	
Turbidity (NTU)	16.1	15.7	18.5	19.0	20.8	20.4	18.42	-	
SS (mg/L)	27.0	29.0	29.0	34.0	30.0	27.0	29.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		MPB2						Co-ordinates	
Time (hh:mm)		14:41-14:43						Northing	Easting
Water Depth (m)		8.8							
Monitoring Depth (m)		1.0		4.4		7.8		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.1	21.0	21.1	21.1	21.1	21.1	21.05	-	
Salinity (ppt)	34.2	34.3	34.2	34.2	32.6	34.3	33.95	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	61.5	62.1	61.6	61.9	61.6	61.9	61.77	-	
D.O. (mg/L)	4.5	4.5	4.5	4.5	4.5	4.5	4.51	4.52	
Turbidity (NTU)	13.1	13.5	17.2	16.8	22.5	23.1	17.70	-	
SS (mg/L)	26	25	22	23	27	29	25.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO4						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		15:02-15:03						Northing	Easting
Water Depth (m)		5.5							
Monitoring Depth (m)		1.0		2.7		4.5		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.1	21.1	21.1	21.1	21.1	21.1	21.09	-	
Salinity (ppt)	34.3	34.2	34.3	34.1	34.1	34.2	34.19	-	
pH	8.2	8.2	8.2	8.1	8.1	8.2	8.15	-	
D.O. Saturation (%)	65.3	66.4	65.7	68.3	70.1	66.0	66.97	-	
D.O. (mg/L)	4.8	4.8	4.8	5.0	5.1	4.8	4.88	4.96	
Turbidity (NTU)	10.5	10.6	11.2	10.9	13.2	12.6	11.50	-	
SS (mg/L)	14	12	12	14	16	14	13.67	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	4.9	4.9	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	4.9	4.9	N	N	N	N	-	-	-	-	Y	N	Y	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	23.7	23.7	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	29.3	29.3	N	N	N	N	-	-	-	-	N	N	N	N	Y	N	N	N	N	N

Sampling Date	11/23/09
Weather & Ambient Temperature	Fine, 14C

Station		C2 (NM5)						Co-ordinates			
Time (hh:mm)		4:57-5:00						Northing		Easting	
Water Depth (m)		20.0						22.21.493		113.54.434	
Monitoring Depth (m)		1.0		10.0		19.0		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	21.2	21.2	20.9	20.9	20.5	20.5	20.85				
Salinity (ppt)	34.6	34.6	34.7	34.7	34.8	34.8	34.69				
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.27				
D.O. Saturation (%)	79.7	80.1	81.7	81.9	83.0	82.7	81.52				
D.O. (mg/L)	5.8	5.8	6.0	6.0	6.1	6.1	5.94	6.08			
Turbidity (NTU)	2.4	2.3	3.7	3.8	4.9	4.8	3.65				
SS (mg/L)	12	13	19	16	14	15	14.83				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		IMO1						Co-ordinates			
Time (hh:mm)		4:42-4:45						Northing		Easting	
Water Depth (m)		11.8						22.21.493		113.54.434	
Monitoring Depth (m)		1.0		5.9		10.8		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	21.3	21.3	21.2	21.2	21.0	21.0	21.16				
Salinity (ppt)	34.7	34.6	34.6	34.6	34.6	34.6	34.63				
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.23				
D.O. Saturation (%)	79.0	79.2	79.6	80.5	80.4	81.5	80.03				
D.O. (mg/L)	5.7	5.7	5.8	5.8	5.9	5.9	5.81	5.90			
Turbidity (NTU)	1.4	1.3	2.1	1.8	2.5	2.3	1.90				
SS (mg/L)	10	9	8	6	8	9	8.33				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		IMO2						Co-ordinates			
Time (hh:mm)		4:34-4:37						Northing		Easting	
Water Depth (m)		10.4						22.21.222		113.54.666	
Monitoring Depth (m)		1.0		5.2		9.4		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	21.4	21.4	21.3	21.3	20.3	20.3	21.01				
Salinity (ppt)	34.6	34.6	34.7	34.7	34.7	34.7	34.66				
pH	8.3	8.2	8.2	8.2	8.2	8.2	8.21				
D.O. Saturation (%)	81.1	81.1	82.1	81.9	82.2	81.7	81.68				
D.O. (mg/L)	5.9	5.9	5.9	6.0	6.1	6.0	5.95	6.04			
Turbidity (NTU)	1.3	1.2	1.6	1.5	2.5	2.7	1.80				
SS (mg/L)	10	9	9	8	9	8	8.83				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		IMO3						Co-ordinates			
Time (hh:mm)								Northing		Easting	
Water Depth (m)											
Monitoring Depth (m)		1.0		5.2		9.4		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	-	-	-	-	-	-	-				
Salinity (ppt)	-	-	-	-	-	-	-				
pH	-	-	-	-	-	-	-				
D.O. Saturation (%)	-	-	-	-	-	-	-				
D.O. (mg/L)	-	-	-	-	-	-	-				
Turbidity (NTU)	-	-	-	-	-	-	-				
SS (mg/L)	-	-	-	-	-	-	-				
Remarks											

Station		IMO4						Co-ordinates			
Time (hh:mm)								Northing		Easting	
Water Depth (m)											
Monitoring Depth (m)		1.0		5.2		9.4		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	-	-	-	-	-	-	-				
Salinity (ppt)	-	-	-	-	-	-	-				
pH	-	-	-	-	-	-	-				
D.O. Saturation (%)	-	-	-	-	-	-	-				
D.O. (mg/L)	-	-	-	-	-	-	-				
Turbidity (NTU)	-	-	-	-	-	-	-				
SS (mg/L)	-	-	-	-	-	-	-				
Remarks											

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	6.1	6.1	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.9	5.9	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	4.7	4.7	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	19.3	19.3	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N

Mid-Ebb

Station		IMO5						Co-ordinates			
Time (hh:mm)		4:19-4:21						Northing		Easting	
Water Depth (m)		21.0						22.22.997		113.55.170	
Monitoring Depth (m)		1.0		10.5		20.0		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	21.3	21.3	20.8	20.8	20.5	20.5	20.84				
Salinity (ppt)	34.5	34.5	34.6	34.6	34.6	34.7	34.59				
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20				
D.O. Saturation (%)	87.7	87.1	87.6	88.4	89.2	88.6	88.10				
D.O. (mg/L)	6.4	6.3	6.4	6.5	6.6	6.5	6.43	6.53			
Turbidity (NTU)	3.7	3.4	5.1	5.5	6.2	6.5	5.07				
SS (mg/L)	8	8	8	9	12	11	9.33				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		IMO6						Co-ordinates			
Time (hh:mm)		4:06-4:09						Northing		Easting	
Water Depth (m)		18.0						22.21.714		113.55.641	
Monitoring Depth (m)		1.0		9.0		17.0		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	21.6	21.6	20.9	20.8	20.4	20.4	20.95				
Salinity (ppt)	34.6	34.5	34.6	34.6	34.6	34.6	34.59				
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20				
D.O. Saturation (%)	93.3	93.1	93.9	93.9	94.1	94.6	93.82				
D.O. (mg/L)	6.7	6.7	6.9	6.9	6.9	7.0	6.84	6.95			
Turbidity (NTU)	3.0	2.9	4.9	4.8	5.6	5.3	4.42				
SS (mg/L)	11	10	11	12	11	14	11.50				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		MPB1						Co-ordinates			
Time (hh:mm)		5:24-5:27						Northing		Easting	
Water Depth (m)		7.8						22.21.714		113.55.641	
Monitoring Depth (m)		1.0		3.9		6.8		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	20.8	20.8	20.8	20.8	20.7	20.7	20.76				
Salinity (ppt)	34.5	34.5	34.6	34.6	34.6	34.6	34.55				
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.27				
D.O. Saturation (%)	75.8	76.0	76.6	76.1	77.3	75.9	76.28				
D.O. (mg/L)	5.5	5.6	5.6	5.6	5.7	5.7	5.60	5.66			
Turbidity (NTU)	3.3	3.4	4.1	4.0	5.5	5.7	4.33				
SS (mg/L)	8	9	8	9	10	11	9.17				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		MPB2						Co-ordinates			
Time (hh:mm)		5:36-5:38						Northing		Easting	
Water Depth (m)		8.0						22.21.714		113.55.641	
Monitoring Depth (m)		1.0		4.0		7.0		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	20.9	20.9	20.8	20.8	20.8	20.8	20.82				
Salinity (ppt)	34.7	34.7	34.6	34.7	34.6	34.6	34.66				
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.30				
D.O. Saturation (%)	72.7	73.0	74.9	74.4	75.3	75.9	74.37				
D.O. (mg/L)	5.4	5.3	5.5	5.4	5.5	5.6	5.45	5.53			
Turbidity (NTU)	3.0	3.2	4.2	4.1	5.4	5.2	4.18				
SS (mg/L)	8	9	11	10	10	9	9.50				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Station		MP						Co-ordinates			
Time (hh:mm)		5:13-5:15						Northing		Easting	
Water Depth (m)		4.8						22.21.714		113.55.641	
Monitoring Depth (m)		1.0		2.4		3.8		Depth-averaged		Bottom	
Trial		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2				
Water Temperature (°C)	20.9	20.9	20.9	20.9	20.9	20.9	20.88				
Salinity (ppt)	34.4	34.4	34.5	34.5	34.6	34.6	34.52				
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.23				
D.O. Saturation (%)	79.2	78.5	78.8	80.3	79.3	81.2	79.55				
D.O. (mg/L)	5.8	5.8	5.8	5.9	5.9	5.9	5.84	5.90			
Turbidity (NTU)	3.4	3.3	3.6	3.7	4.1	3.9	3.67				
SS (mg/L)	11	11	10	10	10	9	10.17				
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.										

Sampling Date	11/24/2009
Weather & Ambient Temperature	Cloudy, 17C

Station	C2 (NM5)							Co-ordinates	
Time (hh:mm)	5:41-5:42							Northing	Easting
Water Depth (m)	20.2							22.22.112	113.55.179
Monitoring Depth (m)	1.0		10.1		19.2				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.4	22.3	22.3	22.3	22.3	22.3	22.34	-	
Salinity (ppt)	34.5	34.4	34.4	34.5	34.4	34.3	34.41	-	
pH	8.0	8.0	8.0	8.0	8.0	7.9	7.98	-	
D.O. Saturation (%)	98.0	101.4	103.9	98.6	100.0	108.9	101.80	-	
D.O. (mg/L)	6.9	7.2	7.4	7.0	7.1	7.7	7.22	7.41	
Turbidity (NTU)	7.4	8.4	12.7	10.7	11.3	11.9	10.40	-	
SS (mg/L)	12	13	12	14	9	10	11.67	-	
Remarks	Dredger was in operation.								

Station	IMO1							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station	IMO2							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station	IMO3							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station	IMO4							Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	7.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DO (Depth-averaged)	4.2	4.0	7.2	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity (Depth-averaged)	29.0	49.0	13.5	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS (Depth-averaged)	24.0	37.0	15.2	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Mid-Ebb

Station	IMO5							Co-ordinates	
Time (hh:mm)	6:20-6:22							Northing	Easting
Water Depth (m)	18.9							22.22.112	113.55.179
Monitoring Depth (m)	1.0		9.5		17.9				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.2	22.3	22.3	22.3	22.23	-	
Salinity (ppt)	34.4	34.4	34.3	33.0	34.5	34.5	34.17	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07	-	
D.O. Saturation (%)	76.0	75.9	76.0	75.9	76.0	76.1	75.98	-	
D.O. (mg/L)	5.4	5.4	5.4	5.5	5.4	5.4	5.42	5.42	
Turbidity (NTU)	7.2	6.6	14.0	13.5	16.0	15.8	12.18	-	
SS (mg/L)	12	10	10	8	12	10	10.33	-	
Remarks	Dredger was in operation.								

Station	IMO6							Co-ordinates	
Time (hh:mm)	6:34-6:35							Northing	Easting
Water Depth (m)	16.5							22.21.811	113.55.679
Monitoring Depth (m)	1.0		8.3		15.5				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.2	22.3	22.3	22.3	22.24	-	
Salinity (ppt)	34.4	34.4	34.0	34.3	34.4	34.5	34.31	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.07	-	
D.O. Saturation (%)	80.3	79.9	80.0	80.3	80.4	80.0	80.15	-	
D.O. (mg/L)	5.7	5.7	5.7	5.7	5.7	5.7	5.71	5.71	
Turbidity (NTU)	13.5	12.5	15.8	16.5	17.0	16.5	15.30	-	
SS (mg/L)	8	10	12	11	10	11	10.33	-	
Remarks	Dredger was in operation.								

Station	MPB1							Co-ordinates	
Time (hh:mm)	5:14-5:15							Northing	Easting
Water Depth (m)	7.8								
Monitoring Depth (m)	1.0		3.9		6.8				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	20.6	20.5	20.5	20.5	20.5	20.5	20.55	-	
Salinity (ppt)	34.1	34.1	34.0	30.5	34.1	34.1	33.49	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.09	-	
D.O. Saturation (%)	77.3	77.6	77.9	77.7	77.8	77.6	77.65	-	
D.O. (mg/L)	5.7	5.7	5.7	5.8	5.7	5.7	5.73	5.72	
Turbidity (NTU)	12.3	12.8	11.8	11.4	11.3	10.5	11.68	-	
SS (mg/L)	12	10	11	9	12	11	10.83	-	
Remarks	Dredger was in operation.								

Station	MPB2							Co-ordinates	
Time (hh:mm)	5:03-5:04							Northing	Easting
Water Depth (m)	8.3								
Monitoring Depth (m)	1.0		4.2		7.3				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	20.6	20.5	20.5	20.5	20.5	20.5	20.53	-	
Salinity (ppt)	33.0	34.1	34.1	32.2	34.1	34.1	33.60	-	
pH	8.1	8.1	8.1	8.1	8.1	8.1	8.09	-	
D.O. Saturation (%)	78.0	78.3	78.7	78.0	78.2	78.8	78.33	-	
D.O. (mg/L)	5.8	5.8	5.8	5.8	5.8	5.8	5.78	5.78	
Turbidity (NTU)	17.8	17.8	17.5	17.8	20.2	21.0	18.68	-	
SS (mg/L)	9	8	11	9	11	10	9.67	-	
Remarks	Dredger was in operation.								

Station	MP							Co-ordinates	
Time (hh:mm)	5:23-5:25							Northing	Easting
Water Depth (m)	4.9								
Monitoring Depth (m)	1.0		2.4		3.9				
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	20.9	20.9	20.8	20.9	20.9	20.8	20.86	-	
Salinity (ppt)	33.8	33.7	33.7	33.6	33.7	33.7	33.69	-	
pH	7.9	7.9	7.9	7.9	7.9	7.9	7.93	-	
D.O. Saturation (%)	77.2	77.5	78.2	78.2	77.4	78.2	77.78	-	
D.O. (mg/L)	5.7	5.7	5.7	5.7	5.7	5.7	5.71	5.71	
Turbidity (NTU)	8.9	9.3	9.7	9.7	9.0	9.7	9.38	-	
SS (mg/L)	9	10	12	13	10	12	11.00	-	
Remarks	Dredger was in operation.								

Sampling Date	11/28/2009
Weather & Ambient Temperature	Sunny, 20C

Station		C2 (NM5)						Co-ordinates	
Time (hh:mm)		10:34-10:35						Northing	Easting
Water Depth (m)		19.2						22.22.503	113.55.052
Monitoring Depth (m)		1.0		9.6		18.2		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.9	22.0	21.9	21.9	21.9	21.9	21.92	-	
Salinity (ppt)	34.4	34.3	34.4	34.4	34.4	34.5	34.39	-	
pH	7.9	7.9	7.9	7.8	7.9	7.8	7.85	-	
D.O. Saturation (%)	83.7	84.2	82.2	82.0	85.0	84.4	83.58	-	
D.O. (mg/L)	6.0	6.0	5.9	5.9	6.1	6.1	6.00	6.08	
Turbidity (NTU)	10.7	11.1	11.1	11.0	11.2	11.4	11.08	-	
SS (mg/L)	10	9	11	8	8	10	9.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		9:45-9:46						Northing	Easting
Water Depth (m)		21.2						22.22.421	113.54.920
Monitoring Depth (m)		1.0		10.6		20.2		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.9	21.8	21.7	21.7	21.7	21.6	21.74	-	
Salinity (ppt)	33.4	33.4	33.5	33.4	34.3	33.9	33.62	-	
pH	8.2	8.3	8.2	8.2	8.2	8.2	8.23	-	
D.O. Saturation (%)	91.6	89.4	87.2	86.2	87.4	88.7	88.42	-	
D.O. (mg/L)	6.6	6.5	6.3	6.2	6.3	6.4	6.39	6.36	
Turbidity (NTU)	11.3	11.9	12.1	12.6	12.7	12.9	12.25	-	
SS (mg/L)	9	6	9	8	9	9	8.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		9:34-9:35						Northing	Easting
Water Depth (m)		20.6						22.21.493	113.55.455
Monitoring Depth (m)		1.0		10.3		19.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	22.1	22.2	21.7	21.7	21.7	21.7	21.85	-	
Salinity (ppt)	34.0	34.0	34.4	34.3	34.4	34.5	34.25	-	
pH	8.4	8.2	8.2	8.4	8.2	8.2	8.27	-	
D.O. Saturation (%)	83.0	83.6	81.8	81.6	84.3	84.1	83.07	-	
D.O. (mg/L)	5.9	6.0	5.9	5.9	6.1	6.1	5.97	6.06	
Turbidity (NTU)	12.5	11.9	13.1	13.3	15.4	15.3	13.58	-	
SS (mg/L)	8.0	8.0	9.0	8.0	12.0	10.0	9.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		IMO4						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)								Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	6.1	6.1	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.0	6.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	14.4	14.4	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	12.1	12.1	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N

Mid-Ebb

Station		IMO5						Co-ordinates	
Time (hh:mm)		9:23-9:24						Northing	Easting
Water Depth (m)		22.2						22.22.503	113.55.052
Monitoring Depth (m)		1.0		11.1		21.2		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	22.3	22.2	22.0	22.0	21.8	21.9	22.02	-	
Salinity (ppt)	33.5	33.5	34.1	34.1	34.1	34.2	33.91	-	
pH	8.3	8.2	8.4	8.2	8.2	8.2	8.25	-	
D.O. Saturation (%)	86.7	85.8	83.9	84.7	83.8	87.0	85.32	-	
D.O. (mg/L)	6.2	6.2	6.0	6.1	6.0	6.3	6.13	6.14	
Turbidity (NTU)	13.5	13.4	13.4	13.8	13.6	13.6	13.55	-	
SS (mg/L)	12.0	14.0	10.0	12.0	11.0	12.0	11.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		9:12-9:13						Northing	Easting
Water Depth (m)		20.2						22.21.530	113.55.055
Monitoring Depth (m)		1.0		10.1		19.2		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	22.4	22.4	21.8	21.8	21.8	21.8	21.98	-	
Salinity (ppt)	33.9	33.9	33.9	34.2	34.3	34.3	34.09	-	
pH	8.0	8.0	8.0	8.0	8.1	8.0	8.02	-	
D.O. Saturation (%)	86.7	85.1	83.8	84.3	85.0	85.7	85.10	-	
D.O. (mg/L)	6.2	6.1	6.0	6.1	6.1	6.2	6.11	6.14	
Turbidity (NTU)	11.8	11.8	12.1	12.3	12.4	12.9	12.22	-	
SS (mg/L)	11.0	9.0	10.0	11.0	10.0	9.0	10.00	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		10:07-10:08						Northing	Easting
Water Depth (m)		7.4							
Monitoring Depth (m)		1.0		3.7		6.4		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.7	21.6	21.6	21.6	21.5	21.6	21.59	-	
Salinity (ppt)	32.1	32.1	32.2	32.3	34.1	34.2	32.81	-	
pH	8.3	8.3	8.3	8.2	8.2	8.2	8.24	-	
D.O. Saturation (%)	88.3	87.8	84.6	85.3	89.3	91.8	87.85	-	
D.O. (mg/L)	6.5	6.4	6.2	6.2	6.5	6.6	6.40	6.55	
Turbidity (NTU)	12.7	12.7	13.8	13.5	14.6	14.3	13.60	-	
SS (mg/L)	8.0	10.0	8.0	8.0	7.0	9.0	8.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		9:57-9:58						Northing	Easting
Water Depth (m)		8.6							
Monitoring Depth (m)		1.0		4.3		7.6		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.7	21.7	21.6	21.6	21.5	21.5	21.62	-	
Salinity (ppt)	33.3	33.4	33.4	33.4	34.1	33.6	33.52	-	
pH	8.3	8.3	8.3	8.3	8.2	8.3	8.26	-	
D.O. Saturation (%)	90.5	89.2	86.5	86.7	88.7	87.5	88.18	-	
D.O. (mg/L)	6.6	6.5	6.3	6.3	6.4	6.4	6.39	6.39	
Turbidity (NTU)	12.2	11.9	13.5	13.1	14.8	15.2	13.45	-	
SS (mg/L)	8.0	8.0	8.0	9.0	7.0	9.0	8.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MP						Co-ordinates	
Time (hh:mm)		10:16-10:17						Northing	Easting
Water Depth (m)		5.5							
Monitoring Depth (m)		1.0		2.7		4.5		Depth-averaged	Bottom
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2			
Water Temperature (°C)	21.7	21.6	21.6	21.6	21.5	21.5	21.59	-	
Salinity (ppt)	32.1	32.1	32.1	32.1	32.8	33.0	32.35	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.18	-	
D.O. Saturation (%)	91.2	91.3	90.5	89.9	89.8	91.2	90.65	-	
D.O. (mg/L)	6.7	6.7	6.6	6.6	6.6	6.6	6.62	6.60	
Turbidity (NTU)	11.8	12.0	11.9	12.4	13.0	13.6	12.45	-	
SS (mg/L)	13.0	10.0	7.0	9.0	8.0	8.0	9.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Sampling Date	11/28/2009
Weather & Ambient Temperature	Sunny, 23C

Mid-Flood

Station		C1 (NM3)						Co-ordinates	
Time (hh:mm)		16:00-16:01						Northing Easting	
Water Depth (m)		16.2						22.22.497 113.55.057	
Monitoring Depth (m)		1.0		8.1		15.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.9	21.9	21.9	21.9	21.8	21.8	21.88	-	-
Salinity (ppt)	34.3	34.4	34.4	34.4	34.4	34.5	34.40	-	-
pH	7.9	7.9	7.9	8.0	7.9	7.9	7.91	-	-
D.O. Saturation (%)	83.4	82.9	81.4	81.6	82.3	83.6	82.53	-	-
D.O. (mg/L)	6.0	6.0	5.8	5.9	5.9	6.0	5.92	5.96	-
Turbidity (NTU)	10.8	10.8	11.2	11.5	11.5	11.4	11.20	-	-
SS (mg/L)	7	6	8	7	8	10	7.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM05						Co-ordinates	
Time (hh:mm)		15:36-15:37						Northing Easting	
Water Depth (m)		21.0						22.22.497 113.55.057	
Monitoring Depth (m)		1.0		10.5		20.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.0	22.0	21.8	21.8	22.02	-	-
Salinity (ppt)	33.5	33.5	34.0	33.9	34.3	34.2	33.91	-	-
pH	8.3	8.2	8.2	8.2	8.2	8.2	8.21	-	-
D.O. Saturation (%)	85.4	86.1	84.1	83.9	83.8	85.1	84.73	-	-
D.O. (mg/L)	6.1	6.2	6.0	6.0	6.0	6.1	6.08	6.07	-
Turbidity (NTU)	11.8	11.4	12.4	12.9	13.1	13.0	12.43	-	-
SS (mg/L)	8	8	10	10	8	10	9.00	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		C3 (NM6)						Co-ordinates	
Time (hh:mm)		16:19-16:20						Northing Easting	
Water Depth (m)		6.2						22.21.513 113.55.877	
Monitoring Depth (m)		1.0		3.1		5.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.8	21.7	21.7	21.7	21.7	21.74	-	-
Salinity (ppt)	33.3	33.3	33.3	33.4	33.3	33.4	33.32	-	-
pH	8.2	8.3	8.2	8.3	8.3	8.2	8.25	-	-
D.O. Saturation (%)	94.1	93.3	93.5	93.4	93.6	94.6	93.75	-	-
D.O. (mg/L)	6.8	6.8	6.8	6.8	6.8	6.9	6.79	6.82	-
Turbidity (NTU)	11.4	11.3	11.7	11.4	11.4	11.5	11.45	-	-
SS (mg/L)	11.0	14.0	8.0	8.0	8.0	8.0	9.17	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IM06						Co-ordinates	
Time (hh:mm)		15:47-15:48						Northing Easting	
Water Depth (m)		18.8						22.21.513 113.55.877	
Monitoring Depth (m)		1.0		9.4		17.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.5	22.4	21.9	21.8	21.8	21.8	22.04	-	-
Salinity (ppt)	34.0	34.0	34.1	34.2	34.4	34.3	34.19	-	-
pH	8.0	8.0	8.0	8.0	8.0	8.0	8.01	-	-
D.O. Saturation (%)	85.3	85.8	83.8	83.6	84.7	83.8	84.50	-	-
D.O. (mg/L)	6.1	6.1	6.0	6.0	6.1	6.0	6.06	6.06	-
Turbidity (NTU)	11.7	11.7	11.7	11.7	12.4	11.9	11.85	-	-
SS (mg/L)	15.0	6.0	7.0	10.0	7.0	8.0	8.83	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		15:25-15:26						Northing Easting	
Water Depth (m)		14.0						22.22.337 113.54.877	
Monitoring Depth (m)		1.0		7.0		13.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.8	21.8	21.7	21.7	21.6	21.6	21.73	-	-
Salinity (ppt)	33.4	33.4	33.4	33.4	34.3	34.2	33.68	-	-
pH	8.2	8.2	8.2	8.3	8.2	8.2	8.23	-	-
D.O. Saturation (%)	90.8	91.1	87.1	88.2	90.0	89.4	89.43	-	-
D.O. (mg/L)	6.6	6.6	6.3	6.4	6.5	6.5	6.46	6.47	-
Turbidity (NTU)	11.5	11.6	12.4	12.3	13.3	13.1	12.37	-	-
SS (mg/L)	9.0	8.0	11.0	10.0	9.0	7.0	9.00	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		14:55-14:56						Northing Easting	
Water Depth (m)		7.0						22.21.476 113.54.792	
Monitoring Depth (m)		1.0		3.5		6.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.6	21.7	21.6	21.6	21.5	21.5	21.58	-	-
Salinity (ppt)	32.1	32.1	32.3	32.2	34.2	33.9	32.77	-	-
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.20	-	-
D.O. Saturation (%)	89.1	87.9	84.6	85.1	90.4	85.3	87.07	-	-
D.O. (mg/L)	6.5	6.4	6.2	6.2	6.5	6.2	6.34	6.36	-
Turbidity (NTU)	12.3	12.7	13.5	13.2	15.8	15.4	13.82	-	-
SS (mg/L)	8.0	10.0	8.0	9.0	8.0	10.0	8.83	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		15:14-15:15						Northing Easting	
Water Depth (m)		13.0						22.21.476 113.54.792	
Monitoring Depth (m)		1.0		6.5		12.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	21.8	21.7	21.7	21.7	21.88	-	-
Salinity (ppt)	34.0	34.0	34.2	34.4	34.5	34.5	34.25	-	-
pH	8.1	8.1	8.1	8.2	8.1	8.1	8.15	-	-
D.O. Saturation (%)	84.1	83.9	81.9	81.8	84.2	85.0	83.48	-	-
D.O. (mg/L)	6.0	6.0	5.9	5.9	6.1	6.1	6.00	6.09	-
Turbidity (NTU)	12.1	11.8	12.7	12.9	13.1	13.1	12.62	-	-
SS (mg/L)	8	8	10	10	8	9	8.83	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		14:45-14:46						Northing Easting	
Water Depth (m)		8.2						22.21.476 113.54.792	
Monitoring Depth (m)		1.0		4.1		7.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.7	21.7	21.7	21.7	21.6	21.6	21.67	-	-
Salinity (ppt)	33.4	33.3	33.1	33.4	33.7	33.4	33.38	-	-
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.26	-	-
D.O. Saturation (%)	91.4	90.5	88.2	89.7	89.8	89.6	89.87	-	-
D.O. (mg/L)	6.6	6.6	6.4	6.5	6.5	6.5	6.51	6.50	-
Turbidity (NTU)	11.4	11.6	12.1	11.9	12.4	12.1	11.92	-	-
SS (mg/L)	10.0	8.0	11.0	9.0	7.0	6.0	8.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)		-						Northing Easting	
Water Depth (m)		-						-	
Monitoring Depth (m)		-		-		-			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		15:04-15:05						Northing Easting	
Water Depth (m)		5.2						-	
Monitoring Depth (m)		1.0		2.6		4.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	21.7	21.7	21.7	21.6	21.5	21.5	21.62	-	-
Salinity (ppt)	32.0	32.0	32.1	32.1	32.5	32.4	32.18	-	-
pH	8.2	8.2	8.3	8.2	8.2	8.2	8.22	-	-
D.O. Saturation (%)	91.1	92.2	87.9	90.1	86.5	90.0	89.63	-	-
D.O. (mg/L)	6.7	6.7	6.4	6.6	6.3	6.6	6.55	6.45	-
Turbidity (NTU)	11.6	11.9	12.7	12.2	14.1	13.8	12.72	-	-
SS (mg/L)	10.0	10.0	8.0	6.0	8.0	9.0	8.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO4						Co-ordinates	
Time (hh:mm)		-						Northing Easting	
Water Depth (m)		-						-	
Monitoring Depth (m)		-		-		-			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		IM05		IM06		MPB1		MPB2		MP		
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	
DO (Bottom)	3.3	2.5	6.4	6.4	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	6.4	6.4	N	N	N	N	-	-	-</												

Sampling Date	11/29/09
Weather & Ambient Temperature	Sunny, 20C

Station		C2 (NM5)						Co-ordinates	
Time (hh:mm)		10:43-10:44						Northing	Easting
Water Depth (m)		20.2						22.22.015	113.55.249
Monitoring Depth (m)		1.0		10.1		19.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.6	22.6	22.6	22.6	22.6	22.5	22.56	-	
Salinity (ppt)	33.6	33.7	33.7	33.7	33.7	33.6	33.67	-	
pH	8.5	8.5	8.5	8.5	8.5	8.5	8.51	-	
D.O. Saturation (%)	110.3	107.7	108.7	112.5	109.3	117.6	111.02	-	
D.O. (mg/L)	8.0	7.8	7.9	8.2	7.9	8.5	8.04	8.23	
Turbidity (NTU)	5.7	5.7	6.8	7.0	9.9	9.5	7.43	-	
SS (mg/L)	4.0	6.0	6.0	7.0	7.0	7.0	6.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		10:28-10:29						Northing	Easting
Water Depth (m)		14.7						22.21.619	113.54.417
Monitoring Depth (m)		1.0		7.4		13.7			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.2	22.2	22.2	22.2	22.2	22.21	-	
Salinity (ppt)	33.8	33.8	33.8	32.9	33.8	33.8	33.65	-	
pH	8.7	8.7	8.7	8.7	8.7	8.7	8.65	-	
D.O. Saturation (%)	81.8	81.7	84.4	82.3	82.5	85.7	83.07	-	
D.O. (mg/L)	6.0	6.0	6.2	6.1	6.0	6.3	6.08	6.15	
Turbidity (NTU)	9.9	10.3	14.2	13.6	13.8	13.9	12.62	-	
SS (mg/L)	8.0	9.0	8.0	8.0	8.0	9.0	8.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		10:17-10:18						Northing	Easting
Water Depth (m)		12.4						22.21.270	113.54.875
Monitoring Depth (m)		1.0		6.2		11.4			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.3	22.3	22.3	22.2	22.2	22.3	22.26	-	
Salinity (ppt)	33.8	33.8	33.7	33.7	33.6	33.8	33.70	-	
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.59	-	
D.O. Saturation (%)	90.6	90.9	92.1	90.7	93.2	90.3	91.30	-	
D.O. (mg/L)	6.6	6.6	6.7	6.6	6.8	6.6	6.66	6.70	
Turbidity (NTU)	8.7	9.4	11.2	11.1	12.3	12.6	10.88	-	
SS (mg/L)	8.0	8.0	6.0	6.0	7.0	8.0	7.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		IMO4						Co-ordinates	
Time (hh:mm)								Northing	Easting
Water Depth (m)									
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Compliance with Action and Limit Level

Parameter	As in EM&A		C2*130%		IMO1		IMO2		IMO3		IMO4		IMO5		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	8.2	8.2	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	8.0	8.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	9.7	9.7	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
SS (Depth-averaged)	24.0	37.0	8.0	8.0	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N

Mid-Ebb

Station		IMO5						Co-ordinates	
Time (hh:mm)		10:02-10:03						Northing	Easting
Water Depth (m)		19.5						22.22.015	113.55.249
Monitoring Depth (m)		1.0		9.8		18.5			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.4	22.4	22.4	22.4	22.4	22.4	22.40	-	
Salinity (ppt)	33.8	33.9	33.7	33.9	33.9	33.9	33.84	-	
pH	8.7	8.7	8.6	8.7	8.6	8.7	8.65	-	
D.O. Saturation (%)	86.9	85.5	87.8	85.8	88.4	86.1	86.75	-	
D.O. (mg/L)	6.3	6.2	6.4	6.3	6.4	6.3	6.32	6.36	
Turbidity (NTU)	11.4	10.8	15.8	16.1	17.1	16.0	14.53	-	
SS (mg/L)	11.0	11.0	11.0	10.0	9.0	7.0	9.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		9:52-9:55						Northing	Easting
Water Depth (m)		17.0						22.21.667	113.55.714
Monitoring Depth (m)		1.0		8.5		16.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.1	22.6	22.5	22.5	22.4	22.4	22.41	-	
Salinity (ppt)	33.9	33.8	33.8	33.6	33.7	33.6	33.72	-	
pH	8.5	8.6	8.6	8.5	8.6	8.5	8.54	-	
D.O. Saturation (%)	104.4	99.3	101.4	103.4	103.2	105.3	102.83	-	
D.O. (mg/L)	7.6	7.2	7.4	7.5	7.5	7.7	7.47	7.58	
Turbidity (NTU)	10.7	11.1	14.6	14.6	16.2	16.2	13.90	-	
SS (mg/L)	14.0	15.0	13.0	15.0	11.0	11.0	13.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		11:08-11:09						Northing	Easting
Water Depth (m)		8.7							
Monitoring Depth (m)		1.0		4.4		7.7			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.0	22.1	22.1	22.0	22.1	22.1	22.04	-	
Salinity (ppt)	33.5	33.5	33.0	33.5	33.5	33.5	33.41	-	
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.60	-	
D.O. Saturation (%)	90.6	86.2	87.0	94.1	99.2	87.9	90.83	-	
D.O. (mg/L)	6.7	6.3	6.4	6.9	7.3	6.5	6.67	6.87	
Turbidity (NTU)	9.2	9.3	10.9	10.8	11.9	12.0	10.68	-	
SS (mg/L)	10.0	10.0	9.0	9.0	12.0	12.0	10.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		11:19-11:20						Northing	Easting
Water Depth (m)		9.0							
Monitoring Depth (m)		1.0		4.5		8.0			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.1	22.1	22.1	22.1	22.1	22.1	22.09	-	
Salinity (ppt)	33.5	33.5	33.5	33.5	33.6	33.6	33.53	-	
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.61	-	
D.O. Saturation (%)	85.4	87.9	89.4	86.0	92.2	86.3	87.87	-	
D.O. (mg/L)	6.3	6.5	6.6	6.3	6.8	6.3	6.44	6.54	
Turbidity (NTU)	8.6	8.4	9.8	9.3	10.8	10.3	9.53	-	
SS (mg/L)	9.0	8.0	7.0	10.0	9.0	10.0	8.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MP						Co-ordinates	
Time (hh:mm)		10:59-11:00						Northing	Easting
Water Depth (m)		5.3							
Monitoring Depth (m)		1.0		2.6		4.3			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.3	22.2	22.2	22.2	22.2	22.3	22.24	-	
Salinity (ppt)	33.5	33.4	33.6	33.4	33.5	33.4	33.45	-	
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.61	-	
D.O. Saturation (%)	84.1	83.2	84.8	83.2	83.2	83.3	83.63	-	
D.O. (mg/L)	6.2	6.1	6.2	6.1	6.1	6.1	6.12	6.10	
Turbidity (NTU)	10.6	11.1	11.9	12.0	12.1	12.1	11.63	-	
SS (mg/L)	8.0	9.0	9.0	8.0	7.0	9.0	8.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Sampling Date	11/29/09
Weather & Ambient Temperature	Fine, 24C

Mid-Flood

Station		C1 (NM3)						Co-ordinates	
Time (hh:mm)		16:37-16:39						Northing	
Water Depth (m)		16.1						Easting	
Monitoring Depth (m)		1.0		8.1		15.1		22,22,021 113,55,244	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.6	22.7	22.6	22.6	22.6	22.7	22.64	-	-
Salinity (ppt)	33.8	33.7	33.7	33.7	33.7	33.7	33.71	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.57	-	-
D.O. Saturation (%)	104.6	102.7	103.8	105.2	106.3	103.4	104.33	-	-
D.O. (mg/L)	7.6	7.4	7.5	7.6	7.7	7.5	7.55	7.59	-
Turbidity (NTU)	6.7	7.2	11.7	11.7	14.3	14.6	11.03	-	-
SS (mg/L)	6.0	6.0	6.0	7.0	8.0	6.0	6.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMOS						Co-ordinates	
Time (hh:mm)		16:14-16:16						Northing	
Water Depth (m)		18.1						Easting	
Monitoring Depth (m)		1.0		9.1		17.1		22,22,021 113,55,244	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.6	22.6	22.5	22.5	22.5	22.5	22.50	-	-
Salinity (ppt)	33.8	33.8	33.8	33.7	33.8	33.8	33.81	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.63	-	-
D.O. Saturation (%)	90.7	89.2	85.6	98.9	94.1	85.0	90.58	-	-
D.O. (mg/L)	6.6	6.5	6.2	7.2	6.8	6.2	6.58	6.52	-
Turbidity (NTU)	11.2	11.5	15.7	16.0	16.9	17.2	14.75	-	-
SS (mg/L)	9.0	9.0	8.0	8.0	6.0	6.0	7.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		C3 (NM6)						Co-ordinates	
Time (hh:mm)		15:02-15:03						Northing	
Water Depth (m)		7.0						Easting	
Monitoring Depth (m)		1.0		3.5		6.0		22,21,666 113,55,714	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.0	22.0	22.0	22.0	22.0	22.0	22.01	-	-
Salinity (ppt)	33.8	33.8	33.8	33.8	33.8	33.8	33.53	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.61	-	-
D.O. Saturation (%)	92.7	92.3	96.1	91.8	92.6	97.9	93.90	-	-
D.O. (mg/L)	6.8	6.8	7.1	6.7	6.8	7.2	6.89	6.98	-
Turbidity (NTU)	8.7	9.0	9.3	9.4	10.9	10.4	9.62	-	-
SS (mg/L)	10.0	8.0	6.0	6.0	7.0	6.0	7.17	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		16:24-16:25						Northing	
Water Depth (m)		16.4						Easting	
Monitoring Depth (m)		1.0		8.2		15.4		22,21,666 113,55,714	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.4	22.5	22.4	22.4	22.4	22.4	22.42	-	-
Salinity (ppt)	33.8	33.8	33.7	33.8	33.7	33.8	33.77	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.61	-	-
D.O. Saturation (%)	88.7	91.8	89.6	93.2	94.8	90.3	91.40	-	-
D.O. (mg/L)	6.5	6.7	6.5	6.8	6.9	6.6	6.65	6.74	-
Turbidity (NTU)	7.1	6.9	10.7	10.9	15.3	15.5	11.07	-	-
SS (mg/L)	14.0	12.0	14.0	14.0	12.0	10.0	12.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		15:52-15:53						Northing	
Water Depth (m)		13.6						Easting	
Monitoring Depth (m)		1.0		6.8		12.6		22,21,609 113,54,413	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.3	22.3	22.2	22.2	22.3	22.27	-	-
Salinity (ppt)	33.8	33.7	33.8	33.8	33.8	33.8	33.79	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.62	-	-
D.O. Saturation (%)	87.5	88.7	87.5	88.9	87.9	88.8	88.22	-	-
D.O. (mg/L)	6.4	6.5	6.4	6.5	6.4	6.5	6.44	6.45	-
Turbidity (NTU)	7.6	7.0	8.2	7.9	11.1	10.9	8.78	-	-
SS (mg/L)	5.0	8.0	10.0	6.0	9.0	13.0	8.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		15:29-15:30						Northing	
Water Depth (m)		9.2						Easting	
Monitoring Depth (m)		1.0		4.6		8.2		22,21,609 113,54,413	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.1	22.1	22.1	22.1	22.1	22.1	22.05	-	-
Salinity (ppt)	33.5	33.5	33.4	33.3	33.5	33.5	33.44	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.62	-	-
D.O. Saturation (%)	85.6	84.9	85.9	85.0	85.4	86.1	85.48	-	-
D.O. (mg/L)	6.3	6.2	6.3	6.3	6.3	6.3	6.28	6.30	-
Turbidity (NTU)	8.5	8.5	9.0	8.7	9.1	9.4	8.87	-	-
SS (mg/L)	12.0	10.0	8.0	10.0	8.0	8.0	9.33	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		16:03-16:04						Northing	
Water Depth (m)		11.7						Easting	
Monitoring Depth (m)		1.0		5.9		10.7		22,21,275 113,54,877	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.2	22.3	22.2	22.2	22.2	22.2	22.22	-	-
Salinity (ppt)	33.8	33.7	33.8	33.7	33.8	33.8	33.76	-	-
pH	8.7	8.6	8.7	8.6	8.7	8.6	8.64	-	-
D.O. Saturation (%)	82.1	83.0	82.5	85.6	83.1	88.9	84.20	-	-
D.O. (mg/L)	6.0	6.1	6.0	6.3	6.1	6.5	6.15	6.28	-
Turbidity (NTU)	7.1	7.4	14.2	13.6	16.1	16.4	12.47	-	-
SS (mg/L)	6.0	5.0	7.0	6.0	9.0	7.0	6.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		15:19-15:20						Northing	
Water Depth (m)		9.4						Easting	
Monitoring Depth (m)		1.0		4.7		8.4		22,21,275 113,54,877	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.1	22.1	22.1	22.1	22.1	22.1	22.08	-	-
Salinity (ppt)	33.5	33.5	33.5	33.4	33.6	33.6	33.52	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.6	8.62	-	-
D.O. Saturation (%)	84.9	85.2	85.4	84.9	85.5	85.0	85.15	-	-
D.O. (mg/L)	6.2	6.3	6.3	6.2	6.3	6.2	6.25	6.25	-
Turbidity (NTU)	7.4	7.4	7.5	7.3	8.0	7.7	7.55	-	-
SS (mg/L)	10.0	8.0	8.0	11.0	8.0	7.0	8.67	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)		-						Northing	
Water Depth (m)		-						Easting	
Monitoring Depth (m)		-		-		-		-	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		15:38-15:39						Northing	
Water Depth (m)		5.4						Easting	
Monitoring Depth (m)		1.0		2.7		4.4		-	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.3	22.3	22.3	22.3	22.3	22.1	22.25	-	-
Salinity (ppt)	33.5	33.1	33.4	33.5	33.5	33.4	33.39	-	-
pH	8.6	8.6	8.6	8.6	8.6	8.5	8.57	-	-
D.O. Saturation (%)	83.7	85.2	83.2	88.4	83.4	94.9	86.47	-	-
D.O. (mg/L)	6.1	6.2	6.1	6.5	6.1	7.0	6.33	6.53	-
Turbidity (NTU)	8.3	8.6	11.8	11.8	12.4	12.3	10.87	-	-
SS (mg/L)	9.0	10.0	11.0	10.0	8.0	9.0	9.50	-	-
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO4						Co-ordinates	
Time (hh:mm)		-						Northing	
Water Depth (m)		-						Easting	
Monitoring Depth (m)		-		-		-		-	
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	-
Salinity (ppt)	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-
D.O. Saturation (%)	-	-	-	-	-	-	-	-	-
D.O. (mg/L)	-	-	-	-	-	-	-	-	-
Turbidity (NTU)	-	-	-	-	-	-	-	-	-
SS (mg/L)	-	-	-	-	-	-	-	-	-
Remarks									

Compliance with Action and Limit Level

Parameter	As in EMSA		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		IMOS		IMO6		MPB1		MPB2		MP	
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level
DO (Bottom)	3.3	2.5	7.3	7.3	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	7.2	7.2	N	N	N	N	-	-												

Sampling Date	11/30/2009
Weather & Ambient Temperature	Fine, 23C

Mid-Flood

Station		C1 (NM3)						Co-ordinates	
Time (hh:mm)		16:53-16:54						Northing	
Water Depth (m)		16.1						Easting	
Monitoring Depth (m)		1.0		8.1		15.1			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.9	22.9	23.0	23.0	23.0	23.0	22.97	-	
Salinity (ppt)	33.8	33.4	34.4	34.5	34.6	34.6	34.21	-	
pH	8.3	8.3	8.3	8.2	8.2	8.3	8.27	-	
D.O. Saturation (%)	83.6	84.8	84.4	82.1	82.7	85.6	83.87	-	
D.O. (mg/L)	5.3	5.4	5.4	5.2	5.3	5.4	5.34	5.35	
Turbidity (NTU)	7.2	7.7	13.3	13.6	13.7	13.3	11.47	-	
SS (mg/L)	7.0	9.0	10.0	8.0	10.0	9.0	8.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMOS						Co-ordinates	
Time (hh:mm)		16:23-16:25						Northing	
Water Depth (m)		21.2						Easting	
Monitoring Depth (m)		1.0		10.6		20.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.0	23.0	23.1	23.1	23.1	23.1	23.04	-	
Salinity (ppt)	34.0	33.9	34.4	34.6	34.7	33.9	34.26	-	
pH	8.3	8.3	8.3	8.3	8.3	8.2	8.28	-	
D.O. Saturation (%)	80.4	82.0	80.8	77.2	82.7	78.1	80.20	-	
D.O. (mg/L)	5.1	5.2	5.1	4.9	5.2	5.0	5.09	5.10	
Turbidity (NTU)	10.8	10.8	15.2	15.3	16.6	16.2	14.15	-	
SS (mg/L)	10.0	11.0	13.0	14.0	10.0	13.0	11.83	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		C3 (NM6)						Co-ordinates	
Time (hh:mm)		14:51-14:52						Northing	
Water Depth (m)		7.2						Easting	
Monitoring Depth (m)		1.0		3.6		6.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.9	22.9	22.9	22.9	22.9	22.9	22.91	-	
Salinity (ppt)	31.8	31.6	31.8	31.9	31.9	31.9	31.80	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.21	-	
D.O. Saturation (%)	92.3	92.7	92.9	92.8	93.2	91.5	92.57	-	
D.O. (mg/L)	6.3	6.4	6.4	6.4	6.4	6.3	6.36	6.34	
Turbidity (NTU)	11.7	12.6	13.0	12.5	13.5	13.6	12.82	-	
SS (mg/L)	12.0	11.0	12.0	11.0	10.0	10.0	11.00	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO6						Co-ordinates	
Time (hh:mm)		16:12-16:14						Northing	
Water Depth (m)		18.2						Easting	
Monitoring Depth (m)		1.0		9.1		17.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.1	23.1	23.1	23.1	23.1	23.1	23.09	-	
Salinity (ppt)	34.3	34.4	34.4	34.4	34.4	34.4	34.40	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	81.7	81.0	80.4	81.5	80.7	81.8	81.18	-	
D.O. (mg/L)	5.2	5.1	5.1	5.2	5.1	5.2	5.15	5.15	
Turbidity (NTU)	10.1	9.9	15.4	15.0	15.9	16.5	13.80	-	
SS (mg/L)	13.0	12.0	14.0	13.0	13.0	11.0	12.67	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO1						Co-ordinates	
Time (hh:mm)		16:34-16:35						Northing	
Water Depth (m)		17.8						Easting	
Monitoring Depth (m)		1.0		8.9		16.8			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.0	23.0	23.1	23.1	23.1	23.1	23.07	-	
Salinity (ppt)	34.4	34.4	34.6	34.6	34.7	34.6	34.53	-	
pH	8.3	8.3	8.3	8.3	8.3	8.3	8.29	-	
D.O. Saturation (%)	81.4	81.1	80.4	81.1	82.0	80.3	81.05	-	
D.O. (mg/L)	5.2	5.2	5.1	5.1	5.2	5.1	5.14	5.14	
Turbidity (NTU)	6.6	7.3	15.9	16.3	16.4	16.1	13.10	-	
SS (mg/L)	12.0	15.0	12.0	12.0	12.0	12.0	12.50	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB1						Co-ordinates	
Time (hh:mm)		15:23-15:24						Northing	
Water Depth (m)		8.9						Easting	
Monitoring Depth (m)		1.0		4.5		7.9			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.9	22.9	23.0	23.0	22.9	23.0	22.94	-	
Salinity (ppt)	31.7	31.8	31.9	31.9	32.1	32.3	31.94	-	
pH	8.2	8.2	8.2	8.2	8.1	8.2	8.19	-	
D.O. Saturation (%)	81.6	82.0	82.1	81.5	83.8	82.3	82.22	-	
D.O. (mg/L)	5.4	5.4	5.4	5.4	5.5	5.4	5.42	5.48	
Turbidity (NTU)	11.2	11.8	11.3	11.3	14.6	14.3	12.42	-	
SS (mg/L)	11.0	14.0	13.0	12.0	12.0	12.0	12.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO2						Co-ordinates	
Time (hh:mm)		16:00-16:02						Northing	
Water Depth (m)		18.2						Easting	
Monitoring Depth (m)		1.0		9.1		17.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	23.0	23.0	23.1	23.0	23.1	23.1	23.05	-	
Salinity (ppt)	34.3	34.2	34.4	34.3	34.7	34.8	34.44	-	
pH	8.3	8.3	8.3	8.3	8.3	8.2	8.28	-	
D.O. Saturation (%)	83.7	83.3	80.6	80.4	84.1	78.7	81.80	-	
D.O. (mg/L)	5.3	5.3	5.1	5.1	5.3	5.0	5.19	5.15	
Turbidity (NTU)	8.2	8.9	15.7	15.2	16.9	16.3	13.53	-	
SS (mg/L)	11.0	10.0	10.0	9.0	10.0	10.0	10.00	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		MPB2						Co-ordinates	
Time (hh:mm)		15:11-15:12						Northing	
Water Depth (m)		9.2						Easting	
Monitoring Depth (m)		1.0		4.6		8.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.9	22.9	22.9	22.9	22.9	22.9	22.91	-	
Salinity (ppt)	31.3	31.2	31.5	31.5	32.3	32.5	31.69	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.19	-	
D.O. Saturation (%)	82.6	82.2	82.8	81.3	81.7	82.7	82.22	-	
D.O. (mg/L)	5.5	5.5	5.5	5.4	5.4	5.5	5.44	5.42	
Turbidity (NTU)	8.7	8.8	8.7	9.0	10.3	9.7	9.20	-	
SS (mg/L)	14.0	11.0	18.0	16.0	15.0	12.0	14.33	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO3						Co-ordinates	
Time (hh:mm)								Northing	
Water Depth (m)								Easting	
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks									

Station		MP						Co-ordinates	
Time (hh:mm)		15:35-15:36						Northing	
Water Depth (m)		5.2						Easting	
Monitoring Depth (m)		1.0		2.6		4.2			
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	22.9	22.9	22.9	22.9	22.9	22.9	22.91	-	
Salinity (ppt)	31.5	31.5	31.6	31.5	31.6	31.5	31.53	-	
pH	8.2	8.2	8.2	8.2	8.2	8.2	8.19	-	
D.O. Saturation (%)	80.8	80.6	80.7	81.5	80.7	81.5	80.97	-	
D.O. (mg/L)	5.3	5.3	5.3	5.4	5.3	5.4	5.35	5.36	
Turbidity (NTU)	9.3	9.7	12.0	11.2	12.0	11.2	10.90	-	
SS (mg/L)	13.0	12.0	11.0	10.0	13.0	14.0	12.17	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Station		IMO4						Co-ordinates	
Time (hh:mm)								Northing	
Water Depth (m)								Easting	
Monitoring Depth (m)									
Trial	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2	Depth-averaged	Bottom	
Water Temperature (°C)	-	-	-	-	-	-	-	-	
Salinity (ppt)	-	-	-	-	-	-	-	-	
pH	-	-	-	-	-	-	-	-	
D.O. Saturation (%)	-	-	-	-	-	-	-	-	
D.O. (mg/L)	-	-	-	-	-	-	-	-	
Turbidity (NTU)	-	-	-	-	-	-	-	-	
SS (mg/L)	-	-	-	-	-	-	-	-	
Remarks	Derrick lighter CM38 (B21601V) and Dredger were in operation.								

Compliance with Action and Limit Level

Parameter	As in EMSA		Mean (C1+C3)*130%		IMO1		IMO2		IMO3		IMO4		IMOS		IMO6		MPB1		MPB2		MP		
	Action Level	Limit Level	Action Level	Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	Exceedance of Action Level	Exceedance of Limit Level	
DO (Bottom)	3.3	2.5	5.8	5.8	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N	N
DO (Depth-averaged)	4.2	4.0	5.8	5.8	N	N	N	N	-	-	-	-	N	N	N	N	N	N	N	N	N	N	N
Turbidity (Depth-averaged)	29.0	49.0	15.8	15.8	N	N	N	N	-	-													

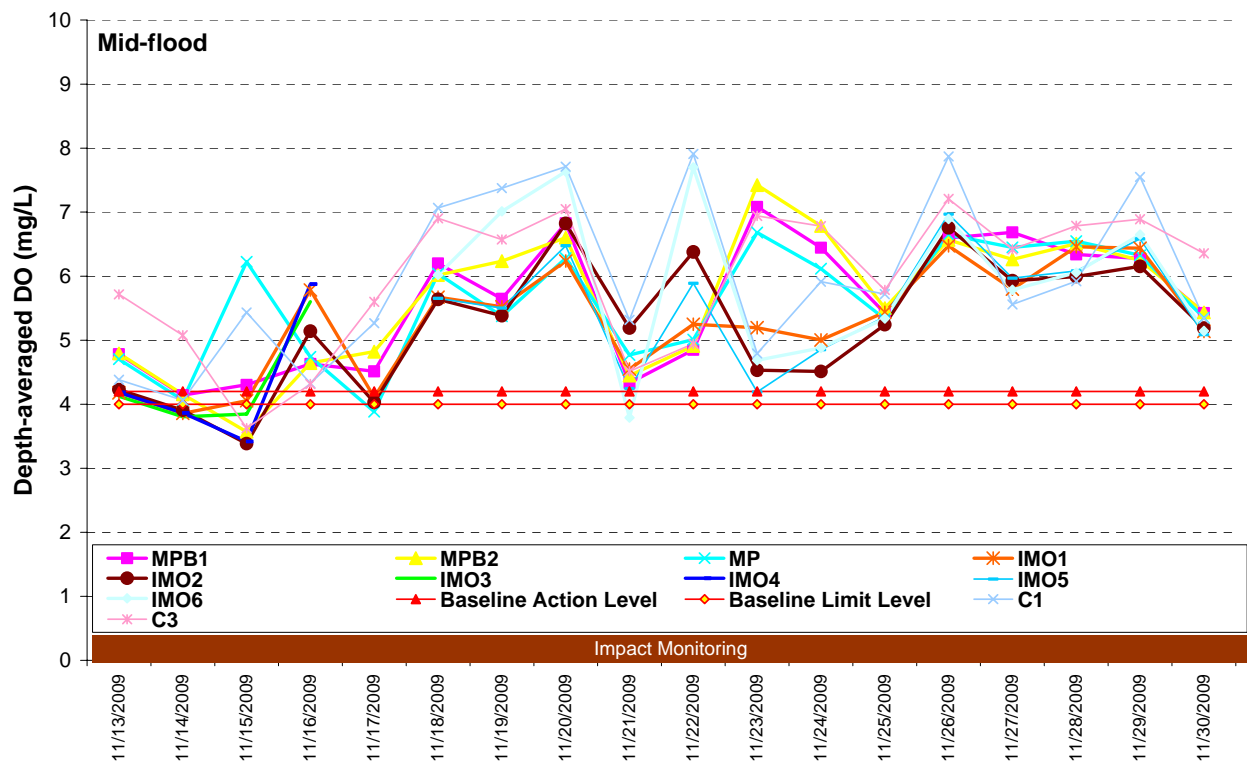
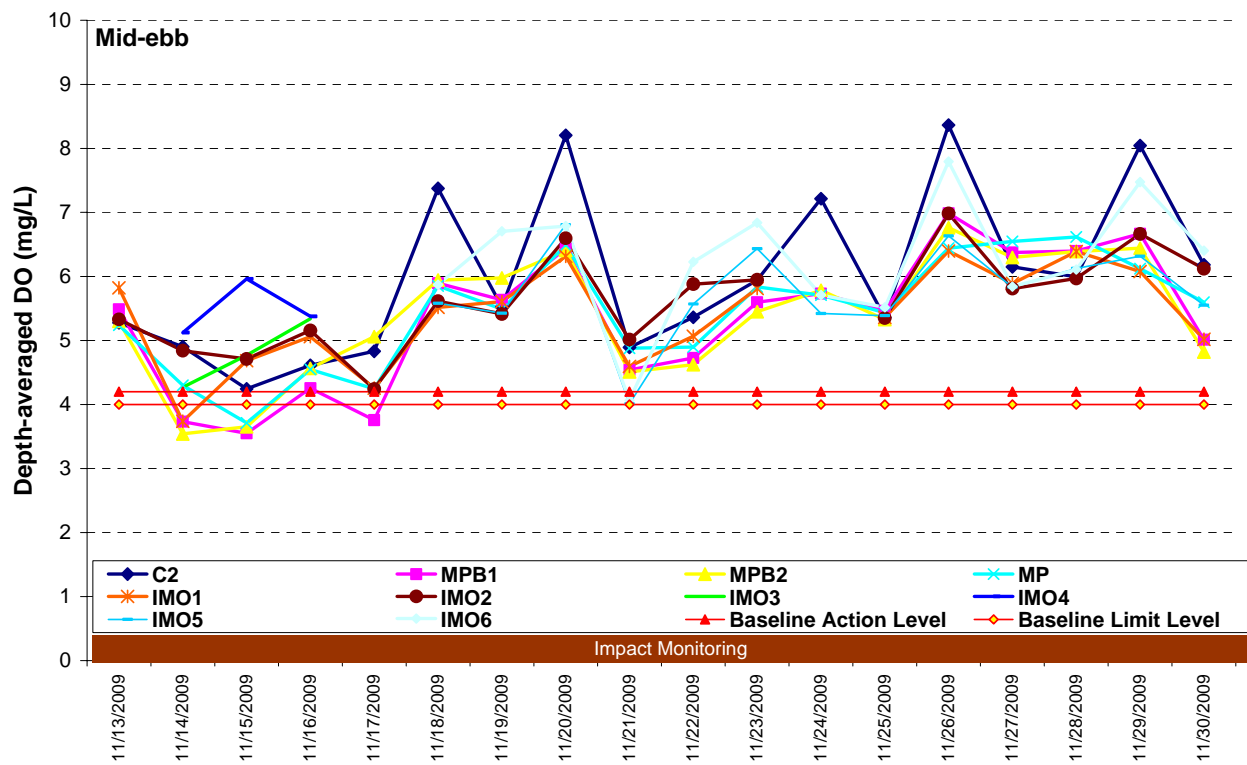


Figure G1 Dissolved oxygen concentration (depth-averaged) (mg/L) of water samples at mid-ebb and mid-flood between 13 and 30 November 2009

Ref: 0018105_Annex G_water graphs.doc



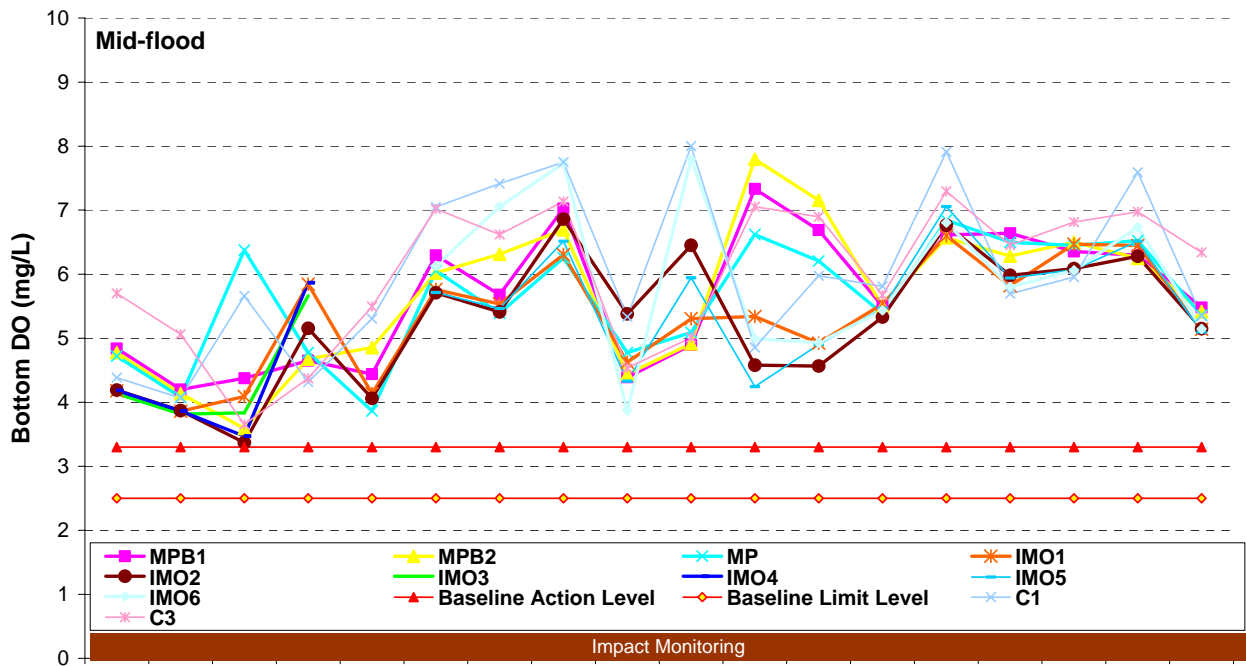
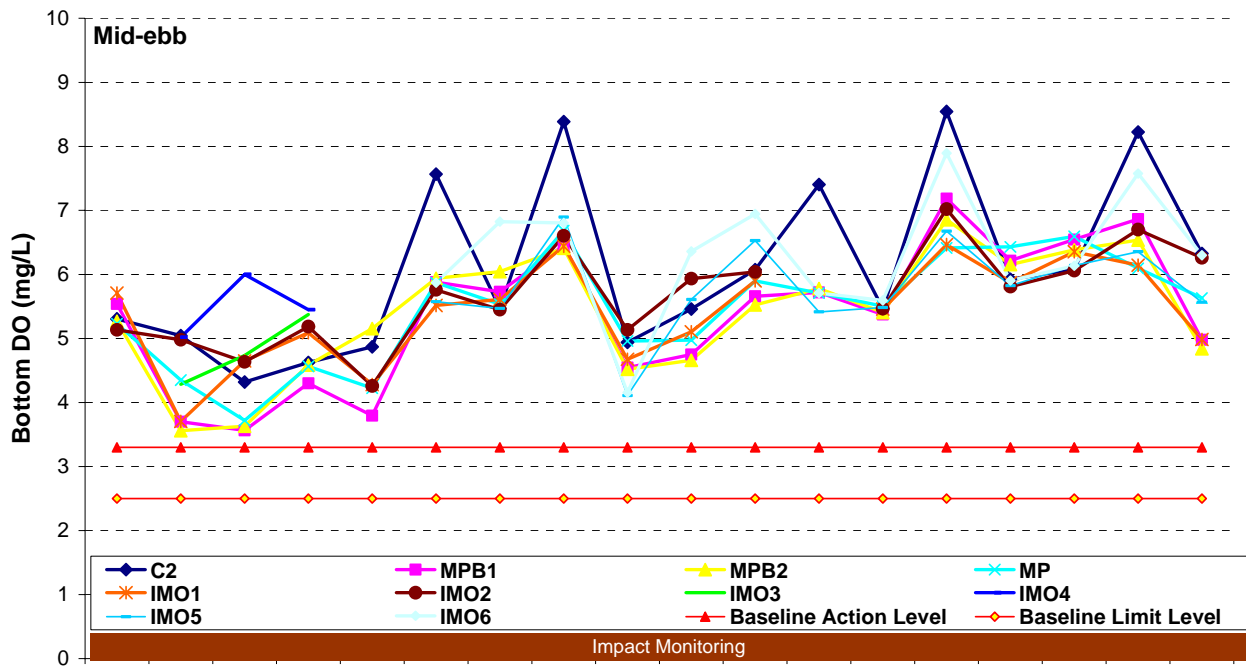


Figure G2 Dissolved oxygen concentration (bottom) (mg/L) of water samples at mid-ebb and mid-flood between 13 and 30 November 2009

Ref: 0018105_Annex G_water graphs.doc



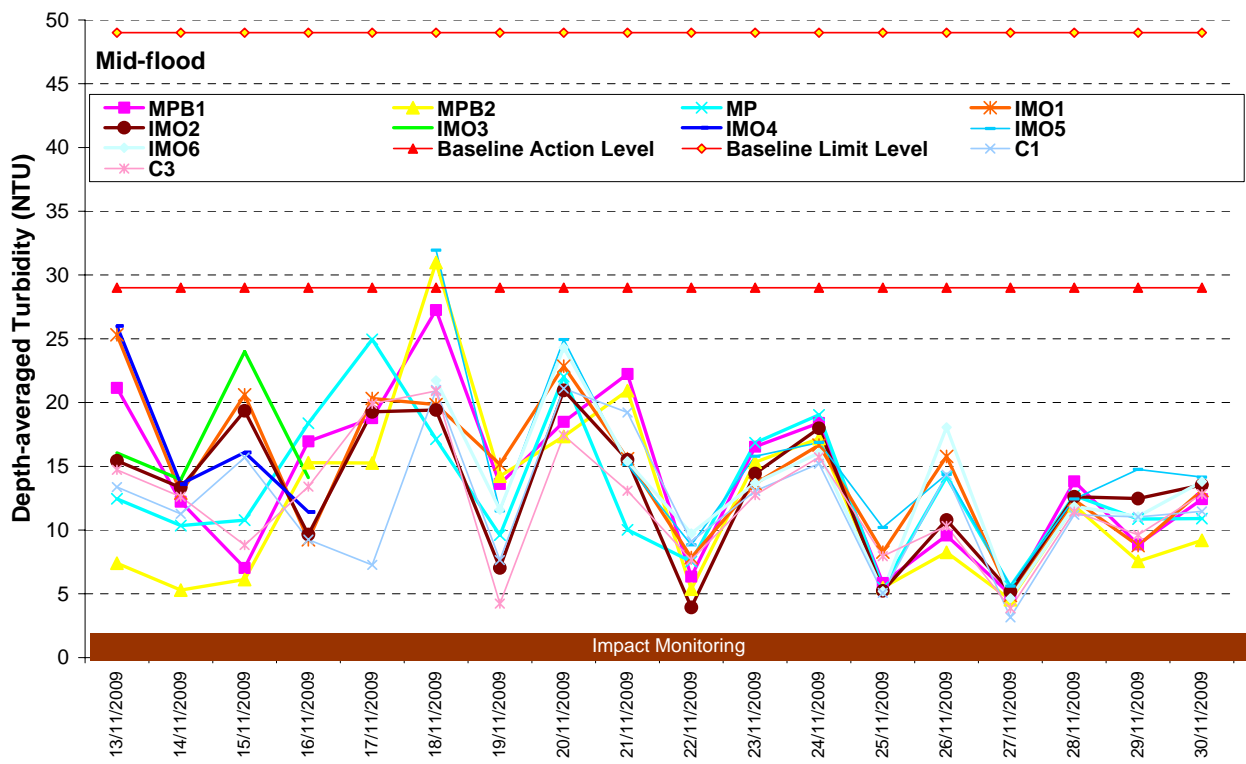
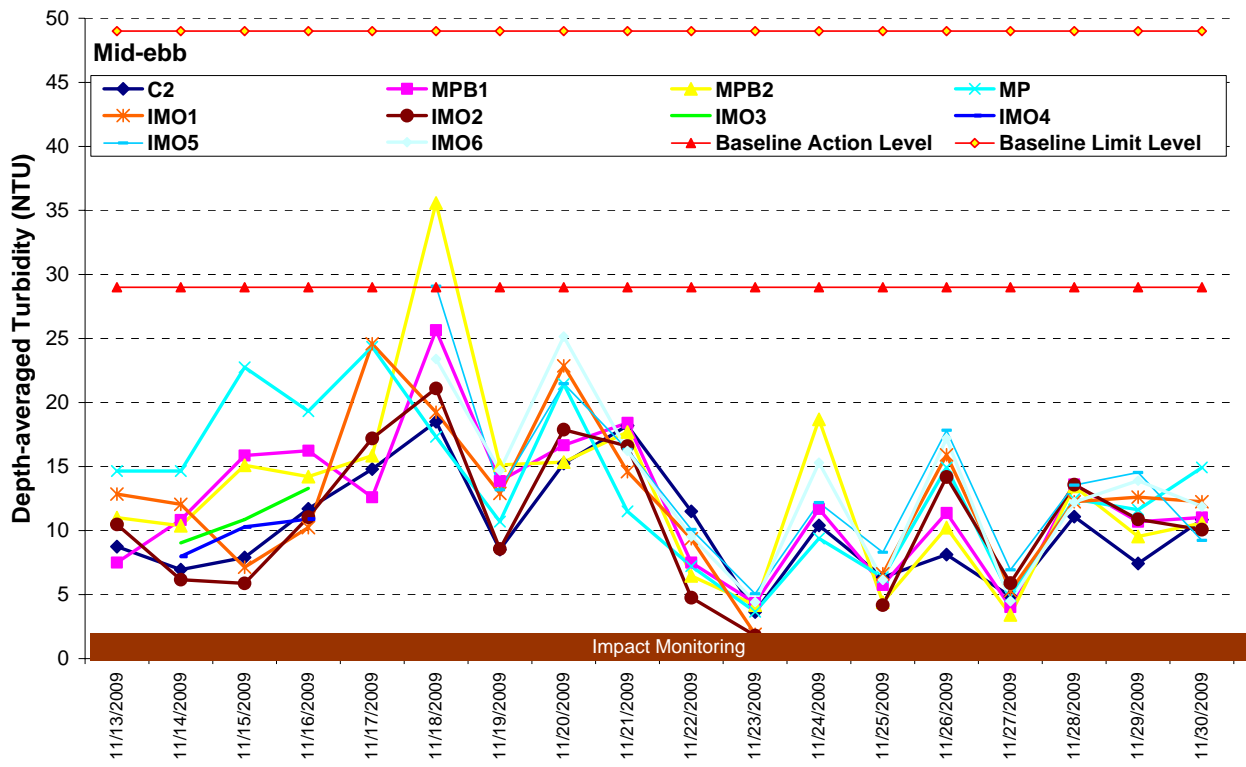


Figure G3 Depth-averaged turbidity (NTU) of water samples at mid-ebb and mid-flood between 13 and 30 November 2009

Ref: 0018105_Annex G_water graphs.doc



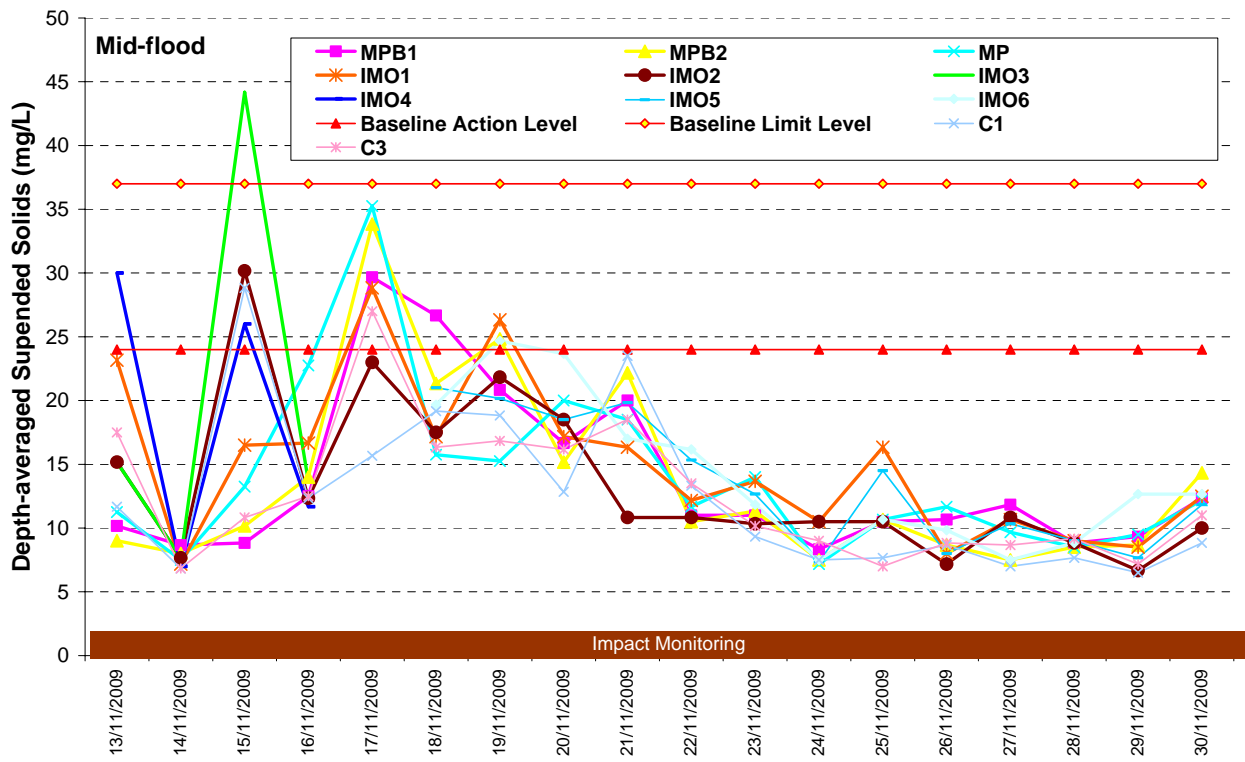
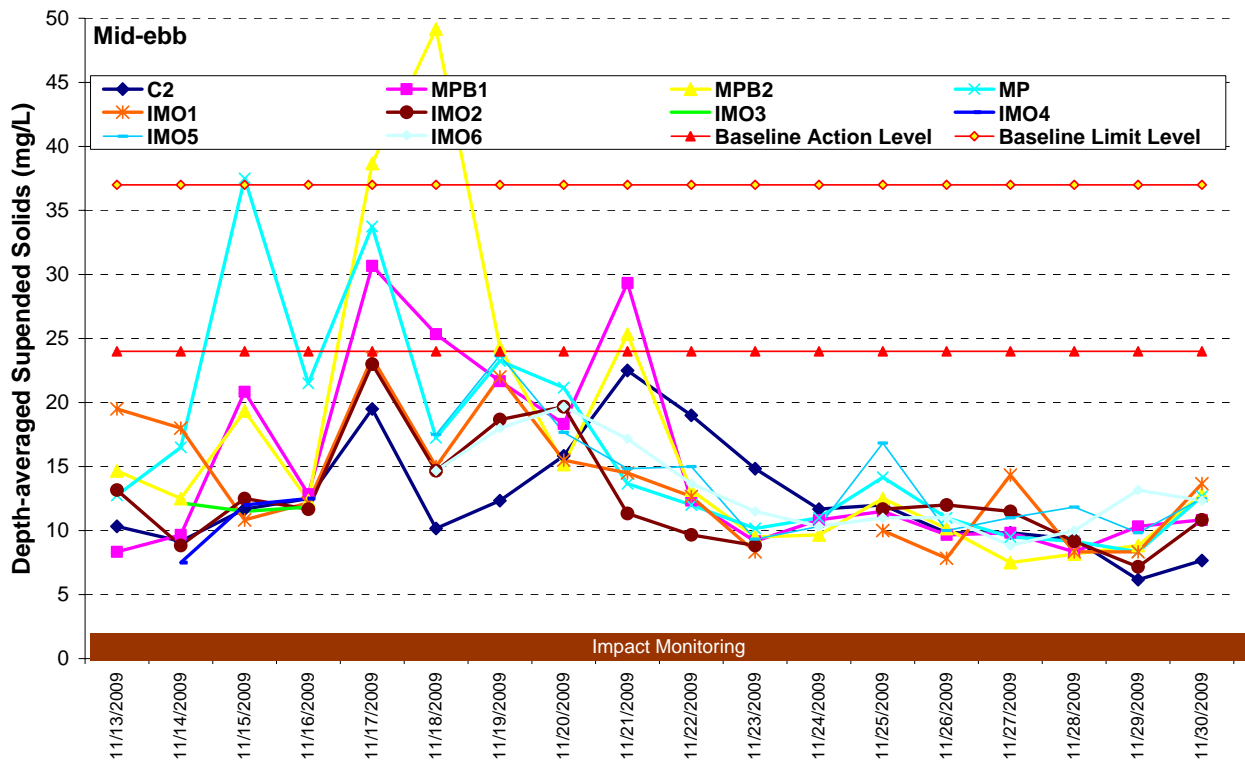


Figure G4 Depth-averaged suspended solids concentration (mg/L) of water samples at mid-ebb and mid-flood between 13 and 30 November 2009

Ref: 0018105_Annex G_water graphs.doc



Annex H

Monitoring Results and
QA/QC Reports of
Laboratory Testing for
POPs



CERTIFICATE OF ANALYSIS

Client	: ERM HONG KONG	Laboratory	: ALS Technichem HK Pty Ltd	Page	: 1 of 7
Contact	: MS FRANCESCA ZINO	Contact	: Chan Kwok Fai, Godfrey	Work Order	: HK0924723
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		
E-mail	: francesca.zino@erm.com	E-mail	: Godfrey.Chan@alsenviro.com		
Telephone	: +852 2271 3000	Telephone	: +852 2610 1044		
Facsimile	: +852 2723 5660	Facsimile	: +852 2610 2021		
Project	: TUEN MUN	Quote number	: HK/1426c/2009**	Date Samples Received	: 25-NOV-2009
Order number	: ----			Issue Date	: 09-DEC-2009
C-O-C number	: ----			No. of samples received	: 18
Site	: ----			No. of samples analysed	: 18

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the 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 processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client. The completion date of analysis is: 02-DEC-2009

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific comments for Work Order: **HK0924723**

Sample(s) were collected by ALS Technichem (HK) staff on 25 November,2009.

Water sample(s) analysed and reported on an as received basis.

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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.

Signatories

Anh Ngoc Huynh

Position

Senior Chemist

Authorised results for

Organics

ALS Laboratory Group

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A Campbell Brothers Limited Company



Analytical Results

Sub-Matrix: WATER

Client sample ID

Client sampling date / time

Compound	CAS Number	LOR	Unit	MPB1 MID-EBB	MPB1 MID-EBB DUP	MPB2 MID-EBB	MPB2 MID-EBB DUP	MP MID-EBB
				[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]
				HK0924723-001	HK0924723-002	HK0924723-003	HK0924723-004	HK0924723-005
EP-065A: PCB Single Congeners								
PCB 8	34883-43-7	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 18	37680-65-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	7012-37-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 52	35693-99-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 44	41464-39-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 66	32598-10-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 101	37680-73-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 77	32598-13-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 149	38380-04-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 118	31508-00-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 153	35065-27-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 105	32598-14-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 126	57465-28-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 187	52663-68-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 128	38380-07-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 156	38380-08-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 180	35065-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 169	60044-26-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 170	35065-30-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 195	52663-78-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065B: Organochlorine Pesticides								
4,4'-DDT	50-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4,4'-DDE	72-55-9	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
4,4'-DDD	72-54-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065S: PCB Congeners and Organochlorine Pesticides Surrogate							Surrogate control limits listed at end of this report.	
Decachlorobiphenyl	2051-24-3	0.1	%	87.6	91.0	92.6	94.2	86.2



Sub-Matrix: WATER				Client sample ID	MP MID-EBB DUP	C2 (NM5) MID-EBB	C2 (NM5) MID-EBB DUP	MPB1 MID-FLOOD	MPB1 MID-FLOOD DUP
Client sampling date / time				[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	
Compound	CAS Number	LOR	Unit	HK0924723-006	HK0924723-007	HK0924723-008	HK0924723-009	HK0924723-010	
EP-065A: PCB Single Congeners									
PCB 8	34883-43-7	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 18	37680-65-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 28	7012-37-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 52	35693-99-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 44	41464-39-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 66	32598-10-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 101	37680-73-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 77	32598-13-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 149	38380-04-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 118	31508-00-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 153	35065-27-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 105	32598-14-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 126	57465-28-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 187	52663-68-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 128	38380-07-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 156	38380-08-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 180	35065-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 169	60044-26-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 170	35065-30-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
PCB 195	52663-78-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP-065B: Organochlorine Pesticides									
4,4'-DDT	50-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
4,4'-DDE	72-55-9	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
4,4'-DDD	72-54-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP-065S: PCB Congeners and Organochlorine Pesticides Surrogate							Surrogate control limits listed at end of this report.		
Decachlorobiphenyl	2051-24-3	0.1	%	87.0	99.8	90.5	84.9	88.4	



Sub-Matrix: WATER				Client sample ID	MPB2 MID-FLOOD	MPB2 MID-FLOOD DUP	MP MID-FLOOD	MP MID-FLOOD DUP	C1 (NM3) MID-FLOOD
Client sampling date / time				[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]
Compound	CAS Number	LOR	Unit	HK0924723-011	HK0924723-012	HK0924723-013	HK0924723-014	HK0924723-015	
EP-065A: PCB Single Congeners									
PCB 8	34883-43-7	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 18	37680-65-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 28	7012-37-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 52	35693-99-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 44	41464-39-5	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 66	32598-10-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 101	37680-73-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 77	32598-13-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 149	38380-04-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 118	31508-00-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 153	35065-27-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 105	32598-14-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 126	57465-28-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 187	52663-68-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 128	38380-07-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 156	38380-08-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 180	35065-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 169	60044-26-0	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 170	35065-30-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB 195	52663-78-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065B: Organochlorine Pesticides									
4,4'-DDT	50-29-3	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4,4'-DDE	72-55-9	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4,4'-DDD	72-54-8	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EP-065S: PCB Congeners and Organochlorine Pesticides Surrogate								Surrogate control limits listed at end of this report.	
Decachlorobiphenyl	2051-24-3	0.1	%	91.9	96.8	95.3	88.6	98.6	



Sub-Matrix: WATER				Client sample ID	C1 (NM3) MID-FLOOD DUP	C3 (NM6) MID-FLOOD	C3 (NM6) MID-FLOOD DUP		
Client sampling date / time				[25-NOV-2009]	[25-NOV-2009]	[25-NOV-2009]			
Compound	CAS Number	LOR	Unit	HK0924723-016	HK0924723-017	HK0924723-018			
EP-065A: PCB Single Congeners									
PCB 8	34883-43-7	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 18	37680-65-2	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 28	7012-37-5	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 52	35693-99-3	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 44	41464-39-5	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 66	32598-10-0	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 101	37680-73-2	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 77	32598-13-3	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 149	38380-04-0	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 118	31508-00-6	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 153	35065-27-1	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 105	32598-14-4	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 126	57465-28-8	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 187	52663-68-0	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 128	38380-07-3	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 156	38380-08-4	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 180	35065-29-3	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 169	60044-26-0	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 170	35065-30-6	0.01	µg/L	<0.01	<0.01	<0.01			
PCB 195	52663-78-2	0.01	µg/L	<0.01	<0.01	<0.01			
EP-065B: Organochlorine Pesticides									
4,4'-DDT	50-29-3	0.01	µg/L	<0.01	<0.01	<0.01			
4,4'-DDE	72-55-9	0.01	µg/L	<0.01	<0.01	<0.01			
4,4'-DDD	72-54-8	0.01	µg/L	<0.01	<0.01	<0.01			
EP-065S: PCB Congeners and Organochlorine Pesticides Surrogate							Surrogate control limits listed at end of this report.		
Decachlorobiphenyl	2051-24-3	0.1	%	89.9	97.4	93.0			



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 (%)
EP-065A: PCB Single Congeners (QC Lot: 1181857)								
HK0924723-011	MPB2 MID-FLOOD	PCB 8	34883-43-7	0.01	µg/L	<0.01	<0.01	0.0
		PCB 18	37680-65-2	0.01	µg/L	<0.01	<0.01	0.0
		PCB 28	7012-37-5	0.01	µg/L	<0.01	<0.01	0.0
		PCB 52	35693-99-3	0.01	µg/L	<0.01	<0.01	0.0
		PCB 44	41464-39-5	0.01	µg/L	<0.01	<0.01	0.0
		PCB 66	32598-10-0	0.01	µg/L	<0.01	<0.01	0.0
		PCB 101	37680-73-2	0.01	µg/L	<0.01	<0.01	0.0
		PCB 77	32598-13-3	0.01	µg/L	<0.01	<0.01	0.0
		PCB 149	38380-04-0	0.01	µg/L	<0.01	<0.01	0.0
		PCB 118	31508-00-6	0.01	µg/L	<0.01	<0.01	0.0
		PCB 153	35065-27-1	0.01	µg/L	<0.01	<0.01	0.0
		PCB 105	32598-14-4	0.01	µg/L	<0.01	<0.01	0.0
		PCB 126	57465-28-8	0.01	µg/L	<0.01	<0.01	0.0
		PCB 187	52663-68-0	0.01	µg/L	<0.01	<0.01	0.0
		PCB 128	38380-07-3	0.01	µg/L	<0.01	<0.01	0.0
		PCB 156	38380-08-4	0.01	µg/L	<0.01	<0.01	0.0
		PCB 180	35065-29-3	0.01	µg/L	<0.01	<0.01	0.0
		PCB 169	60044-26-0	0.01	µg/L	<0.01	<0.01	0.0
		PCB 170	35065-30-6	0.01	µg/L	<0.01	<0.01	0.0
PCB 195	52663-78-2	0.01	µg/L	<0.01	<0.01	0.0		
EP-065B: Organochlorine Pesticides (QC Lot: 1181857)								
HK0924723-011	MPB2 MID-FLOOD	4,4'-DDT	50-29-3	0.01	µg/L	<0.01	<0.01	0.0
		4,4'-DDE	72-55-9	0.01	µg/L	<0.01	<0.01	0.0
		4,4'-DDD	72-54-8	0.01	µg/L	<0.01	<0.01	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					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration n	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-065A: PCB Single Congeners (QC Lot: 1181857)											
PCB 8	34883-43-7	0.01	µg/L	<0.01	100 µg/L	76.3	----	50	130	----	----
PCB 18	37680-65-2	0.01	µg/L	<0.01	100 µg/L	88.7	----	50	130	----	----
PCB 28	7012-37-5	0.01	µg/L	<0.01	100 µg/L	78.0	----	50	130	----	----
PCB 52	35693-99-3	0.01	µg/L	<0.01	100 µg/L	78.2	----	50	130	----	----
PCB 44	41464-39-5	0.01	µg/L	<0.01	100 µg/L	84.0	----	50	130	----	----
PCB 66	32598-10-0	0.01	µg/L	<0.01	100 µg/L	83.8	----	50	130	----	----
PCB 101	37680-73-2	0.01	µg/L	<0.01	100 µg/L	82.4	----	50	130	----	----
PCB 77	32598-13-3	0.01	µg/L	<0.01	100 µg/L	95.8	----	50	130	----	----
PCB 149	38380-04-0	0.01	µg/L	<0.01	100 µg/L	91.4	----	50	130	----	----



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EP-065A: PCB Single Congeners (QC Lot: 1181857) - Continued											
PCB 118	31508-00-6	0.01	µg/L	<0.01	100 µg/L	91.5	----	50	130	----	----
PCB 153	35065-27-1	0.01	µg/L	<0.01	100 µg/L	91.4	----	50	130	----	----
PCB 105	32598-14-4	0.01	µg/L	<0.01	100 µg/L	91.2	----	50	130	----	----
PCB 126	57465-28-8	0.01	µg/L	<0.01	100 µg/L	94.8	----	50	130	----	----
PCB 187	52663-68-0	0.01	µg/L	<0.01	100 µg/L	90.0	----	50	130	----	----
PCB 128	38380-07-3	0.01	µg/L	<0.01	100 µg/L	89.7	----	50	130	----	----
PCB 156	38380-08-4	0.01	µg/L	<0.01	100 µg/L	84.7	----	50	130	----	----
PCB 180	35065-29-3	0.01	µg/L	<0.01	100 µg/L	85.4	----	50	130	----	----
PCB 169	60044-26-0	0.01	µg/L	<0.01	100 µg/L	82.7	----	50	130	----	----
PCB 170	35065-30-6	0.01	µg/L	<0.01	100 µg/L	86.3	----	50	130	----	----
PCB 195	52663-78-2	0.01	µg/L	<0.01	100 µg/L	84.0	----	50	130	----	----
EP-065B: Organochlorine Pesticides (QC Lot: 1181857)											
4,4'-DDT	50-29-3	0.01	µg/L	<0.01	25 µg/L	# Not Determined	----	50	130	----	----
4,4'-DDE	72-55-9	0.01	µg/L	<0.01	100 µg/L	# Not Determined	----	50	130	----	----
4,4'-DDD	72-54-8	0.01	µg/L	<0.01	100 µg/L	# Not Determined	----	50	130	----	----

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

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

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP-065S: PCB Congeners and Organochlorine Pesticides Surrogate			
Decachlorobiphenyl	2051-24-3	50	130



Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: ES0918392	Page	: 1 of 8
Client	: ALS TECHNICHEM (HK)	Laboratory	: Environmental Division Sydney
Contact	: MR IVAN LEUNG	Contact	: Charlie Pierce
Address	: 11/F CHUNG SHUN KNITTING CNTR 1-3 WING YIP STREET KWAI CHUNG, N.T HONG KONG HONG KONG	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
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Telephone	: +852 001185226101044	Telephone	: +61-2-8784 8555
Facsimile	: +852 26102021	Facsimile	: +61-2-8784 8500
Project	: ----	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 02-DEC-2009
C-O-C number	: ----	Issue Date	: 11-DEC-2009
Sampler	: ----	No. of samples received	: 18
Site	: ----	No. of samples analysed	: 18
Quote number	: SY/241/07		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Edwandy Fadjar	Senior Organic Chemist	Organics

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Work Order : ES0918392
Client : ALS TECHNICHEM (HK)
Project : ----



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for processing purposes. If the sampling time is displayed as 0:00 the information was not provided by client.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting



Analytical Results

Sub-Matrix: WATER

Client sample ID

Compound	CAS Number	LOR	Unit	HK0924723-1	HK0924723-2	HK0924723-3	HK0924723-4	HK0924723-5
				MPB1 MID-EBB	MPB1 MID-EBB-DUP	MPB2 MID-EBB	MPB2 MID-EBB DUP	MP MID-EBB
				Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time
				25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00
				ES0918392-001	ES0918392-002	ES0918392-003	ES0918392-004	ES0918392-005
EP132B: Polynuclear Aromatic Hydrocarbons								
3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	205-99-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	191-24-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	191-07-1	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	53-70-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	206-44-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	86-73-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	193-39-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perylene	198-55-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
EP132T: Base/Neutral Extractable Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	89.8	79.5	95.5	95.6	98.0
Anthracene-d10	1719-06-8	0.1	%	102	94.0	113	110	113
4-Terphenyl-d14	1718-51-0	0.1	%	99.9	89.2	108	112	115



Analytical Results

Sub-Matrix: WATER

Client sample ID

Compound	CAS Number	LOR	Unit	HK0924723-6 MP MID-EBB-DUP	HK0924723-7 C2 (NM5) MID-EBB	HK0924723-8 C2 (NM5) MID-EBB DUP	HK0924723-9 MPB1 MID-FLOOD	HK0924723-10 MPB1 MID-FLOOD-DUP
				Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time	Client sampling date / time
				25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00
				ES0918392-006	ES0918392-007	ES0918392-008	ES0918392-009	ES0918392-010
EP132B: Polynuclear Aromatic Hydrocarbons								
3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	205-99-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	191-24-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	191-07-1	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	53-70-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	206-44-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	86-73-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	193-39-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perylene	198-55-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
EP132T: Base/Neutral Extractable Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	95.1	113	94.4	78.2	95.9
Anthracene-d10	1719-06-8	0.1	%	109	129	111	96.3	115
4-Terphenyl-d14	1718-51-0	0.1	%	107	127	109	93.3	113

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 Client : ALS TECHNICHEM (HK)
 Project : ----



Analytical Results

Sub-Matrix: WATER

Client sample ID

Client sampling date / time

Compound	CAS Number	LOR	Unit	HK0924723-11	HK0924723-12	HK0924723-13	HK0924723-14	HK0924723-15
				MPB2 MID-FLOOD	MPB2 MID-FLOOD-DUP	MP MID-FLOOD	MP MID-FLOOD-DUP	C1 (NM3) MID-FLOOD
				25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00
				ES0918392-011	ES0918392-012	ES0918392-013	ES0918392-014	ES0918392-015
EP132B: Polynuclear Aromatic Hydrocarbons								
3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	205-99-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	191-24-2	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	191-07-1	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	53-70-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	206-44-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	86-73-7	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-cd)pyrene	193-39-5	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perylene	198-55-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
EP132T: Base/Neutral Extractable Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	82.0	88.4	107	93.8	83.6
Anthracene-d10	1719-06-8	0.1	%	100	101	119	107	103
4-Terphenyl-d14	1718-51-0	0.1	%	95.8	97.9	116	103	97.1

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 Work Order : ES0918392
 Client : ALS TECHNICHEM (HK)
 Project : ----



Analytical Results

Sub-Matrix: WATER				Client sample ID		HK0924723-16 C1 (NM3) MID-FLOOD-DUP	HK0924723-17 C3 (NM6) MID-FLOOD	HK0924723-18 C3 (NM6) MID-FLOOD-DUP	----	----
Client sampling date / time				25-NOV-2009 15:00		25-NOV-2009 15:00	25-NOV-2009 15:00	25-NOV-2009 15:00	----	----
Compound	CAS Number	LOR	Unit	ES0918392-016	ES0918392-017	ES0918392-018	----	----	----	----
EP132B: Polynuclear Aromatic Hydrocarbons										
3-Methylcholanthrene	56-49-5	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
2-Methylnaphthalene	91-57-6	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
7,12-Dimethylbenz(a)anthracene	57-97-6	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Acenaphthene	83-32-9	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Acenaphthylene	208-96-8	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Anthracene	120-12-7	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Benz(a)anthracene	56-55-3	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----	----	----
Benzo(b)fluoranthene	205-99-2	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Benzo(e)pyrene	192-97-2	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Chrysene	218-01-9	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Coronene	191-07-1	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Fluoranthene	206-44-0	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Fluorene	86-73-7	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Indeno(1,2,3,cd)pyrene	193-39-5	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
N-2-Fluorenyl Acetamide	53-96-3	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Naphthalene	91-20-3	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Perylene	198-55-0	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Phenanthrene	85-01-8	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
Pyrene	129-00-0	0.1	µg/L	<0.1	<0.1	<0.1	----	----	----	----
EP132T: Base/Neutral Extractable Surrogates										
2-Fluorobiphenyl	321-60-8	0.1	%	92.4	94.9	92.8	----	----	----	----
Anthracene-d10	1719-06-8	0.1	%	106	115	112	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	101	111	108	----	----	----	----

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Work Order : ES0918392
Client : ALS TECHNICHEM (HK)
Project : ----



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP132T: Base/Neutral Extractable Surrogates			
2-Fluorobiphenyl	321-60-8	43	116
Anthracene-d10	1719-06-8	27	133
4-Terphenyl-d14	1718-51-0	33	141



Environmental Division

QUALITY CONTROL REPORT

Work Order	: ES0918392	Page	: 1 of 5
Client	: ALS TECHNICHEM (HK)	Laboratory	: Environmental Division Sydney
Contact	: MR IVAN LEUNG	Contact	: Charlie Pierce
Address	: 11/F CHUNG SHUN KNITTING CNTR 1-3 WING YIP STREET KWAI CHUNG, N.T HONG KONG HONG KONG	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: ivan.leung@alsenviro.com	E-mail	: charlie.pierce@alsenviro.com
Telephone	: +852 001185226101044	Telephone	: +61-2-8784 8555
Facsimile	: +852 26102021	Facsimile	: +61-2-8784 8500
Project	: ----	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: ----	Date Samples Received	: 02-DEC-2009
C-O-C number	: ----	Issue Date	: 11-DEC-2009
Sampler	: ----	No. of samples received	: 18
Order number	: ----	No. of samples analysed	: 18
Quote number	: SY/241/07		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits



NATA Accredited Laboratory 825

This document is issued in accordance with NATA accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Edwandy Fadjar	Senior Organic Chemist	Organics

Page : 2 of 5
Work Order : ES0918392
Client : ALS TECHNICHEM (HK)
Project : ----



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB)	Laboratory Control Spike (LCS) Report				
				Report	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)	
				Result		LCS	Low	High	
EP132B: Polynuclear Aromatic Hydrocarbons (QCLot: 1182162)									
EP132: 3-Methylcholanthrene	56-49-5	0.10	µg/L	<0.1	2 µg/L	90.6	65.8	121	
EP132: 2-Methylnaphthalene	91-57-6	0.10	µg/L	<0.1	2 µg/L	75.0	67.7	112	
EP132: 7,12-Dimethylbenz(a)anthracene	57-97-6	0.10	µg/L	<0.1	2 µg/L	104	11.6	146	
EP132: Acenaphthene	83-32-9	0.10	µg/L	<0.1	2 µg/L	77.8	73.2	111	
EP132: Acenaphthylene	208-96-8	0.10	µg/L	<0.1	2 µg/L	79.8	72.4	112	
EP132: Anthracene	120-12-7	0.10	µg/L	<0.1	2 µg/L	83.1	73.4	113	
EP132: Benz(a)anthracene	56-55-3	0.10	µg/L	<0.1	2 µg/L	88.0	73.6	114	
EP132: Benzo(a)pyrene	50-32-8	0.05	µg/L	<0.05	2 µg/L	87.1	75.2	117	
EP132: Benzo(b)fluoranthene	205-99-2	0.10	µg/L	<0.1	2 µg/L	90.1	71.4	119	
EP132: Benzo(e)pyrene	192-97-2	0.10	µg/L	<0.1	2 µg/L	85.3	75.3	118	
EP132: Benzo(g,h,i)perylene	191-24-2	0.10	µg/L	<0.1	2 µg/L	87.2	66.6	121	
EP132: Benzo(k)fluoranthene	207-08-9	0.10	µg/L	<0.1	2 µg/L	# 70.4	74.8	118	
EP132: Chrysene	218-01-9	0.10	µg/L	<0.1	2 µg/L	85.6	69.6	120	
EP132: Coronene	191-07-1	0.10	µg/L	<0.1	2 µg/L	86.2	47.4	131	
EP132: Dibenzo(a,h)anthracene	53-70-3	0.10	µg/L	<0.1	2 µg/L	85.5	71.5	117	
EP132: Fluoranthene	206-44-0	0.10	µg/L	<0.1	2 µg/L	88.2	74.8	117	
EP132: Fluorene	86-73-7	0.10	µg/L	<0.1	2 µg/L	79.7	72.9	114	
EP132: Indeno(1,2,3-cd)pyrene	193-39-5	0.10	µg/L	<0.1	2 µg/L	85.3	67.8	119	
EP132: N-2-Fluorenyl Acetamide	53-96-3	0.10	µg/L	<0.1	20 µg/L	67.9	53.6	131	
EP132: Naphthalene	91-20-3	0.10	µg/L	<0.1	2 µg/L	76.7	68.3	116	
EP132: Perylene	198-55-0	0.10	µg/L	<0.1	2 µg/L	88.0	68	122	
EP132: Phenanthrene	85-01-8	0.10	µg/L	<0.1	2 µg/L	84.5	74.8	112	
EP132: Pyrene	129-00-0	0.10	µg/L	<0.1	2 µg/L	87.0	75.1	117	

Annex I

Dolphin Sighting Records

Project name: EM&A for Permanent Aviation Fuel Facility (PAFF)

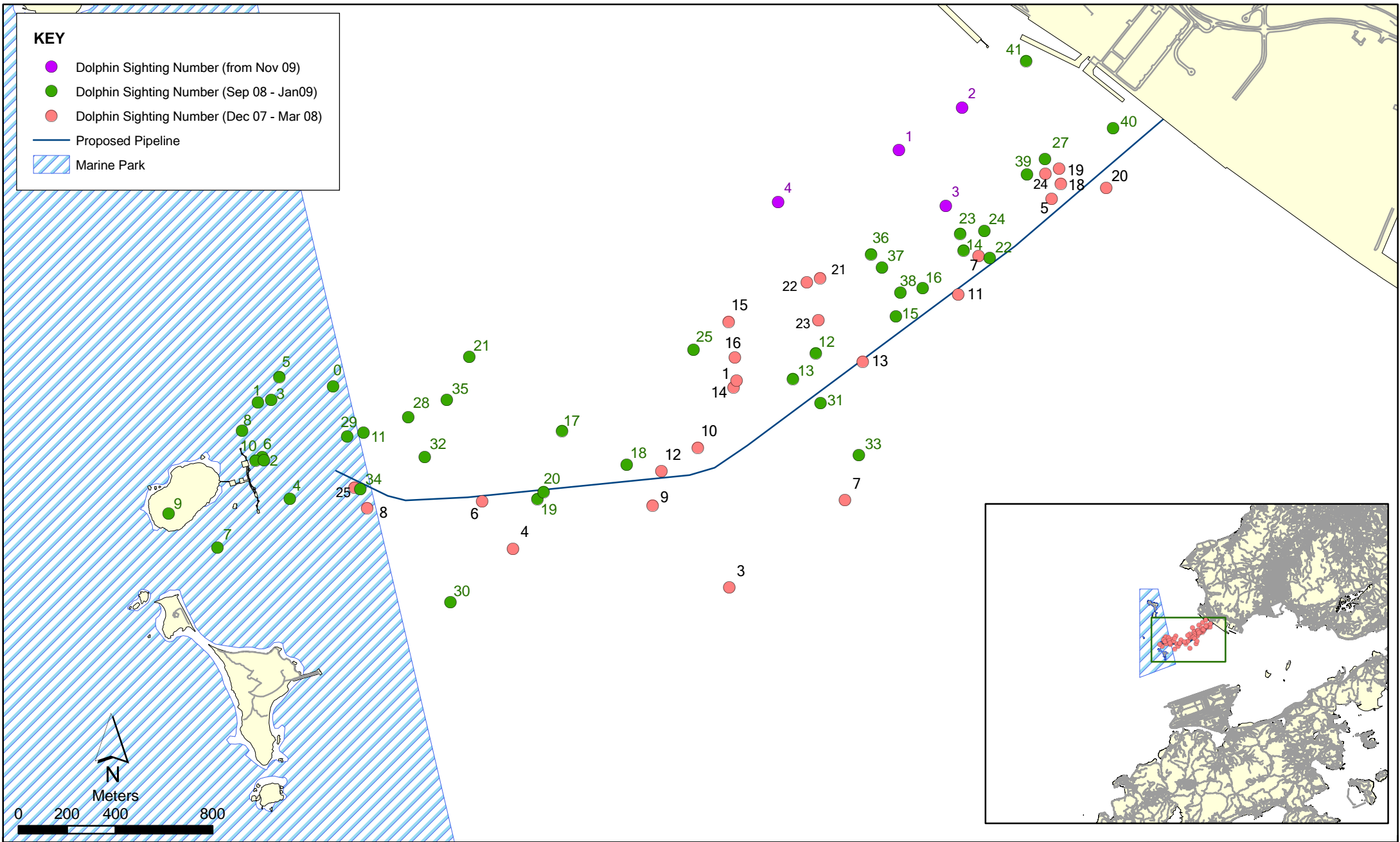
Activity: Dolphin Impact Monitoring - Tentative Schedule

*Remark: Record the number of dolphin occurrence within the 500m exclusion (A) prior to dredging and (B) during dredging OR (C) outside the exculsion zone

Week	Date		Derrick Lighters #38		Derrick Lighters #83		Grab dredger		Observer's Name
			No. of Dolphin Occurrence*	Sighting Sheet No.	No. of Dolphin	Sighting Sheet No.	No. of Dolphin Occurrence	Sighting Sheet No.	
1	Fri	13-Nov	0	-	Not in operation		Not in operation		Alvin Lee
	Sat	14-Nov	0	-	0	0	Not in operation		Richard Huang
	Sun	15-Nov	0	-	0	0	Not in operation		Richard Huang
2	Mon	16-Nov	0	-	2 (C)	1-2	Not in operation		Alvin Lee
	Tue	17-Nov	0	-	Not in operation		0	-	Richard Huang
	Wed	18-Nov	0	0	Not in operation		Not in operation		Francesca Zino
	Thu	19-Nov	1 (C)	3	Not in operation		0	-	Richard Huang
	Fri	20-Nov	0	-	Not in operation		0	-	Alvin Lee
	Sat	21-Nov	0	-	Not in operation		0	-	Richard Huang
	Sun	22-Nov	0	-	Not in operation		0	-	Alvin Lee
3	Mon	23-Nov	Not in operation		Not in operation		0	-	Alvin Lee
	Tue	24-Nov	0	-	Not in operation		0	-	Richard Huang
	Wed	25-Nov	1 (C)	4	Not in operation		0	-	Alvin Lee
	Thu	26-Nov	0	-	Not in operation		0	-	Anson Chow
	Fri	27-Nov	0	-	Not in operation		0	-	Alvin Lee
	Sat	28-Nov	0	-	Not in operation		0	-	Richard Huang
	Sun	29-Nov	0	-	Not in operation		0	-	Alvin Lee
4	Mon	30-Nov	0	-	Not in operation		0	-	Anson Chow

KEY

- Dolphin Sighting Number (from Nov 09)
- Dolphin Sighting Number (Sep 08 - Jan09)
- Dolphin Sighting Number (Dec 07 - Mar 08)
- Proposed Pipeline
- ▨ Marine Park



Dolphin Sighting Locations (as of 31 November 2009)