





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

Twenty-Fifth Monthly Environmental Monitoring and Audit Report – November 2008

15 December 2008

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15 December 2008

Prepared by: Karen Lui/Clement Pang/Craig A Reid

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| For and on behalf of Environmental Resources Management | | |
|--|---------------------------|--|
| Approved by: | Craig A Reid | |
| Signed: | lifti | |
| Position: | Environmental Team Leader | |
| Date: | 15 December 2008 | |
| | | |

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

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Permanent Aviation Fuel Facility for Hong Kong International Airport

Environmental Certification Sheet EP-262/2007/B

Reference Document/Plan

| Document/Plan-to be Certified / Verified: | 25th Monthly EM&A Report - November 2008 | |
|---|--|--|
| Document, Francio Decemineu, Vermeu. | 25 th Monthly EM&A Report - November 2008 | |
| Date of Report: | 15 December 2008 | |
| Date prepared by ET: | 15 December 2008 | |
| | 15 December 2000 | |
| Date received by IEC: | 15 December 2008 | |

Reference EP Condition

| Environm | ental Permit Condition: | Condition No.: 5.3 |
|----------|--------------------------------------|---|
| Content: | Environmental Monitoring and | d Audit (EM&A) for the Project |
| Dir | ector within 2 weeks after the end o | opy of the monthly EM&A Report for the Project shall be submitted to the f the reporting month. The submissions shall be certified by the ET Leader sion to the Director. Additional copies of the submission shall be provided |

ET Certification

| I hereby certify that the above reference | ed document/ plan complies | s with the above : | referenced condition of |
|---|---------------------------------------|--------------------|-------------------------|
| EP-262/2007/B | C. P.A | | |
| Craig A Reid, Environmental | Server . | Date: | 15 December 2008 |

IEC Verification

Team Leader:

| 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: |
|-------|
| |

16 Pec 2008

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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EXECUTIVE SUMMARY

The construction works for the Permanent Aviation Fuel Facility resumed on 9 July 2007. This **twenty-fifth** monthly Environmental Monitoring and Audit (EM&A) report presents the EM&A work carried out during the period from **1 November** to **30 November 2008** in accordance with the *EM&A Manual*.

Breaches of all Action and Limit Levels

No exceedances of any Action and Limit Levels applicable to the project were observed during the reporting period.

Complaint Log

No environmental complaints were received during the reporting period.

Notifications of any Summons and Successful Prosecutions

No environmental summon 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;
- Operation of dredging activities; 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 has been 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 issued by the EPD on 27 February 2008.

The construction works and EM&A requirements were resumed on 9th 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 **twenty-fifth** 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 2008**.

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*. Dredging operation was suspended from 1 April to 31 August 2008 and resumed on 1 September 2008. *Table 2.2* presents the cumulative quantity of excavated materials up to 30 November 2008. Daily and cumulative dredging production rates are illustrated in *Figure 2.1*.

Table 2.1Summary of Works Undertaken During the Reporting Period

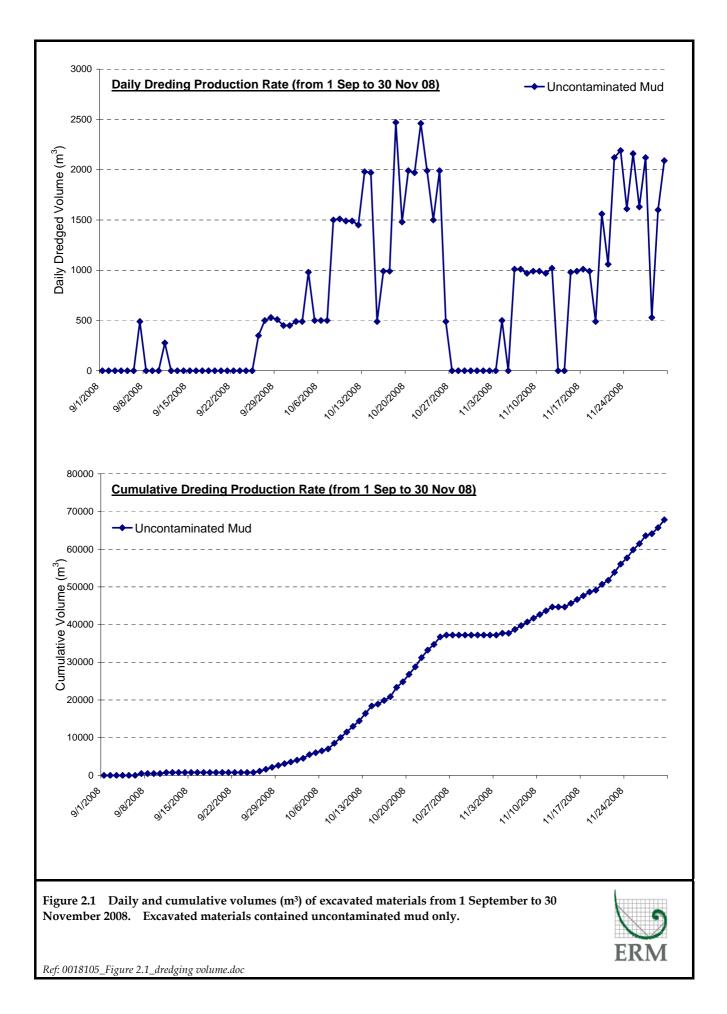
| Area | Works undertaken |
|--------------------------|--|
| Tuen Mun Area 38 | Tank Farm, Roof Truss and Bund Wall Construction |
| | Permanent Drainage Construction |
| | Operational & Fire Services Buildings Construction |
| | Jetty Works (Non-piling) |
| | |
| Submarine Pipeline Route | Dredging Operations |

Table 2.2Cumulative Quantity of Excavated Marine Sediments up to 30 November 2008

| Type of Excavated Materials | Cumulative Bulk Volume (m ³) |
|--|--|
| From 17 December 2007 to 31 March 2008 | |
| Contaminated Mud | 105,974 |
| Uncontaminated Mud | 97,815 |
| From 1 September to 30 November 2008 | |
| Contaminated Mud | 0 |
| Uncontaminated Mud | 67,807 |

2.4 MONITORING SCHEDULE OF THE REPORTING MONTH

Daily water quality monitoring during dredging activities recommenced on 1 September 2008. The monitoring schedule for November 2008 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 2.3Summary of Environmental Licensing, Notification and Permit Status

| Permit/ Licenses/ | Reference | Validity Period | Remarks |
|---|-----------------------------|--|---|
| Notification Environmental Permit | EP-262/2007/B | 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 | WPN 5111-421-L2174- 25 | Throughout Project | Issued on 10 November 2005 |
| Notification of Construction Works under Air Pollution Control (Construction Dust) Regulation | H2104/U1D/5542/DG/ DH/PL | Throughout Project | Notification on 6 July 2007 |
| Construction Noise Permit | GW-RW0676-07 | 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 |
| | 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 |

| Permit/ Licenses/ Notification | Reference | Validity Period | Remarks |
|-----------------------------------|--------------|--|--|
| Nomication | 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 |
| | GW-RW0368-08 | 1 September to 30 November 2008 | For marine dredging operation including grab dredger, tug boat, split hopper barge and motor sampan |
| 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 |
|-----------------------------------|--------------------|-------------------------------------|---|
| | EP/MD/08-091 | 3 March to 31 March 2008 | For Type 1 - Open Sea Disposal |
| | EP/MD/09-018 | 1 September to 30 September 2008 | For Type 1d & Type 2 marine disposal |
| | EP/MD/09-032 | 1 October to 31 October 2008 | For Type 1d & Type 2 marine disposal |
| | EP/MD/09-017 | 1 September to 30 November 2008 | For Type 1 - Open Sea Disposal |
| Wastewater Discharge License | EP760/421/011399/l | 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) shall be established within three months after 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.

The details of the CLG (including Membership and its Terms of Reference) can be found on the Project website (<u>http://www.paffhk.com</u>).

2.7 SUMMARY OF NON-COMPLIANCE WITH THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

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

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 ENVIRONMENTAL ISSUES AND ACTIONS

3.1 Previous Environmental Deficiencies and Follow-up Actions

As no environmental complaint was received over the last reporting period, no follow-up action was required.

Weekly site inspections were carried out by the ET on 4, 12, 20 and 26 November 2008. Overall, the site was in good orderly manner and no noncompliances were found. Environmental deficiencies and follow-up actions/mitigation measures were identified during the inspections, as follows:

Air Quality

• On 4 November 2008, waste trucks were observed to be leaving the work site with open skips. The Contractor was reminded to ensure that skip doors on loaded waste trucks were closed prior to departure from site.

Water Quality

- During the site inspection on 4 November 2008, sediments were observed in the oil interceptor and the car washing facility. The Contractor was recommended to clear sediments in the respective facilities as soon as possible.
- On 4 November 2008, soil, grit and refuse were observed in the storm drains along the southern boundary of the site. The Contractor was reminded to clear the storm drains as soon as possible to avoid runoffs of refuse into the sea.
- On 12 November 2008, stagnant water ponds were observed in the tank farm area. The Contractor was reminded to clear stagnant pools on site to avoid mosquito breeding.
- On 20 November 2008, a water hose behind the workshop was observed to be leaking. The Contractor was recommended to fix the leaking hose as soon as possible to avoid water wastage and unnecessary site runoffs.

Waste Management

• During the site inspection on 4 and 12 November 2008, general refuse was observed to be mixed with inert wastes in skips near the tank farms and the operation building. The Contractor was recommended to provide enough waste skips for proper segregation of inert and non-inert wastes on site. The Contractor was also reminded to maintain sub-contractors' awareness on waste management practices and housekeeping.

- On 20 November 2008, plastics were observed in the yellow bin of a set of 3-color bins near the tank farms. The Contractor was recommended to put paper, plastics and aluminium wastes in respective 3-color bins at all times.
- On 26 November 2008, chemical wastes were placed behind the workshop without drip trays and proper chemical labels. The Contractor was recommended to provide drip trays for the temporary storage of chemical wastes in areas aside from the main chemical waste store.
- On 26 November 2008, the chemical waste store near the workshop was observed to be full. The Contractor was recommended to arrange collection of chemical wastes by a licensed Contractor as soon as possible.

With the exception of the above observations, the site was in a good orderly manner. 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 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, water quality monitoring recommenced on 1 September 2008 alongside dredging activities. 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 turbidity, dissolved oxygen (DO) and suspended solids (SS) levels of all Impact Stations were compliant with the Action and Limit (AL) Levels specified in the *EM&A Manual*.

4.3 POPs MONITORING

Biweekly monitoring of POPs in water samples was conducted on 12 and 26 November for POPs analysis. At the time of this report, results were available for total PCBs, total DDTs and total PAHs on 22 October and 12 November. All POPs parameters were below detection limits. Monitoring results and QA/QC reports for POPs testing are presented in *Annex H*.

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 05 November 2007.

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 transplanted trees were in good and healthy condition.

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

4.7 LAND CONTAMINATION, HAZARD TO LIFE AND FUEL SPILL RISK

The ET and IEC verified updated design audit plan was submitted to the EPD on 7 November 2007.

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 with *EM&A Manual*, dolphin monitoring has been undertaken during dredging activities since 1 September 2008. During the reporting period, a total of 9 dolphin sightings were recorded. Appropriate action was taken in accordance with 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 has been updated by the ET to include the detailed arrangements of setting up a Community Liaison Group, carrying out design audit, and monitoring of Persistent Organic Pollutants during construction of the Project. Further comments were received from the EPD on 22 January 2008. The revised *EM&A Manual* has been verified by the IEC and was submitted to EPD on 2 December 2008.

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 ONE MONTH

Key issues to be considered in the next one month will be:

- Dust release and suppression;
- Operation of dredging activities; and,
- Water quality monitoring and dolphin monitoring during the dredging activities.

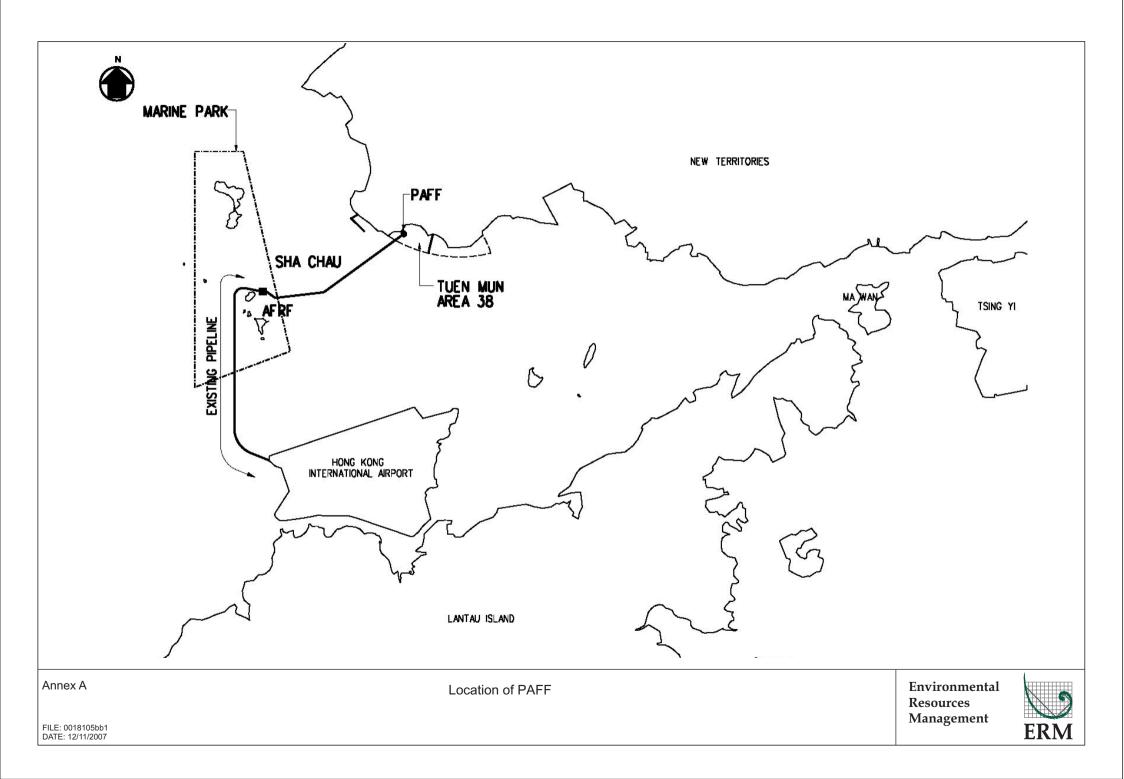
5.2 IMPACT PREDICTION FOR THE NEXT ONE MONTH

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

5.3 WORKS AND MONITORING SCHEDULE FOR THE NEXT ONE MONTH

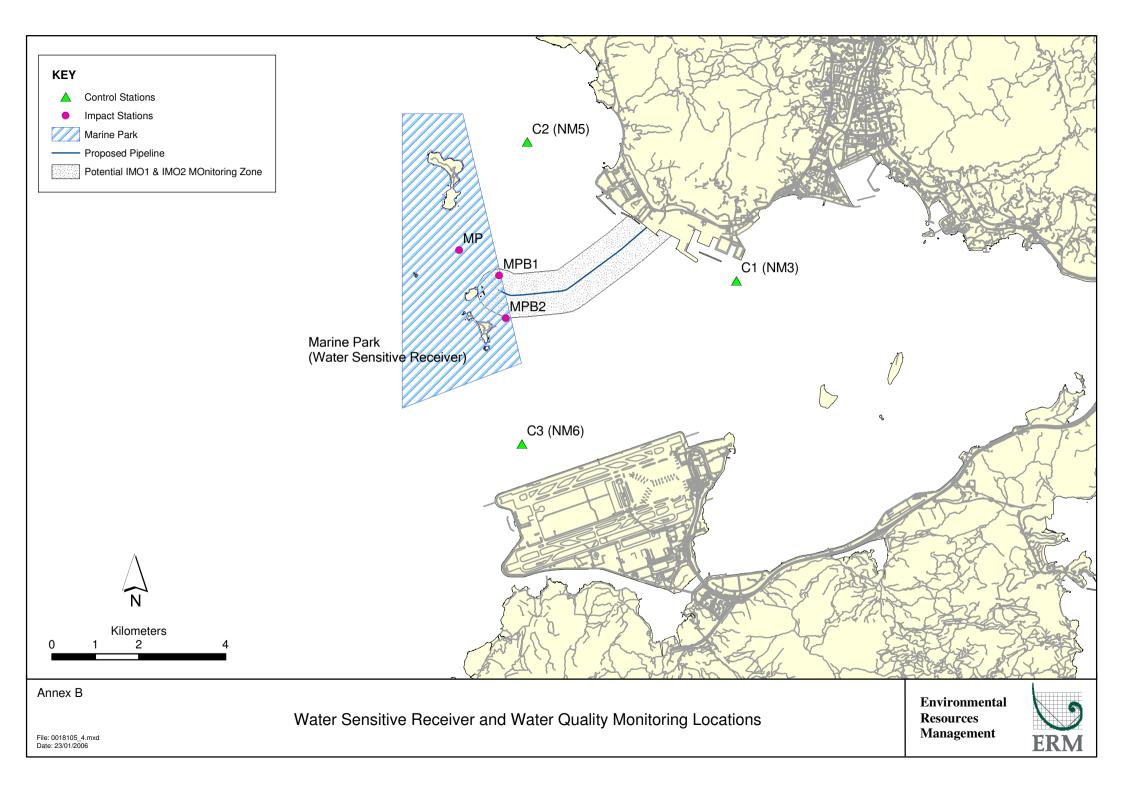
Work programme for the next one month includes jetty platform works (nonpiling), site works (construction works for tank farm, operational and fire services buildings, pump platform, drainages, bund wall, security wall etc) and dredging operations. Weekly site inspections will be undertaken. Water quality and dolphin monitoring will be undertaken in accordance with the *EM&A Manual*. Annex A

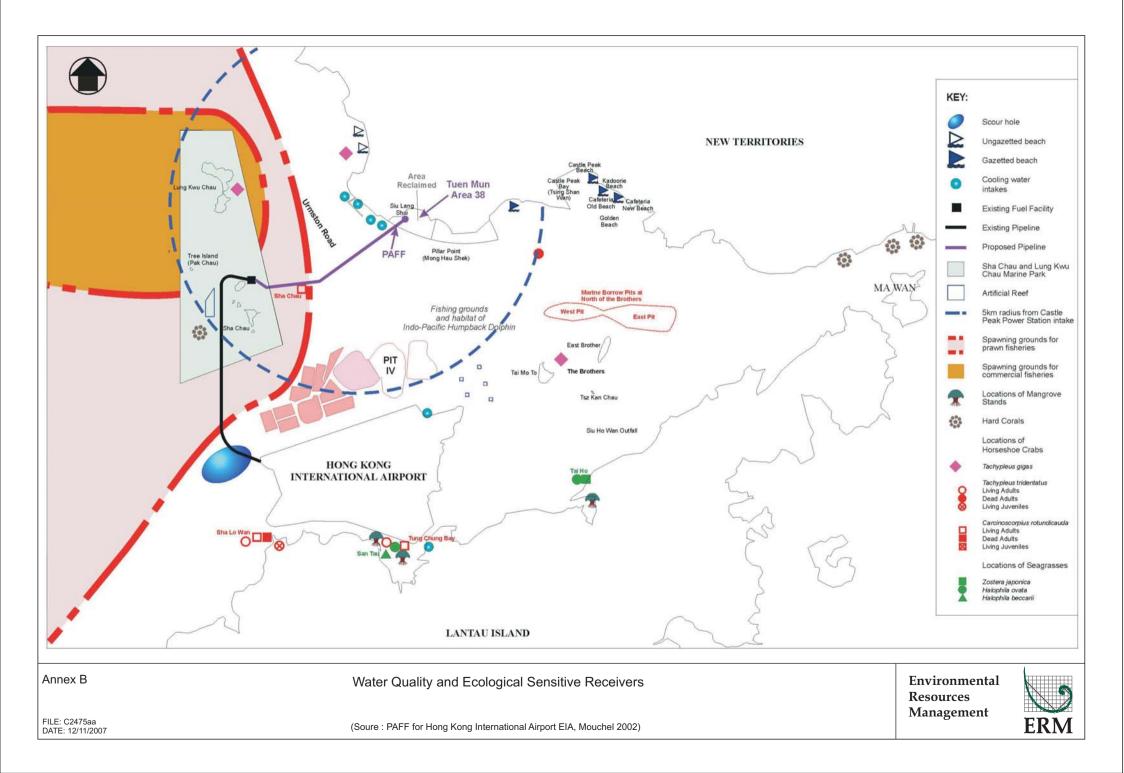
Project Location



Annex B

Water Quality Monitoring Stations, Water Quality and Ecological Sensitive Receivers





Annex C

Monitoring Schedule for the Reporting Period and Next Month

PAFF Impact Water Quality Monitoring Schedule for November 2008

| Sun | nday | Mond | lay | Tues | sday | Wedne | esday | Thurs | day | Fric | lay | Satur | day |
|------------------------|-------------|----------------------|-----------|----------------------|--------|-----------------------------------|---------------------------------|----------------------|-----------|----------------------|--------|----------------------|----------------|
| | | | | | | | | | | | | | 01-Nov |
| | | | | | | | | | | | | No WQ Mo | onitoring* |
| | 02-Nov | | 03-Nov | | 04-Nov | | 05-Nov | | 06-Nov | | 07-Nov | | 08-Nov |
| No WQ M | lonitoring* | No WQ Mo | nitoring* | No WQ M | • | Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | 8:17 15:51 |
| | 09-Nov | | 10-Nov | | 11-Nov | | 12-Nov | | 13-Nov | | 14-Nov | | 15-Nov |
| Mid-Flood Mid-Flood | | Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | 11:05 | (POP samp Mid-Flood Mid-Ebb | oling) 11:51 17:34 | No WQ M | onitoring | No WQ M | 0 | Mid-Flood Mid-Ebb | 14:13 19:18 |
| | 16-Nov | | 17-Nov | | 18-Nov | | 19-Nov | | 20-Nov | | 21-Nov | | 22-Nov |
| Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | | Mid-Flood Mid-Ebb | | Mid-Ebb Mid-Flood | 8:47 15:34 |
| | 23-Nov | | 24-Nov | | 25-Nov | | 26-Nov | | 27-Nov | | 28-Nov | | 29-Nov |
| Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | 11:28 | (POP samp Mid-Ebb Mid-Flood | 12:10 | Mid-Ebb Mid-Flood | - | Mid-Ebb Mid-Flood | | Mid-Ebb Mid-Flood | 13:52 18:45 |
| Mid-Ebb | 9.30 | | | | | | | | | | | | |

Mid-Ebb 9:30 Mid-Flood 14:23

*Dredging operation was not carried out and hence no water quality monitoring was undertaken

PAFF Tentative Impact Water Quality Monitoring Schedule for December 2008

| Sund | lay | Mond | lay | Tues | day | Wedne | esday | Thurs | day | Frid | ay | Satur | day |
|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| | 30-Nov | | 01-Dec | | 02-Dec | | 03-Dec | | 04-Dec | | 05-Dec | | 06-Dec |
| | | | | | | | | | | | | | |
| | | Mid-Flood | 10:09 | Mid-Flood | 10:49 | Mid-Flood | 11:33 | Mid-Ebb | 4:27 | Mid-Flood | 5:10 | Mid-Ebb | 13:56 |
| | | Mid-Ebb | 14:54 | Mid-Ebb | 15:25 | Mid-Ebb | 16:04 | Mid-Flood | 16:50 | Mid-Ebb | 13:21 | Mid-Flood | 20:09 |
| | 07-Dec | | 08-Dec | | 09-Dec | | 10-Dec | | 11-Dec | | 12-Dec | | 13-Dec |
| | | | | | | (POP samp | oling) | | | | | | |
| Mid-Ebb | 14:27 | Mid-Ebb | 8:21 | Mid-Ebb | 9:29 | Mid-Ebb | 10:32 | Mid-Ebb | 11:31 | Mid-Ebb | 12:25 | Mid-Ebb | 13:15 |
| Mid-Flood | 21:02 | Mid-Flood | 14:59 | Mid-Flood | 15:32 | Mid-Flood | 16:09 | Mid-Flood | 16:48 | Mid-Flood | 17:31 | Mid-Flood | 18:16 |
| | 14-Dec | | 15-Dec | | 16-Dec | | 17-Dec | | 18-Dec | | 19-Dec | | 20-Dec |
| | | | | | | | | | | | | | |
| Mid-Ebb | 14:03 | Mid-Flood | 9:49 | Mid-Flood | 10:36 | Mid-Flood | 11:22 | Mid-Flood | 12:09 | Mid-Flood | 12:57 | Mid-Flood | 13:42 |
| Mid-Flood | 19:04 | Mid-Ebb | 14:52 | Mid-Ebb | 15:41 | Mid-Ebb | 16:34 | Mid-Ebb | 17:35 | Mid-Ebb | 18:54 | Mid-Ebb | 20:14 |
| | 21-Dec | | 22-Dec | | 23-Dec | | 24-Dec | | 25-Dec | | 26-Dec | | 27-Dec |
| | | | | | | (POP samp | oling) | | | | | | |
| Mid-Flood | 14:22 | Mid-Ebb | 9:02 | Mid-Ebb | 10:14 | Mid-Ebb | 11:08 | Mid-Ebb | 11:49 | Mid-Ebb | 12:25 | Mid-Ebb | 13:00 |
| Mid-Ebb | 9:26 | Mid-Flood | 14:56 | Mid-Flood | 15:28 | Mid-Flood | 16:00 | Mid-Flood | 16:36 | Mid-Flood | 17:13 | Mid-Flood | 17:50 |
| | 28-Dec | | 29-Dec | | 30-Dec | | 31-Dec | | 01-Jan | | 02-Jan | | 03-Jan |
| | | | | | | | | | | | | | |
| Mid-Ebb | 13:35 | Mid-Ebb | 14:09 | Mid-Flood | 9:41 | Mid-Flood | 10:09 | | | | | | |
| Mid-Flood | 18:28 | Mid-Flood | 19:06 | Mid-Ebb | 14:45 | Mid-Ebb | 15:21 | | | | | | |

Annex D

Cumulative Complaints Statistics

| Reporting Period | | Complaint Statistics | |
|---------------------|-----------|-----------------------------|------------------|
| | Frequency | Cumulative | Complaint Nature |
| Before construction | 1 | 1 | Dust |
| works | | | |
| 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 |

Summary of Environmental Complaints

Re-commencement of construction works on 9th 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 |
| | | | |

Summary of Environmental Summons

| Reporting Period |] | Environmental Summo | ns |
|---------------------|-----------|---------------------|---------------|
| | 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 $9^{th}\,July\,2007$

| 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 |
| | | | |

Annex E

Implementation Programme of Mitigation Measures

ANNEX E IMPLEMENTATION SCHEDULE

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or | | plementati Schedule | | Maintenance Agency | Implementation Status |
|------------------|----------------|--|---|-------------------------|--|---|------------------------|---|-----------------------|--------------------------|
| | Reference | | | | Requirement | D | C | 0 | | |
| Water Qua | lity | | | | | | | | | |
| 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 | On going |
| 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 | On going |
| 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 | On going |
| 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 | On going |
| 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 | On going |
| 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 | On going |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | In D | nplementation Schedule C O | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|--|--|-------------------------|--|---------|----------------------------------|-----------------------|--------------------------|
| 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 | On going |
| 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. | Q | Contractor | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | | Y | N/A | On going |
| 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 | On going |
| 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 | On going |
| 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 | Ongoing |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | Im D | plementation Schedule C O | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|--|--|-------------------------|--|---------|---------------------------------|-----------------------|--------------------------|
| 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 | Pending |
| 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 | | Υ | 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 | In D | pleme Sched C | | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|---|--|-------------------------|---|---------|---------------------|---|-----------------------|--------------------------|
| 6.7 | 6.8.1 | Temporary access roads should be surfaced with crushed stone or gravel. | Land site/ Throughout construction period | Contractor | Requirement TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards | | <u>- с</u> Ү | 0 | 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) o nsite 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 | Im D | | entation edule C O | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|--|--|-------------------------|--|---------|---|--------------------------|-----------------------|--------------------------|
| 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 | | J | (| 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 | | Ŋ | (| 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 | | Ŋ | (| 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 | | J | (| 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 | | Ŋ | (| 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 | | Ŋ | (| N/A | Ongoing |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant | Implementation | | | Maintenance | Implementation |
|------------------|-----------------------------|---|--|-------------------------|---|----------------|-----------|-----------|-------------|----------------|
| | | | | | Standard or Requirement | D | Sche C | dule O | Agency | Status |
| 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 | | Ŷ | , | 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 | | У | , | 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 | | У | , | 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 | | У | , | 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 | | У | , | 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 | У | , | Franchisee | On going |
| 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 | Implementation Schedule | | | | Implementation |
|------------------|-----------------------------|---|----------------------|-------------------------|---|----------------------------|---|---|------------|----------------|
| | | | | | Requirement | D | C | 0 | Agency | Status |
| 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 | | Υ | | 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 | In D | Sc | menta hedul C | | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|---|--|-------------------------|--|---------|----|---------------------|---|-----------------------|--------------------------|
| 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 | Ongoing |
| 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 within 3 months of 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 | Franchisee | EM&A Manual | | | | Υ | 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 | Im D | plement Schedu C | | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|--|--|-------------------------|--|---------|------------------------|---|-----------------------|--------------------------|
| 7.8 | 5.3 | A 250m 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/throug hout dredging in Marine Park and along the length of pipeline | Contractor | TMEIA | | Y | | N/A | Ongoing |
| 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 | Ongoing |
| 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 |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or | Im | plement Schedu | | Maintenance Agency | Implementation Status |
|------------------|----------------|---|---|-------------------------|-------------------------|----|-------------------|---|-----------------------|--------------------------|
| | Reference | | 0 | 0 | Requirement | D | С | 0 | 0 | |
| 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 |
| 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 permeable 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. | 1 | Project Proponent | TMEIA | Y | Y | Y | N/A | Ongoing |

Cultural Heritage

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | In | - | | Maintenance | Implementation |
|-----------|---------------------|---|-----------------------------------|----------------|----------------------------|----|---|---------------|-------------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | | hedule C O | Agency | Status |
| 9.8.1 | 9.2.1 | Undertake a watching brief during dredging of the pipeline within 25m either side of anomalies SS1 and SS2. This should comprise: | Within vicinity of SS1 and SS2 | Franchisee | TMEIA | | | Y | N/A | Ongoing |
| | | • 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 bought on deck for cleaning and examination; and, | | | | | | | | |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | Im D | - | edule | on Maintenance Agency | Implementation Status |
|------------------|-----------------------------|---|------------------------------|-------------------------|--|----------|---|-------|--------------------------|--------------------------|
| | herenee | • Duodaina ta accosin the nominated | | | nequitement | <u> </u> | | | <u> </u> | |
| | | 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. | | | | | | | | |
| 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 | With vicinity of SS1 and SS2 | Franchisee | TMEIA | | Ŋ | (| N/A | Ongoing |
| | | impact assessment in accordance with EIAO TM Annex 19 will be required to be undertaken by a qualified marine archaeologist. | | | | | | | | |
| 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 | Pipeline alignment | Franchisee | TMEIA | | J | (| N/A | Ongoing |
| | | assessment is required. | | | | | | | | |
| Fuel Spill I | | | | | | | | | | |
| 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. | | Franchisee | TMEIA | Y | | | N/A | On going |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | | plementa | | Maintenance | Implementation |
|-----------|-----------|---|-----------------|----------------|-------------|---|----------|---|-------------|----------------|
| Reference | Manual | | Timing | Agent | Standard or | | Schedul | | Agency | Status |
| | Reference | | | | Requirement | D | С | 0 | | |
| 11.4.1 | 10.2 | An automatic shut-off system shall be | Pipelines/ | Franchisee | TMEIA | Y | | | N/A | On going |
| | | implemented for pipelines. | Design Phase | | | | | | | |
| 11.4.1 | 10.2 | A workboat shall be on standby at the | Jetty/ During | Franchisee | TMEIA | Y | | Υ | N/A | Pending |
| | | jetty during tanker berthing. | Tanker Berth | | | | | | | |
| 11.4.1 | 10.2 | Skimmers shall be available for quick | Jetty/ During | Franchisee | TMEIA | Y | | Y | N/A | Pending |
| | | deployment in case of a spill. | Tanker Berth | | | | | | | |
| 11.4.1 | 10.2 | An emergency response plan shall be | Jetty/ During | Franchisee | TMEIA | Y | | Υ | N/A | Pending |
| | | prepared prior to the operation of the | Tanker Berth | | | | | | | |
| | | PAFF. | | | | | | | | |
| 11.4.1 | 10.2 | Operator-training programme shall be | Jetty/ During | Franchisee | TMEIA | Y | | Y | N/A | Pending |
| | | implemented. | Tanker Berth | | | | | | | |
| 11.6 | 10.4 | During the planning of the later phase of | During | Franchisee | TMEIA | | | Y | N/A | Pending |
| | | the tank farm development, in order to | planning stage | | | | | | | |
| | | ensure that the required mitigation | for future tank | | | | | | | |
| | | measures are undertaken at that time, | construction | | | | | | | |
| | | review the EIA report only if the latest | | | | | | | | |
| | | technology, industrial standards and | | | | | | | | |
| | | statutory requirements have changed by | | | | | | | | |
| | | that time. | | | | | | | | |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | Im D | plement Schedu C | | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|--|--|-------------------------|--|---------|------------------------|---|-----------------------|--------------------------|
| 11.6 | 10.4 | Regular inspections and audits will be undertaken by the Franchisee during the operational phase of the facility: | Operation | Franchisee | TMEIA | | | Y | N/A | Pending |
| | | • 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. | | | | | | | | |
| 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. | Within 3 months of start of operation of the PAFF with audits every 24 months | Franchisee | TMEIA | | | Y | N/A | Pending |
| Land Conta | mination | I | | | | | | | | |
| 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. | ç | Franchisee | TMEIA | Y | | | N/A | On going |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | - | | | Maintenance | Implementation |
|-----------|---------------------|--|-----------------------|----------------|----------------------------|---|-------------|---------|-------------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | Schedu C | le O | Agency | Status |
| 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 |
| 13.5.5 | 10.2 | The facility shall be designed, | 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. | | Franchisee | TMEIA | Y | Y | Y | N/A | On going |
| 13.5.5 | 10.2 | Tank overfill 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 |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | Imp | lement | ation | Maintenance | Implementation |
|-----------|-----------|---|--------------------------|----------------|---------------------|-----|--------|-------|-------------|----------------|
| Reference | Manual | | Timing | Agent | Standard or | 9 | Schedu | le | Agency | Status |
| | Reference | | | | Requirement | D | С | 0 | | |
| 13.5.5 | 10.2 | Drainage from areas of hardstanding | Tank farm / | Franchisee | TMEIA | Y | Y | Y | N/A | On going |
| | | shall be treated by means of oil/water | Design | | | | | | | |
| | | separators prior to discharge to storm | | | | | | | | |
| | | drain. All surface drainage shall be | | | | | | | | |
| | | fitted with closure valves to provided | | | | | | | | |
| | | additional containment and facilitate | | | | | | | | |
| | | clean up of any leaks. | | | | | | | | |
| 13.5.5 | 10.2 | The delivery pipeline from the jetty and | Tank farm / | Franchisee | TMEIA | Y | Y | | N/A | On going |
| | | the supply line to the airport shall be | Design | | | | | | | |
| | | fitted with pressure sensitive leak | | | | | | | | |
| | | detectors. | | | | | | | | |
| Waste Man | - | | _ | _ | | | | | / . | |
| 14.7.2 | 8.3.1 | The Contractor shall identify a | Contract | Contractor | TMEIA | | Y | | N/A | Ongoing |
| | | coordinator for the management of | mobilisation | | | | | | | |
| 1470 | 0.0.1 | waste. | Combrad | Combrador | | | V | | NT / A | Onesia |
| 14.7.2 | 8.3.1 | The waste coordinator shall prepare and | Contract mobilisation | Contractor | TMEIA, Works | | Y | | N/A | Ongoing |
| | | implement a Waste Management Plan which specifies procedures such as | mobilisation | | Branch Technical | | | | | |
| | | ticketing system, to facilitate tracking of | | | Circular No. | | | | | |
| | | loads and to ensure that illegal disposal | | | 5/99 for the | | | | | |
| | | of waste does not occur, and protocols | | | Trip-ticket | | | | | |
| | | for the maintenance of records of the | | | System for | | | | | |
| | | quantities of wastes generated, recycled | | | Disposal of | | | | | |
| | | and disposal. | | | Construction | | | | | |
| | | 1 | | | and Demolition | | | | | |
| | | | | | Material | | | | | |
| | | | | | | | | | | |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | In | - | nentati | on | Maintenance | Implementation |
|-----------|---------------------|--|---|----------------|--|----|----------|---------|----|-------------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | Sch (| edule | 0 | Agency | Status |
| 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. | | | ſ | | N/A | Ongoing |
| 14.7.2 | 8.3.1 | No waste shall be burnt on site. | PAFF Site throughout construction period | Contractor | TMEIA | | | ſ | | 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 / | Contractor | TMEIA | | | l | | N/A | Ongoing |
| 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 | Contractor | TMEIA | | | ſ | | 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 |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | In | | mentation | Maintenance | Implementation |
|-----------|---------------------|---|--|----------------|--|----|----|---------------|-------------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | Sc | hedule C O | Agency | Status |
| 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 | | | Υ | 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 | | 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 |
| 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 |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | In D | menta hedulo C | | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|---|---|-------------------------|---|---------|----------------------|---|-----------------------|--------------------------|
| 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 | D | <u>Y</u> | 0 | N/A | Ongoing |
| 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 | | Υ | | 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 | | Υ | | N/A | Ongoing |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | In | nplementation | | Implementation |
|-----------|---------------------|---|--------------------------------------|----------------|-----------------------------|----|-----------------|--------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | Schedule C O | Agency | Status |
| 14.7.2 | 8.3.1 | Suitable chemical waste storage areas | Works site/ | Contractor | TMEIA, Code of | | Y | N/A | Ongoing |
| | | should be formed at the works site for | throughout | | Practice on the | | | | |
| | | temporary storage pending collection. | construction | | Packaging, | | | | |
| | | | period | | Labelling and | | | | |
| | | | | | Storage of | | | | |
| | | | | | Chemical | | | | |
| | | | | | Wastes. A | | | | |
| | | | | | Guide to the | | | | |
| | | | | | Chemical Waste | | | | |
| 1470 | 0.0.1 | | C \cdot 1 \cdot | с. н. н. | Control Scheme | | N | | O . |
| 14.7.2 | 8.3.1 | A licensed contractor shall be employed | Chemical waste | Contractor | TMEIA, Code of | | Y | N/A | Ongoing |
| | | to collect chemical waste for delivery to a | | | Practice on the | | | | |
| | | licensed treatment facility. | facility at Tsing Yi / throughout | | Packaging, Labelling and | | | | |
| | | | construction | | Storage of | | | | |
| | | | period | | Chemical | | | | |
| | | | penda | | Wastes. A | | | | |
| | | | | | Guide to the | | | | |
| | | | | | Chemical Waste | | | | |
| | | | | | Control Scheme | | | | |
| 14.7.2 | 8.3.1 | Temporary storage areas for general | All areas/ | Contractor | TMEIA, Public | | Y | N/A | Ongoing |
| | | refuse should be enclosed to avoid | throughout | | Health and | | | | 0 0 |
| | | environmental impacts. | construction | | Municipal | | | | |
| | | * | period | | Services | | | | |
| | | | - | | Ordinance | | | | |
| 14.7.2 | 8.3.1 | Sufficient dustbins should be provided | All areas/ | Contractor | TMEIA, Public | | Y | N/A | Ongoing |
| | | for storage of waste. | throughout | | Cleansing and | | | | |
| | | | construction | | Prevention of | | | | |
| | | | period | | Nuisances | | | | |
| | | | | | Ordinance | | | | |
| | | | | | (Regional | | | | |
| | | | | | Council) By- | | | | |
| | | | | | laws, Public | | | | |
| | | | | | Health and | | | | |
| | | | | | Municipal | | | | |
| | | | | | Services | | | | |
| | | | | | Ordinance | | | | |

| EIA | EM&A | Environmental Protection Measures | Location / | Implementation | Relevant | Im | plementa | | | Implementation |
|-----------|---------------------|---|--|----------------|--|----|--------------|--------|--------|----------------|
| Reference | Manual Reference | | Timing | Agent | Standard or Requirement | D | Schedul C | e O | Agency | Status |
| 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 | D | <u> </u> | 0 | N/A | Ongoing |
| 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 | Ongoing |
| 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 |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or Requirement | Im D | plemen Schedu C | Maintenance Agency | Implementation Status |
|------------------|-----------------------------|---|--|-------------------------|--|---------|-----------------------|-----------------------|--------------------------|
| 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 |
| 14.7.2 | 8.3.1 | All storage areas for chemical waste shall be: | PAFF site/ throughout construction | Contractor | TMEIA | | Y | N/A | Ongoing |
| | | Clearly labelled;Enclosed on at least 3 sides; | period | | | | | | |
| | | • Have impermeable floor and bunding sufficient to fully retain any spillage or leakages; | | | | | | | |
| | | • Ventilated; and, | | | | | | | |
| | | Covered to prevent rainfall from entering. | | | | | | | |
| 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 an 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 |

| EIA Reference | EM&A Manual | Environmental Protection Measures | Location / Timing | Implementation Agent | Relevant Standard or | Im | mplementation Schedule | | Maintenance Agency | Implementation Status |
|------------------|----------------|---|----------------------|-------------------------|-------------------------|----|---------------------------|---|-----------------------|--------------------------|
| | Reference | | | | Requirement | D | С | 0 | | |
| 14.7.2 | 8.3.1 | EM&A of waste handling, storage, | All areas/ | Contractor | TMEIA | | Y | | N/A | Ongoing |
| Section 5 | | transportation, disposal procedures and | throughout | | | | | | | |
| | | documentation through the site audit | construction | | | | | | | |
| | | programme shall be undertaken. | period | | | | | | | |

Annex F

QA/QC Results for Laboratory Testing of Suspended Solids

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0818077 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING'S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ☆ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 2 05-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 10-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818077 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818077 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 806636) | | | | | | | | |
| HK0818077-002 | MP S DUP ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 6 | 21.2 | | |
| HK0818077-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 5 | 5 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 806637) | | | | | | | | |
| HK0818077-024 | IMO1 B DUP ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 6 | 6 | 0.0 | | |
| HK0818077-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 9 | 16.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 806638) | | | | | | | | |
| HK0818077-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 5 | 5 | 0.0 | | |
| HK0818077-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 7 | 6 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 806639) | | | | | | | | |
| HK0818077-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 6 | 6 | 0.0 | | |
| HK0818077-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 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 | | | | | | | |
|--|--|--------------------------|------|--------|--|------------------|-----|----------|------------|-------|---------------|--|
| | | | | | Spike | Spike Spike Recc | | Recovery | Limits (%) | RPD | s (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties (| EA/ED: Physical and Aggregate Properties (QCLot: 806636) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 107 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (| EA/ED: Physical and Aggregate Properties (QCLot: 806637) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 107 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (| QCLot: 806638) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 806639) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 97.0 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | : MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0818078 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 2 06-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 11-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0818078 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0818078 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 807152) | | | | | | | | |
| HK0818078-001 | MP S ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 9 | 9 | 0.0 | | |
| HK0818078-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 8 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807153) | | | | | | | | |
| HK0818078-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 6 | 7 | 0.0 | | |
| HK0818078-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 9 | 16.2 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807154) | | | | | | | | |
| HK0818078-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 7 | 0.0 | | |
| HK0818078-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 7 | 8 | 19.2 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807155) | | | | | | | | |
| HK0818078-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 7 | 8 | 0.0 | | |
| HK0818078-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 2 | mg/L | 8 | 7 | 0.0 | | |

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

| Matrix: WATER | | | Method Blank (MB | 3) Report | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | te (DCS) Report | |
|---|--|-----|------------------|-----------|--|--------------------|-----|---------------------|------|-----------------|---------------|
| | | | | | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 807152) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 807153) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 807154) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | EA/ED: Physical and Aggregate Properties (QCLot: 807155) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0817250 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING'S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | 1110011200 | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | : +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 2 07-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 12-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817250 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817250 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 807961) | | | | | | | |
| HK0817250-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | |
| HK0817250-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807962) | | | | | | | |
| HK0817250-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | |
| HK0817250-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 14.7 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807963) | | | | | | | |
| HK0817250-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 | |
| HK0817250-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 807964) | | | | | | | |
| HK0817250-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | |
| HK0817250-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 0.0 | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|---------------------|------|----------|---------------|--|
| | | | | | Spike | Spike Rec | overy (%) | Recovery Limits (%) | | RPDs (%) | | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties (QCLot: 807961) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 807962) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.5 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | QCLot: 807963) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 106 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 807964) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0817251 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING'S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ☆ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 2 08-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 12-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817251 supersedes any previous reports with this reference. The completion date of analysis is . Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Specific comments for Work Order HK0817251 :

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

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



| 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 | d Aggregate Properties | (QC Lot: 808463) | | | | | | | |
| HK0817251-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | |
| HK0817251-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 808464) | | | | | | | |
| HK0817251-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 | |
| HK0817251-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 808465) | | | | | | | |
| HK0817251-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | |
| HK0817251-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 808466) | | | | | | | |
| HK0817251-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 4 | 0.0 | |
| HK0817251-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 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 | | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|--------------------|-----|------------|----------|---------------|--|
| | | | | | Spike | Spike Red | Spike Recovery (%) | | Limits (%) | RPDs (%) | | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties (QCLot: 808463) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 808464) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 808465) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (Q | EA/ED: Physical and Aggregate Properties (QCLot: 808466) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819022 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | 1110010022 | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | : 10-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 13-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819022 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819022 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 809310) | | | | | | | |
| HK0819022-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | |
| HK0819022-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 809311) | | | | | | | |
| HK0819022-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 19.7 | |
| HK0819022-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 809312) | | | | | | | |
| HK0819022-058 | MPB1 M DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 | |
| HK0819022-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 5 | 0.0 | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 809313) | | | | | | | |
| HK0819022-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | |
| HK0819022-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | | |
|--|---------------|--------------------------|------|--------|--|-----------|-----------|---------------------|------|----------|---------------|--|
| | | | | | Spike | Spike Rec | overy (%) | Recovery Limits (%) | | RPDs (%) | | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties (QCLot: 809310) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 809311) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 809312) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 809313) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819009 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | <u>;</u> | Date received | : 10-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 13-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819009 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819009 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 810627) | | | | | | | | |
| HK0819009-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 0.0 | | |
| HK0819009-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 12 | 13 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 810628) | | | | | | | | |
| HK0819009-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 13.3 | | |
| HK0819009-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 810629) | | | | | | | | |
| HK0819009-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 0.0 | | |
| HK0819009-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 12 | 12 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 810630) | | | | | | | | |
| HK0819009-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 10 | 0.0 | | |
| HK0819009-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | 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 | | | | | | |
|--|--------------|--------------------------|------|--------|--|-----------|-----------|------------|-----------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery L | imits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 810627) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 810628) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 97.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 810629) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 810630) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact Address E-mail Telephone | ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG Karen.Lui@erm.com +852 2271 3000 | Laboratory Contact Address E-mail Telephone | ALS Technichem (HK) Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Alice.Wong@alsenviro.com +852 2610 1044 | Page Work Order | ² 1 of 5 ² HK0819011 |
|---|--|---|---|---------------------------------|--|
| Facsimile Project | +852 2723 5660 EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Facsimile Quote number | : +852 2610 2021 : | Date received | ∴ 11-NOV-2008 |
| Order number C-O-C number Site | : : : | | | Date of issue No. of samples | : 14-NOV-2008 - Received : 74 - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819011 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819011 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties (| QC Lot: 811218) | | | | | | | | |
| HK0819011-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 0.0 | | |
| HK0819011-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 9 | 11.6 | | |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 811219) | | | | | | | | |
| HK0819011-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 9 | 0.0 | | |
| HK0819011-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 12 | 15.0 | | |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 811220) | | | | | | | | |
| HK0819011-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 | | |
| HK0819011-069 | IMO1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 811221) | | | | | | | | |
| HK0819011-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 11.5 | | |
| HK0819011-100 | C3 (NM6) M DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 10.9 | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|--|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RPD |)s (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties | EA/ED: Physical and Aggregate Properties (QCLot: 811218) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 811219) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 101 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties | (QCLot: 811220) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties | (QCLot: 811221) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 111 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | : MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819012 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∶ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | ∴ +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | : +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | : 12-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | : | | | Date of issue | : 17-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | <u>;</u> | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819012 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819012 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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|--|--|--|---|--|--|--|
| | Signatory Position Author Fung Lim Chee, Richard General Manager Inorga | | | | | |
| | · ···· J -···· · ········ | | | | | |



| 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 | d Aggregate Properties | (QC Lot: 813399) | | | | | | | | |
| HK0819012-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | | |
| HK0819012-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 813400) | | | | | | | | |
| HK0819012-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 7 | 0.0 | | |
| HK0819012-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 813401) | | | | | | | | |
| HK0819012-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 14.1 | | |
| HK0819012-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 813402) | | | | | | | | |
| HK0819012-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 | | |
| HK0819012-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | 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 | | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|--|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RPD | s (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 813399) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 813400) | | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | QCLot: 813401) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.0 | | 85 | 115 | | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 813402) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | : MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819013 | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 15-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 19-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819013 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819013 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



| 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 | d Aggregate Properties | (QC Lot: 815498) | | | | | | |
| HK0819013-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 12 | 0.0 |
| HK0819013-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815499) | | | | | | |
| HK0819013-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 15 | 16 | 0.0 |
| HK0819013-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815500) | | | | | | |
| HK0819013-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 13 | 13 | 0.0 |
| HK0819013-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815501) | | | | | | |
| HK0819013-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 13 | 14 | 0.0 |
| HK0819013-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 8 | 16.7 |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|----------------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (C | CLot: 815498) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 89.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 815499) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 92.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | QCLot: 815500) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 815501) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819021 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∴ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ☆ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | <u>;</u> | Date received | : 16-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | : 19-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819021 supersedes any previous reports with this reference. The completion date of analysis is . Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Specific comments for Work Order HK0819021 :

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

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | <i>I</i> latrix: 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 | d Aggregate Properties | (QC Lot: 815502) | | | | | | | | |
| HK0819021-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 8 | 23.6 | | |
| HK0819021-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815503) | | | | | | | | |
| HK0819021-018 | MPB2 B DUP ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 13 | 13 | 0.0 | | |
| HK0819021-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 12 | 11 | 10.6 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815504) | | | | | | | | |
| HK0819021-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 0.0 | | |
| HK0819021-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 10 | 0.0 | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 815505) | | | | | | | | |
| HK0819021-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 12 | 12 | 0.0 | | |
| HK0819021-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 0.0 | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 815502) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 815503) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 815504) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 110 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 815505) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.0 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | : MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819951 | |
| Address | 21/F, LINCOLN HOUSE, 979 KING`S ROAD, | Address | 11/F., Chung Shun Knitting Centre, | | | |
| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | Alice.Wong@alsenviro.com | | | |
| Telephone | ± +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
| Facsimile | ± +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | : 17-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | <u>;</u> | | | Date of issue | 20-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819951 supersedes any previous reports with this reference. The completion date of analysis is . Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

Specific comments for Work Order HK0819951 :

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

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | latrix: 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 | d Aggregate Properties (Q | C Lot: 816626) | | | | | | | | | |
| HK0819951-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 19.4 | | | |
| HK0819951-014 | MPB2 S DUP ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 816627) | | | | | | | | | |
| HK0819951-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 9 | 0.0 | | | |
| HK0819951-046 | C2 (NM5) M DUP ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 816628) | | | | | | | | | |
| HK0819951-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 12.8 | | | |
| HK0819951-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 18.4 | | | |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 816629) | | | | | | | | | |
| HK0819951-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 11 | 0.0 | | | |
| HK0819951-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 | | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 816626) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 92.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 816627) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 110 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | QCLot: 816628) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 109 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 816629) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
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| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | <u>;</u> | Date received | : 18-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | : | | | Date of issue | 21-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819020 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819020 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



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: 817919) | | | | | | | | |
| HK0819020-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | | |
| HK0819020-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 5 | 0.0 | | |
| EA/ED: Physical and | Aggregate Properties | (QC Lot: 817920) | | | | | | | | |
| HK0819020-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 5 | 0.0 | | |
| HK0819020-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | |
| EA/ED: Physical and | Aggregate Properties | (QC Lot: 817921) | | | | | | | | |
| HK0819020-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | |
| HK0819020-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 18.9 | | |
| EA/ED: Physical and | Aggregate Properties | (QC Lot: 817922) | | | | | | | | |
| HK0819020-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 | | |
| HK0819020-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 817919) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 97.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 817920) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 97.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | CLot: 817921) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (C | EA/ED: Physical and Aggregate Properties (QCLot: 817922) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact Address | ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, | Laboratory Contact Address | ALS Technichem (HK) Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, | Page Work Order | : 1 of 5 [:] HK0819017 |
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| Facsimile Project | +852 2723 5660 EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Facsimile Quote number | : +852 2610 2021 : | Date received | 20-NOV-2008 |
| Order number | ; | | | Date of issue | 25-NOV-2008 |
| C-O-C number Site | : : | | | No. of samples | - Received : 74 - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819017 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819017 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | atrix: 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 | d Aggregate Properties | (QC Lot: 820170) | | | | | | | | | |
| HK0819017-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 0.0 | | | |
| HK0819017-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 23.4 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820171) | | | | | | | | | |
| HK0819017-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 | | | |
| HK0819017-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820172) | | | | | | | | | |
| HK0819017-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 19.4 | | | |
| HK0819017-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820174) | | | | | | | | | |
| HK0819017-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | | |
| HK0819017-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 3 | 4 | 0.0 | | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|-----------------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties | (QCLot: 820170) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 87.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 820171) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 92.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties | (QCLot: 820172) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties | (QCLot: 820174) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 101 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact Address E-mail | ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG Karen.Lui@erm.com | Laboratory Contact Address E-mail | ALS Technichem (HK) Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Alice.Wong@alsenviro.com | Page Work Order | ² 1 of 5 ² HK0819019 |
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| Project | : EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Quote number | : | Date received | 20-NOV-2008 |
| Order number | : | | | Date of issue | 25-NOV-2008 |
| C-O-C number | : | | | No. of samples | - Received : 74 |
| Site | · | | | | - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819019 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819019 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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|--|---|-----------------------------|--|
| | of Hong Kong. Chapter 553. Section 6. <u>Signatory</u> Fung Lim Chee, Richard | Position General Manager | Authorised results for:- Inorganics |
| | rung Lim Chee, Nichard | General Manager | morganics |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | atrix: 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 | d Aggregate Properties | (QC Lot: 820901) | | | | | | | | | |
| HK0819019-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | | |
| HK0819019-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 18.3 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820902) | | | | | | | | | |
| HK0819019-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | | |
| HK0819019-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820903) | | | | | | | | | |
| HK0819019-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 | | | |
| HK0819019-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 820904) | | | | | | | | | |
| HK0819019-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 0.0 | | | |
| HK0819019-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 22.2 | | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|----------------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RPD |)s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties | QCLot: 820901) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 820902) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties | QCLot: 820903) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 96.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties | QCLot: 820904) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 97.0 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|--------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819018 | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 21-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 26-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819018 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819018 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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|--|---|-----------------|--------------------------|
| | of Hona Kona. Chapter 553. Section 6. <u>Signatory</u> | Position | Authorised results for:- |
| | Fung Lim Chee, Richard | General Manager | Inorganics |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|---------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 822258) | | | | | | |
| HK0819018-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 |
| HK0819018-015 | MPB2 M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 7 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 822259) | | | | | | |
| HK0819018-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| HK0819018-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 822260) | | | | | | |
| HK0819018-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| HK0819018-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 822261) | | | | | | |
| HK0819018-078 | IMO2 B DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 |
| HK0819018-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 4 | 0.0 |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|----------|--------------------------|------|--------|--|-----------|------------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | covery (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound CA | S Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: | 822258) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: | 822259) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: | 822260) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 105 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: | 822261) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 91.0 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|--------------|----|
| Contact | : MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819952 | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | : Karen.Lui@erm.com | E-mail | Alice.Wong@alsenviro.com | | | |
| Telephone | ∴ +852 2271 3000 | Telephone | : +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | <u>:</u> | Date received | 22-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | : | | | Date of issue | 26-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819952 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819952 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|--------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 822272) | | | | | | |
| HK0819952-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 |
| HK0819952-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 822273) | | | | | | |
| HK0819952-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 9 | 0.0 |
| HK0819952-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 3 | 4 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 822274) | | | | | | |
| HK0819952-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 2 | 2 | 0.0 |
| HK0819952-068 | IMO1 S DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 9 | 11.7 |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 822275) | | | | | | |
| HK0819952-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 11.5 |
| HK0819952-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 3 | 3 | 0.0 |

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

| Matrix: WATER | | | Method Blank (MB | 3) Report | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|--|-----|------------------|-----------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RP | Ds (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 822272) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 100 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | EA/ED: Physical and Aggregate Properties (QCLot: 822273) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 88.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 822274) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 822275) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 101 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact Address E-mail | ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, QUARRY BAY, HONG KONG Karen.Lui@erm.com | Laboratory Contact Address E-mail | ALS Technichem (HK) Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Alice.Wong@alsenviro.com | Page Work Order | 2 1 of 5 2 HK0819950 |
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| Project | : EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Quote number | : | Date received | 23-NOV-2008 |
| Order number | <u>:</u> | | | Date of issue | 26-NOV-2008 |
| C-O-C number | <u>;</u> | | | No. of samples | - Received : 74 |
| Site | · | | | | - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819950 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819950 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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|--|---|-----------------------------|--|
| | of Hong Kong. Chapter 553. Section 6. <u>Signatory</u> Fung Lim Chee, Richard | Position General Manager | Authorised results for:- Inorganics |
| | rung Lim Chee, Nichard | General Manager | morganics |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | atrix: WATER | | | | | ratory Duplicate (DUP) F | Report | |
|----------------------|--------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (| (QC Lot: 822268) | | | | | | |
| HK0819950-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 |
| HK0819950-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 14.7 |
| EA/ED: Physical and | d Aggregate Properties (| (QC Lot: 822269) | | | | | | |
| HK0819950-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 0.0 |
| HK0819950-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 11 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| (QC Lot: 822270) | | | | | | |
| HK0819950-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 |
| HK0819950-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| (QC Lot: 822271) | | | | | | |
| HK0819950-078 | IMO2 B DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 6 | 24.7 |
| HK0819950-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | 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 | 3) Report | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|-------------|-----|------------------|-----------|--|----------|------------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Re | covery (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCL | ot: 822268) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 822269) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCL | ot: 822270) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCL | ot: 822271) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 107 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|--------------|----|
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| E-mail | ∵ Karen.Lui@erm.com | E-mail | Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
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| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 24-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 27-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819953 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819953 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | rix: 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 | d Aggregate Properties | (QC Lot: 823922) | | | | | | | | | | | |
| HK0819953-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | | | | |
| HK0819953-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 823923) | | | | | | | | | | | |
| HK0819953-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | | | | | |
| HK0819953-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 | | | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 823924) | | | | | | | | | | | |
| HK0819953-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 | | | | | |
| HK0819953-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 5 | 0.0 | | | | | |
| EA/ED: Physical and | d Aggregate Properties | (QC Lot: 823925) | | | | | | | | | | | |
| HK0819953-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 5 | 22.7 | | | | | |
| HK0819953-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | | | | |

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

| Matrix: WATER | | | Method Blank (ME | 3) Report | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|--|-----|------------------|-----------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RP | Ds (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 823922) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | EA/ED: Physical and Aggregate Properties (QCLot: 823923) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 106 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 823924) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 91.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 823925) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | : ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|--------------|----|
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | ; | Date received | 25-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 28-NOV-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819954 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819954 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. 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 |
| | Fung Lim Gnee, Richard | General Manager | inorganics |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|----------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (QC | Lot: 825119) | | | | | | |
| HK0819954-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| HK0819954-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (QC | Lot: 825120) | | | | | | |
| HK0819954-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 7 | 16.0 |
| HK0819954-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 19.1 |
| EA/ED: Physical and | d Aggregate Properties (QC | Lot: 825121) | | | | | | |
| HK0819954-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| HK0819954-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 12.4 |
| EA/ED: Physical and | Aggregate Properties (QC | Lot: 825122) | | | | | | |
| HK0819954-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 0.0 |
| HK0819954-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 11.3 |

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 | | | | | | |
|--|---------------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RP | Ds (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QC | CLot: 825119) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | CLot: 825120) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 101 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | CLot: 825121) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 89.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | CLot: 825122) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 94.0 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
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| | TAIKOO PLACE, ISLAND EAST, | | 1 - 3 Wing Yip Street, | | | |
| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
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| Telephone | : +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
| Facsimile | 2 +852 2723 5660 | Facsimile | : +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 26-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 2 01-DEC-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819956 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819956 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



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 | d Aggregate Properties (C | QC Lot: 827410) | | | | | | | | | |
| HK0819956-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 12 | 0.0 | | | |
| HK0819956-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827411) | | | | | | | | | |
| HK0819956-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 | | | |
| HK0819956-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 16.9 | | | |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827412) | | | | | | | | | |
| HK0819956-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 | | | |
| HK0819956-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 0.0 | | | |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827413) | | | | | | | | | |
| HK0819956-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 | | | |
| HK0819956-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 | | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|---------------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RP | Ds (%) |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 827410) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 827411) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 827412) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (Q | CLot: 827413) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 87.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819957 | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∴ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
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| Facsimile | : +852 2723 5660 | Facsimile | ÷ +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 27-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 2 03-DEC-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819957 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819957 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) I | Report | |
|----------------------|---------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827805) | | | | | | |
| HK0819957-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 |
| HK0819957-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827806) | | | | | | |
| HK0819957-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 11 | 0.0 |
| HK0819957-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827807) | | | | | | |
| HK0819957-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 0.0 |
| HK0819957-068 | IMO1 S DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 10 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (C | QC Lot: 827808) | | | | | | |
| HK0819957-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 16.2 |
| HK0819957-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 8 | 0.0 |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Red | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound CAS Nu | nber | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 8278 | 05) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 95.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8278 | 06) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8278 | 07) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 103 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8278 | 08) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 96.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client | : ERM HONG KONG | Laboratory | ALS Technichem (HK) Pty Ltd | Page | ∴ 1 of 5 | |
|--------------|--|--------------|------------------------------------|----------------|---------------|----|
| Contact | 🖞 MS KAREN LUI | Contact | 🖞 Wong Wai Man, Alice | Work Order | HK0819958 | |
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| | QUARRY BAY, HONG KONG | | Kwai Chung, N.T., Hong Kong | | | |
| E-mail | ∵ Karen.Lui@erm.com | E-mail | : Alice.Wong@alsenviro.com | | | |
| Telephone | : +852 2271 3000 | Telephone | ÷ +852 2610 1044 | | | |
| Facsimile | : +852 2723 5660 | Facsimile | : +852 2610 2021 | | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL | Quote number | : | Date received | 28-NOV-2008 | |
| | FACILITY | | | | | |
| Order number | ; | | | Date of issue | 2 03-DEC-2008 | |
| C-O-C number | : | | | No. of samples | - Received : | 74 |
| Site | : | | | | - Analysed : | 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819958 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819958 :

Sample(s) were collected by ALS Technichem (HK) staff on 28 November, 2008. 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 |
| | | - | - |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|---------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 828172) | | | | | | |
| HK0819958-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| HK0819958-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 828173) | | | | | | |
| HK0819958-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 |
| HK0819958-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 6 | 6 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 828174) | | | | | | |
| HK0819958-060 | MPB1 B DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 16.1 |
| HK0819958-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 7 | 20.2 |
| EA/ED: Physical and | d Aggregate Properties (Q | C Lot: 828175) | | | | | | |
| HK0819958-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 6 | 0.0 |
| HK0819958-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 5 | 0.0 |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|--------|--------------------------|------|--------|--|--------------------|-----|---------------------|------|----------|---------------|
| | | | | | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| Method: Compound CAS N | lumber | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 8172) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 8173) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 89.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 8174) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 106 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 8175) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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| Facsimile Project | +852 2723 5660 EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Facsimile Quote number | : +852 2610 2021 : | Date received | 29-NOV-2008 |
| Order number | ; | | | Date of issue | 2 04-DEC-2008 |
| C-O-C number Site | : : | | | No. of samples | - Received : 74 - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819961 supersedes any previous reports with this reference. The completion date of analysis is . Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number. LOR = Limit of reporting.

Sample(s) were collected by ALS Technichem (HK) staff on 29 November, 2008.

Specific comments for Work Order HK0819961 :

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

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|---------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (0 | QC Lot: 829293) | | | | | | |
| HK0819961-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 0.0 |
| HK0819961-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 12 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (0 | QC Lot: 829294) | | | | | | |
| HK0819961-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 0.0 |
| HK0819961-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (0 | QC Lot: 829295) | | | | | | |
| HK0819961-058 | MPB1 M DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 0.0 |
| HK0819961-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 8 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (0 | QC Lot: 829296) | | | | | | |
| HK0819961-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 7 | 7 | 0.0 |
| HK0819961-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 11 | 10 | 0.0 |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|--------|--------------------------|------|--------|--|-----------|-----------|----------|------------|-------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery | Limits (%) | RPD | s (%) |
| Method: Compound CAS N | lumber | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 9293) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 93.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 9294) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 9295) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 98.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 82 | 9296) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 102 | | 85 | 115 | | |

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

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

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| Facsimile Project | +852 2723 5660 EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Facsimile Quote number | : +852 2610 2021 : | Date received | : 30-NOV-2008 |
| Order number | <u>:</u> | | | Date of issue | 2 03-DEC-2008 |
| C-O-C number Site | : : | | | No. of samples | - Received : 74 - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0819959 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0819959 :

Sample(s) were collected by ALS Technichem (HK) staff on 30 November, 2008. Water sample(s) analysed and reported on an as received basis.

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



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | | Labo | ratory Duplicate (DUP) F | Report | |
|----------------------|--------------------------|------------------------------|------------|-----|------|--------------------------|------------------|---------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 829289) | | | | | | |
| HK0819959-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 10 | 0.0 |
| HK0819959-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 8 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 829290) | | | | | | |
| HK0819959-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 10 | 0.0 |
| HK0819959-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 10 | 11 | 0.0 |
| EA/ED: Physical and | d Aggregate Properties (| QC Lot: 829291) | | | | | | |
| HK0819959-057 | MPB1 M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 0.0 |
| HK0819959-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 9 | 12.2 |
| EA/ED: Physical and | Aggregate Properties (| QC Lot: 829292) | | | | | | |
| HK0819959-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 8 | 10 | 17.9 |
| HK0819959-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 9 | 9 | 0.0 |

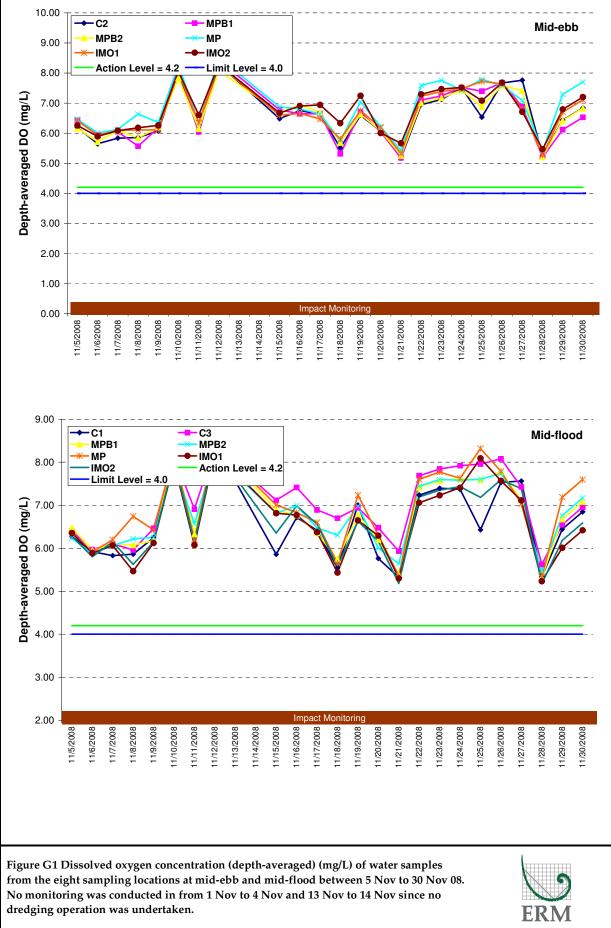
Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

| Matrix: WATER | | | Method Blank (MB | 3) Report | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|---|------|-----|------------------|-----------|--|--------------------|-----|---------------------|------|----------|---------------|
| | | | | | Spike | Spike Recovery (%) | | Recovery Limits (%) | | RPDs (%) | |
| Method: Compound CAS Nu | mber | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 8292 | 289) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 104 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8292 | 290) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 99.5 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8292 | 291) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 96.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 8292 | 292) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 90.5 | | 85 | 115 | | |

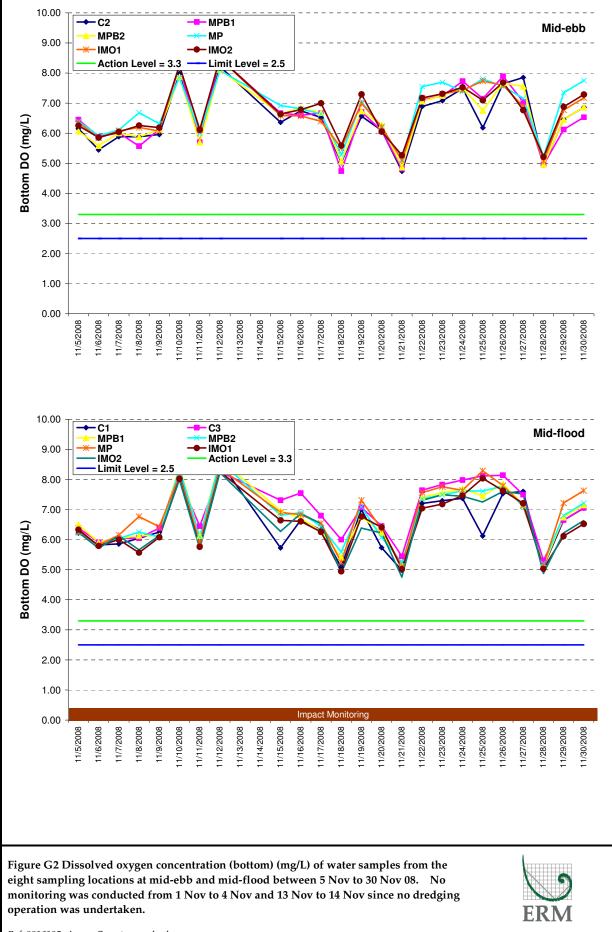
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Annex G

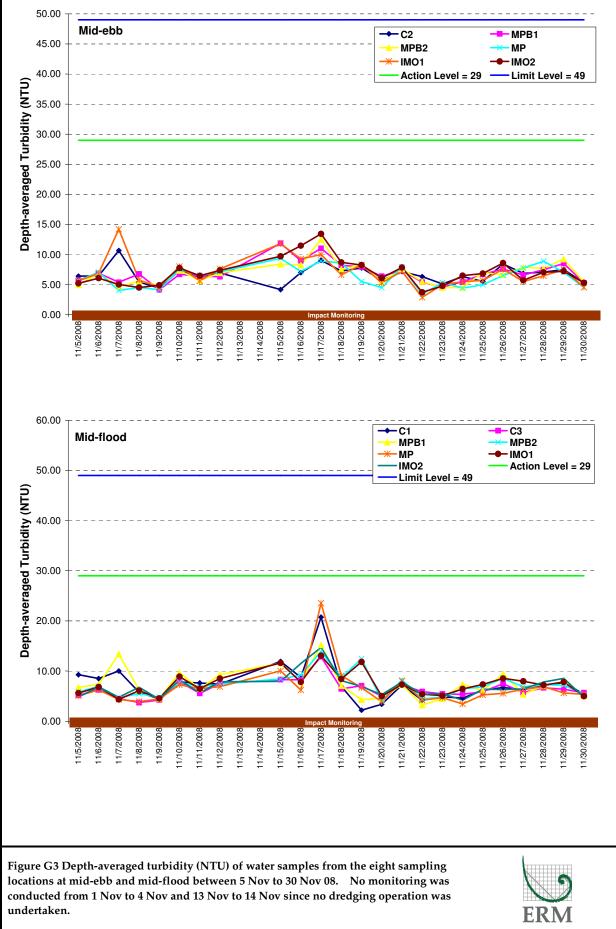
Impact Water Quality Monitoring Results



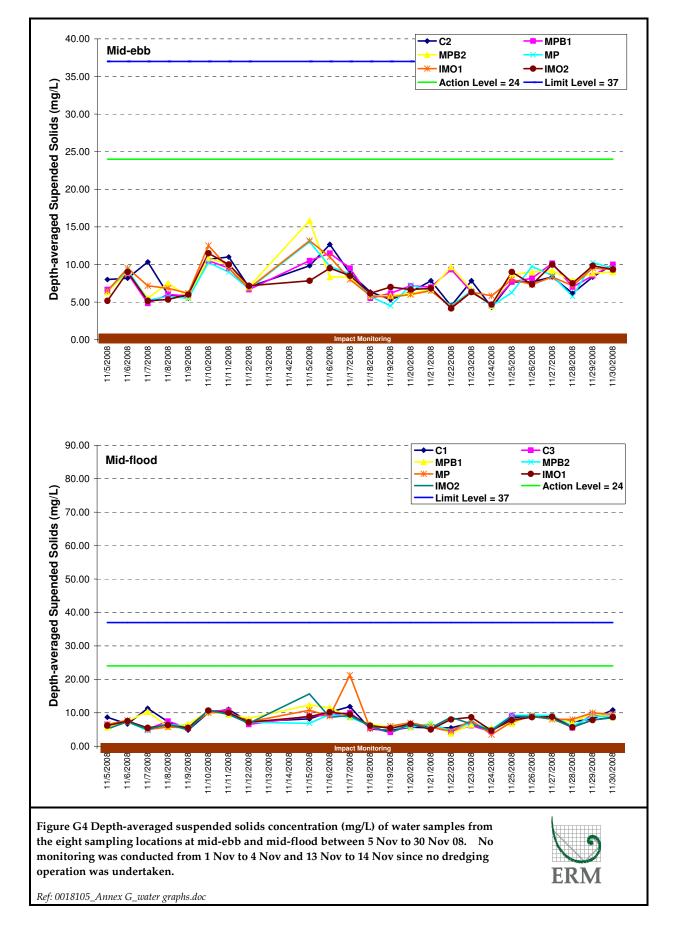
Ref: 0018105_Annex G_water graphs.doc



Ref: 0018105_Annex G_water graphs.doc



Ref: 0018105_Annex G_water graphs.doc



| Sampling Date | | | 11/5/2008 | | Ì | | | |
|-------------------------|---------|---------|-------------|-------------|--------------|---------|--------------------|------------|
| Weather & Ambient Tempe | erature | | Cloudy, 25C | | | | | |
| Station | | | C2 (| NM5) | | | ٦ | |
| Time (hh:mm) | | | | -4:34 | | | | |
| Water Depth (m) | | | | +.5+).6 | | | - | |
| 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) | 27.2 | 27.3 | 26.9 | 26.9 | 26.8 | 26.8 | 26.97 | - |
| Salinity (ppt) | 28.0 | 27.9 | 30.9 | 31.0 | 31.3 | 31.3 | 30.06 | - |
| pH | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.1 | 7.19 | |
| D.O. Saturation (%) | 93.6 | 94.2 | 90.0 | 91.0 | 91.6 | 92.3 | 92.12 | - |
| D.O. (mg/L) | 6.4 | 6.4 | 6.0 | 6.1 | 6.1 | 6.2 | 6.19 | 6.15 |
| Turbidity (NTU) | 4.5 | 4.2 | 6.1 | 6.2 | 8.8 | 8.6 | 6.40 | - |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 8.0 | 7.0 | 9.0 | 8.00 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |
| Station | | | IM | | Co-ordinates | | | |
| Time (hh:mm) | | | | -5:15 | | | Northing | Easting |
| Water Depth (m) | | | | .0 | | | 22.21.123 | 113.53.485 |
| Monitoring Depth (m) | 1 | .0 | | .5 | 8 | .0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 27.0 | 27.0 | 26.8 | 26.8 | 26.8 | 26.8 | 26.86 | - |
| Salinity (ppt) | 24.4 | 24.5 | 28.7 | 28.8 | 29.8 | 29.7 | 27.67 | - |
| pH | 7.2 | 7.2 | 7.3 | 7.2 | 7.3 | 7.3 | 7.24 | |
| D.O. Saturation (%) | 93.7 | 94.3 | 93.7 | 93.0 | 96.0 | 95.3 | 94.33 | - |
| D.O. (mg/L) | 6.5 | 6.5 | 6.4 | 6.3 | 6.5 | 6.43 | 6.43 | 6.45 |
| Turbidity (NTU) | 4.3 | 4.1 | 6.0 | 6.3 | 6.8 | 6.9 | 5.73 | - |
| SS (mg/L) | 7.0 | 6.0 | 7.0 | 6.0 | 8.0 | 6.0 | 6.67 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |
| Station | | | IM | 02 | | | Co-or | dinates |
| Time (hh:mm) | | | | -5:27 | | | Northing | Easting |
| Water Depth (m) | | | - | .8 | | | 22.21.070 | 113.54.143 |
| 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) | 27.0 | 27.0 | 27.0 | 27.0 | 26.9 | 26.9 | 26.95 | - |
| Salinity (ppt) | 26.5 | 26.6 | 29.7 | 29.6 | 30.2 | 30.2 | 28.80 | - |
| рН | 7.1 | 7.1 | 7.2 | 7.2 | 7.1 | 7.1 | 7.15 | |
| D.O. Saturation (%) | 92.2 | 92.2 | 90.5 | 90.7 | 90.1 | 90.5 | 91.03 | - |
| D.O. (mg/L) | 6.3 | 6.3 | 6.1 | 6.1 | 6.1 | 6.08 | 6.16 | 6.07 |
| Turbidity (NTU) | 3.7 | 3.8 | 4.9 | 5.2 | 5.9 | 6.1 | 4.93 | - |
| SS (mg/L) | 7.0 | 7.0 | 7.0 | 6.0 | 6.0 | 5.0 | 6.33 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

Mid-Ebb

| Station | | | MP | | | | | |
|------------------------|-------------|---------|---------|-------------|--------------|---------|--------------------|--------|
| Time (hh:mm) | | | | -5:05 | | | | |
| 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) | 27.0 | 27.0 | 26.8 | 26.8 | 26.7 | 26.7 | 26.84 | - |
| Salinity (ppt) | 24.4 | 24.3 | 28.5 | 28.4 | 29.8 | 29.8 | 27.54 | - |
| рН | 7.1 | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.17 | |
| D.O. Saturation (%) | 94.1 | 93.8 | 94.3 | 94.1 | 94.3 | 94.0 | 94.10 | - |
| D.O. (mg/L) | 6.5 | 6.5 | 6.4 | 6.4 | 6.4 | 6.3 | 6.41 | 6.35 |
| Turbidity (NTU) | 4.0 | 4.2 | 6.0 | 5.8 | 6.7 | 6.9 | 5.60 | - |
| SS (mg/L) | 7.0 | 5.0 | 7.0 | 7.0 | 7.0 | 6.0 | 6.50 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |
| | | | | | | | - | |
| Station | | | | PB2 | | | | |
| Time (hh:mm) | | | | -5:36 | | | | |
| Water Depth (m) | | | 8 | - | | | | |
| Monitoring Depth (m) | | .0 | | .4 | | .8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 27.0 | 27.0 | 26.9 | 26.9 | 26.9 | 26.9 | 26.91 | - |
| Salinity (ppt) | 24.7 | 24.7 | 29.4 | 29.4 | 30.0 | 30.0 | 28.03 | - |
| pH | 7.3 | 7.3 | 7.4 | 7.4 | 7.4 | 7.4 | 7.37 | |
| D.O. Saturation (%) | 91.7 | 91.6 | 91.1 | 91.8 | 92.3 | 93.5 | 92.00 | - |
| D.O. (mg/L) | 6.3 | 6.3 | 6.2 | 6.2 | 6.2 | 6.3 | 6.25 | 6.25 |
| Turbidity (NTU) | 3.4 | 3.6 | 5.8 | 5.6 | 6.5 | 6.3 | 5.20 | - |
| SS (mg/L) | 5.0 | 5.0 | 5.0 | 4.0 | 6.0 | 6.0 | 5.17 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |
| | | | | 0 0 | | | - | |
| Station | | | | IP | | | | |
| Time (hh:mm) | | | - | -4:56 | | | | |
| 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 (℃) | 27.0 | 27.0 | - | - | 26.8 | 26.9 | 17.94 | - |
| Salinity (ppt) | 23.6 | 23.7 | - | - | 28.8 | 28.9 | 17.50 | - |
| pH | 7.1 | 7.1 | - | - | 7.2 | 7.2 | 4.76 | |
| D.O. Saturation (%) | 93.8 | 94.2 | - | - | 94.8 | 94.0 | 62.80 | - |
| D.O. (mg/L) | 6.5 | 6.6 | - | - | 6.4 | 6.4 | 4.31 | 6.39 |
| Turkidity (NTU) | E 1 | 4.0 | | | 0.0 | 0.5 | 0.70 | |

6.2

7.0

No dredging works was observed.

6.5 5.0

3.78

6.50

-

5.1

6.0

Turbidity (NTU)

SS (mg/L)

Remarks

4.9

8.0

-

Compliance with Action and Limit Level

| Parameter | ∆s in | EM&A | C2*1 | 30% | IM | 01 | IM | 02 | | MPB1 | ME | PB2 | M | ID |
|----------------------------|-----------------|----------------|-----------------|----------------|----------|----|------------|------------|-----------------------------------|---------------------------|----------|-----|---|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | Exceedan | | Exceedance | Exceedance | Exceedanc e of Action Level | Exceedance of Limit Level | Exceedan | | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.2 | 6.2 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.3 | 8.3 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.4 | 10.4 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | | | 11/5/2008 | | | | | |
|-------------------------|---------|---------|-------------|---------|-------------|--------------|----------------|--------|
| Weather & Ambient Tempe | erature | | Cloudy, 26C | ; | | | | |
| a | | | | | | | | |
| Station | | | C1 (I | | | | | |
| Time (hh:mm) | | | 17:31 | | | | | |
| Water Depth (m) | | | 16 | 6.4 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.2 | 27.2 | 27.0 | 26.9 | 26.9 | 26.9 | 27.01 | - |
| Salinity (ppt) | 30.9 | 30.9 | 31.5 | 31.5 | 31.7 | 31.8 | 31.39 | - |
| pH | 7.1 | 7.2 | 7.0 | 7.1 | 7.0 | 7.0 | 7.07 | |
| D.O. Saturation (%) | 96.1 | 95.5 | 92.5 | 92.7 | 92.7 | 93.5 | 93.83 | - |
| D.O. (mg/L) | 6.4 | 6.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.27 | 6.22 |
| Turbidity (NTU) | 5.8 | 5.7 | 9.9 | 9.7 | 12.1 | 12.4 | 9.27 | - |
| SS (mg/L) | 9.0 | 9.0 | 8.0 | 9.0 | 9.0 | 8.0 | 8.67 | - |
| Remarks | | | | No dree | daing works | was observed | | |

| Station | | | C3 (| NM6) | | | | |
|-----------------------|---------|---------|---------|---------|-------------|--------------|----------------|--------|
| Time (hh:mm) | | | 16:03 | -16:05 | | | | |
| Water Depth (m) | | | 6 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 27.0 | 27.0 | 27.1 | 27.0 | 27.1 | 27.1 | 27.03 | - |
| Salinity (ppt) | 27.5 | 27.4 | 28.4 | 29.5 | 29.7 | 29.7 | 28.70 | - |
| pH | 7.1 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 | 7.12 | |
| D.O. Saturation (%) | 94.0 | 94.3 | 93.4 | 94.4 | 94.8 | 94.9 | 94.30 | - |
| D.O. (mg/L) | 6.4 | 6.5 | 6.4 | 6.4 | 6.4 | 6.4 | 6.40 | 6.39 |
| Turbidity (NTU) | 3.8 | 3.9 | 5.2 | 4.9 | 6.5 | 6.7 | 5.17 | - |
| SS (mg/L) | 7.0 | 8.0 | 8.0 | 6.50 | - | | | |
| Remarks | | | | No dree | dging works | was observed | | |

| Station | | | IM | 01 | | | Co-ordinates | | | |
|-----------------------|---------|---------|---------|---------|-------------|-------------|-------------------|---------|--|--|
| Time (hh:mm) | | | 16:54 | -16:56 | | | Northing | Easting | | |
| Water Depth (m) | | | 9 | .4 | | | 22.21.120 113.53. | | | |
| 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 (℃) | 27.2 | 27.2 | 26.9 | 26.9 | 26.9 | 26.9 | 27.01 | - | | |
| Salinity (ppt) | 24.6 | 24.6 | 29.0 | 28.9 | 30.3 | 30.3 | 27.94 | - | | |
| pH | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.25 | | | |
| D.O. Saturation (%) | 93.1 | 93.5 | 92.5 | 92.7 | 93.7 | 94.2 | 93.28 | - | | |
| D.O. (mg/L) | 6.4 | 6.5 | 6.3 | 6.3 | 6.3 | 6.4 | 6.36 | 6.33 | | |
| Turbidity (NTU) | 4.9 | 4.9 | 5.5 | 5.8 | 6.4 | 6.2 | 5.62 | - | | |
| SS (mg/L) | 7.0 | 5.0 | 6.0 | 5.0 | 8.0 | 6.0 | 6.17 | - | | |
| Remarks | | | | No dree | dging works | was observe | d. | | | |

| Station | | | IM | 02 | | | Co-ordinates | | | |
|------------------------|---------|---------|---------|---------|-------------|--------------|----------------|------------|--|--|
| Time (hh:mm) | | | 17:07 | -17:09 | | | Northing | Easting | | |
| Water Depth (m) | | | 9 | .0 | | | 22.21.062 | 113.54.140 | | |
| 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) | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.08 | - | | |
| Salinity (ppt) | 26.2 | 26.1 | 29.0 | 29.1 | 30.3 | 30.3 | 28.48 | - | | |
| pH | 7.2 | 7.2 | 7.2 7.2 | | 7.3 | 7.3 | 7.24 | | | |
| D.O. Saturation (%) | 93.2 | 92.9 | 91.2 | 92.3 | 93.2 | 92.6 | 92.57 | - | | |
| D.O. (mg/L) | 6.4 | 6.4 | 6.2 | 6.2 | 6.3 | 6.2 | 6.28 | 6.24 | | |
| Turbidity (NTU) | 3.6 | 3.8 | 4.9 | 4.7 | 6.0 | 6.0 | 4.83 | - | | |
| SS (mg/L) | 6.0 | 4.0 | 5.0 | 5.17 | - | | | | | |
| Remarks | | | | No dree | dging works | was observed | l | | | |

| Station | | | MF | PB1 | | | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|--|
| Time (hh:mm) | | | 16:35 | -16:37 | | | | | | | | | |
| Water Depth (m) | | | 8 | .6 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | | |
| Water Temperature (°C) | 27.2 | 27.2 | 26.9 | 26.9 | 26.8 | 26.8 | 26.98 | - | | | | | |
| Salinity (ppt) | 24.7 | 24.6 | 28.8 | 28.8 | 30.4 | 30.4 | 27.95 | - | | | | | |
| pH | 7.1 | 7.2 | 7.2 | 7.2 | 7.3 | 7.2 | 7.20 | | | | | | |
| D.O. Saturation (%) | 94.1 | 94.0 | 94.6 | 94.8 | 96.3 | 96.6 | 95.07 | - | | | | | |
| D.O. (mg/L) | 6.5 | 6.5 | 6.4 | 6.4 | 6.5 | 6.5 | 6.48 | 6.50 | | | | | |
| Turbidity (NTU) | 6.2 | 5.9 | 6.7 | 6.8 | 7.5 | 7.5 | 6.77 | - | | | | | |
| SS (mg/L) | 5.0 | 5.0 | 5.0 | 5.0 | 7.0 | 7.0 | 5.67 | - | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | | | |

| Station | | | MF | PB2 | | | | |
|------------------------|---------|---------|---------|-----------|-------------|-------------|----------------|--------|
| Time (hh:mm) | | | 16:24 | -16:26 | | | | |
| Water Depth (m) | | | 9 | | | | | |
| 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) | 27.1 | 27.1 | 27.0 | 27.0 | 27.0 | 27.0 | 27.04 | - |
| Salinity (ppt) | 25.0 | 25.0 | 29.8 | 29.8 | 30.3 | 30.3 | 28.35 | - |
| pH | 7.3 | 7.3 | 7.4 | 7.4 | 7.4 | 7.4 | 7.39 | |
| D.O. Saturation (%) | 92.2 | 91.3 | 91.3 | 91.1 | 92.7 | 92.2 | 91.80 | - |
| D.O. (mg/L) | 6.4 | 6.3 | 6.2 | 6.1 | 6.2 | 6.2 | 6.24 | 6.22 |
| Turbidity (NTU) | 4.4 | 4.5 | 6.3 | 6.1 | 6.8 | 7.0 | 5.85 | - |
| SS (mg/L) | 6.0 | 6.0 | 7.0 | 7.0 6.0 | | 6.0 | 6.33 | - |
| Remarks | | | | No dredgi | ng works wa | s observed. | | |

| Station | | | N | IP | | | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|--|
| Time (hh:mm) | | | 16:45 | -16:47 | | | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | | | |
| 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) | 27.2 | 27.1 | - | - | 27.0 | 27.0 | 18.06 | - | | | | | |
| Salinity (ppt) | 23.8 | 23.8 | - | - | 29.1 | 29.2 | 17.64 | - | | | | | |
| pH | 7.2 | 7.2 | - | - | 7.2 | 7.2 | 4.79 | | | | | | |
| D.O. Saturation (%) | 92.2 | 91.9 | - | - | 92.9 | 92.3 | 61.55 | - | | | | | |
| D.O. (mg/L) | 6.4 | 6.4 | - | - | 6.3 | 6.2 | 4.22 | 6.26 | | | | | |
| Turbidity (NTU) | 4.6 | 4.5 | - | - | 5.7 | 5.5 | 3.38 | - | | | | | |
| SS (mg/L) | 6.0 | 6.0 | - | - | 7.0 | 7.0 | 6.50 | - | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | | | |

Compliance with Action and Limit Level

| compliance with Action at | | ei | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1- | +C3)*130% | 6 IMO1 | | IMO2 | | | MPB1 | | 'B2 | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.3 | 6.3 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.3 | 6.3 | N | N | Ν | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.4 | 9.4 | N | N | Ν | N | N | N | N | Ν | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 9.9 | 9.9 | N | N | Ν | N | N | N | Ν | N | N | N |

| Sampling Date | 11/6/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 27C |

| Station | | | C2 (| NM5) | | |] | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 7:00 | -7:03 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .7 | 18 | 3.3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 26.7 | 26.7 | 26.5 | 26.4 | 26.3 | 26.3 | 26.48 | - | | | |
| Salinity (ppt) | 27.9 | 28.0 | 29.8 | 29.7 | 30.8 | 30.9 | 29.51 | - | | | |
| pH | 7.2 | 7.2 | 7.2 | 7.3 | 7.1 | 7.2 | 7.22 | | | | |
| D.O. Saturation (%) | 87.7 | 88.7 | 84.4 | 82.6 | 81.1 | 82.1 | 84.43 | - | | | |
| D.O. (mg/L) | 5.9 | 6.0 | 5.6 | 5.5 | 5.4 | 5.5 | 5.65 | 5.45 | | | |
| Turbidity (NTU) | 5.1 | 5.0 | 6.1 | 5.9 | 8.2 | 8.3 | 6.43 | - | | | |
| SS (mg/L) | 8.0 | 10.0 | 8.0 | 10.0 | 7.0 | 6.0 | 8.17 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | dinates |
|------------------------|---------|---------|-----------|-------------|--------------|---------|----------|---------|
| Time (hh:mm) | | | 6:07 | -6:09 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.126 | 113.53.476 | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 26.6 | 26.6 | 26.4 | 26.4 | 26.5 | 26.4 | 26.47 | - |
| Salinity (ppt) | 23.6 | 23.9 | 28.6 | 28.6 | 29.6 | 29.7 | 27.32 | - |
| рН | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.30 | |
| D.O. Saturation (%) | 87.8 | 88.2 | 86.5 | 86.8 | 87.2 | 87.8 | 87.38 | - |
| D.O. (mg/L) | 6.1 | 6.1 | 5.9 | 5.9 | 5.9 | 5.90 | 5.94 | 5.88 |
| Turbidity (NTU) | 5.7 | 5.7 | 7.0 | 6.8 | 8.1 | 8.0 | 6.88 | - |
| SS (mg/L) | 12.0 | 10.0 | 8.83 | - | | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | - |

| Station | | | IM | 02 | | | Co-ord | linates | | | |
|------------------------|---------|---------------------------------|---------|-----------|------------|---------|--------------------|---------|--|--|--|
| Time (hh:mm) | | | 5:56 | -5:58 | | | Northing | Easting | | | |
| Water Depth (m) | | | | 22.21.062 | 113.54.137 | | | | | | |
| 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) | 26.5 | 26.5 | 26.4 | 26.5 | 26.4 | 26.4 | 26.44 | - | | | |
| Salinity (ppt) | 26.1 | 25.3 | 29.2 | 29.0 | 30.6 | 30.6 | 28.46 | - | | | |
| pH | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.31 | | | | |
| D.O. Saturation (%) | 86.3 | 86.6 | 83.4 | 84.3 | 83.1 | 83.9 | 84.60 | - | | | |
| D.O. (mg/L) | 5.9 | 6.0 | 5.6 | 5.7 | 5.6 | 5.61 | 5.72 | 5.59 | | | |
| Turbidity (NTU) | 5.8 | 5.6 | 6.5 | 6.7 | 8.2 | 8.3 | 6.85 | - | | | |
| SS (mg/L) | 7.0 | 9.0 | 12.0 | 9.00 | - | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB1 | | | | | |
|-----------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | 6:34 | -6:36 | | | 1 | | |
| Water Depth (m) | | | | | | | | | |
| 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 (℃) | 26.6 | 26.6 | 26.4 | 26.4 | 26.4 | 26.4 | 26.45 | - | |
| Salinity (ppt) | 22.3 | 22.3 | 27.2 | 27.1 | 28.6 | 28.8 | 26.05 | - | |
| рН | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.28 | | |
| D.O. Saturation (%) | 87.8 | 87.2 | 86.5 | 86.2 | 86.3 | 86.6 | 86.77 | - | |
| D.O. (mg/L) | 6.1 | 6.1 | 5.9 | 5.9 | 5.8 | 5.9 | 5.93 | 5.84 | |
| Turbidity (NTU) | 5.7 | 5.9 | 7.1 | 6.9 | 7.8 | 7.8 | 6.87 | - | |
| SS (mg/L) | 7.0 | 8.0 | 12.0 | 9.0 | 9.0 | 12.0 | 9.50 | - | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Station | | | MP | B2 | | | 1 | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|
| Time (hh:mm) | | | 6:23 | -6:24 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .7 | 8 | .3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 26.7 | 26.6 | 26.5 | 26.6 | 26.6 | 26.5 | 26.58 | - | | | |
| Salinity (ppt) | 22.2 | 22.2 | 28.0 | 27.5 | 28.6 | 28.7 | 26.21 | - | | | |
| pH | 7.3 | 7.3 | 7.4 | 7.3 | 7.3 | 7.4 | 7.34 | | | | |
| D.O. Saturation (%) | 86.2 | 86.5 | 86.0 | 85.4 | 86.5 | 87.3 | 86.32 | - | | | |
| D.O. (mg/L) | 6.0 | 6.0 | 5.8 | 5.8 | 5.8 | 5.9 | 5.89 | 5.86 | | | |
| Turbidity (NTU) | 5.4 | 5.5 | 6.2 | 6.2 | 6.6 | 6.5 | 6.07 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | 9.0 | 9.00 | - | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | Μ | P | | | 1 | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 6:43 | -6:45 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 26.6 | 26.6 | - | - | 26.4 | 26.4 | 26.51 | - | | | |
| Salinity (ppt) | 21.9 | 22.0 | - | - | 27.5 | 27.7 | 24.79 | - | | | |
| pH | 7.2 | 7.2 | - | - | 7.2 | 7.2 | 7.16 | | | | |
| D.O. Saturation (%) | 87.1 | 87.7 | - | - | 88.0 | 86.7 | 87.38 | - | | | |
| D.O. (mg/L) | 6.1 | 6.1 | - | - | 6.0 | 5.9 | 6.01 | 5.92 | | | |
| Turbidity (NTU) | 7.1 | 6.9 | - | - | 7.0 | 7.2 | 7.05 | - | | | |
| SS (mg/L) | 9.0 | 10.0 | 7.0 | 9.25 | - | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | C2*130% IMO1 | | 01 | IMO2 | | | MPB1 | MPB2 | | MP | |
|----------------------------|--------|-------|--------|--------------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.4 | 5.4 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.6 | 5.6 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.4 | 8.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.6 | 10.6 | N | N | N | N | N | N | N | N | N | N |

 Sampling Date
 11/6/2008

 Weather & Ambient Temperature
 Sunny, 26C

| Station | | | C1 (| NM3) | | | | | | | |
|-----------------------|-------------------------------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 20:29 | | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 27.2 | 27.2 | 27.0 | 27.0 | 27.0 | 26.9 | 27.05 | - | | | |
| Salinity (ppt) | 28.9 28.7 30.4 30.5 31.3 31.2 | | | | | | 30.17 | - | | | |
| pH | 7.2 | 7.3 | 7.2 | 7.2 | 7.2 | 7.2 | 7.21 | | | | |
| D.O. Saturation (%) | 91.1 | 90.4 | 86.9 | 87.4 | 87.5 | 87.0 | 88.38 | - | | | |
| D.O. (mg/L) | 6.1 | 6.1 | 5.8 | 5.8 | 5.8 | 5.8 | 5.92 | 5.83 | | | |
| Turbidity (NTU) | 6.3 | 6.1 | 8.1 | 8.0 | 11.2 | 11.3 | 8.50 | - | | | |
| SS (mg/L) | 8.0 | 6.0 | 7.0 | 6.0 | 6.67 | - | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 19:21 | -19:22 | | | | | | | |
| Water Depth (m) | | | 7 | | | | | | | | |
| 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) | 27.1 | 27.1 | 27.0 | 27.0 | 27.1 | 27.1 | 27.07 | - | | | |
| Salinity (ppt) | 24.5 | 24.4 | 27.3 | 27.05 | - | | | | | | |
| pH | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.19 | | | | |
| D.O. Saturation (%) | 88.3 | 88.2 | 86.8 | 87.5 | 87.9 | 87.9 | 87.77 | - | | | |
| D.O. (mg/L) | 6.1 | 6.1 | 5.9 | 5.9 | 5.9 | 5.9 | 5.97 | 5.92 | | | |
| Turbidity (NTU) | 5.5 | 5.6 | 6.2 | 6.1 | 7.1 | 7.1 | 6.27 | - | | | |
| SS (mg/L) | 6.0 | 8.0 | 8.0 | 9.0 | 7.33 | - | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | |
|------------------------|---------------------------------|---------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 19:46 | -19:47 | | | Northing | Easting | |
| Water Depth (m) | | | 7 | | 22.21.134 | 113.53.453 | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 27.5 | 27.2 | 27.0 | 27.0 | 27.0 | 27.0 | 27.14 | - | |
| Salinity (ppt) | 24.2 | 23.5 | 28.7 | 28.7 | 30.1 | 29.8 | 27.51 | - | |
| pH | 7.4 | 7.3 | 7.4 | 7.4 | 7.3 | 7.3 | 7.34 | | |
| D.O. Saturation (%) | 88.2 | 87.8 | 86.0 | 85.9 | 86.0 | 86.5 | 86.73 | - | |
| D.O. (mg/L) | 6.1 | 6.1 | 5.8 | 5.8 | 5.8 | 5.8 | 5.89 | 5.79 | |
| Turbidity (NTU) | 6.2 | 6.0 | 6.8 | 6.5 | 7.7 | 7.7 | 6.82 | - | |
| SS (mg/L) | 7.0 | 11.0 | 8.0 | 6.0 | 7.50 | - | | | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | |
|-----------------------|---------------------------------|---------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 19:35 | -19:37 | | | Northing | Easting | |
| Water Depth (m) | | | 7 | | 22.21.064 | 113.54.128 | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 27.1 | 27.1 | 27.0 | 27.0 | 27.0 | 27.0 | 27.03 | - | |
| Salinity (ppt) | 25.0 | 25.4 | 28.7 | 28.8 | 30.7 | 29.8 | 28.07 | - | |
| pH | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.32 | | |
| D.O. Saturation (%) | 86.9 | 86.7 | 84.5 | 84.9 | 85.0 | 85.6 | 85.60 | - | |
| D.O. (mg/L) | 6.0 | 6.0 | 5.7 | 5.7 | 5.7 | 5.8 | 5.80 | 5.72 | |
| Turbidity (NTU) | 5.6 | 5.6 | 6.4 | 6.4 | 8.4 | 8.3 | 6.78 | - | |
| SS (mg/L) | 9.0 | 7.0 | 8.0 | 7.0 | 7.33 | - | | | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|------------------|-------|----------|-------------|----------------------|------------|-------------|-------------------------------------|--------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+C3)*130% | | IMO1 | | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedanc Exceedance of Limit Level | | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.9 | 5.9 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.6 | 9.6 | N | N | N | N | N | N | Ν | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 9.1 | 9.1 | N | N | N | N | N | N | N | N | N | N |

| Station | | | MF | PB1 | | | | | | |
|------------------------|---------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 20:05 | -20:07 | | | | | | |
| Water Depth (m) | | | 8 | .4 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | 4.2 7.4 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 27.2 | 27.3 | 27.0 | 27.0 | 27.0 | 27.0 | 27.07 | - | | |
| Salinity (ppt) | 22.2 | 22.7 | 27.4 | 27.6 | 29.4 | 29.6 | 26.49 | - | | |
| pH | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.30 | | | |
| D.O. Saturation (%) | 87.4 | 87.0 | 86.8 | 86.6 | 87.6 | 87.9 | 87.22 | - | | |
| D.O. (mg/L) | 6.1 | 6.0 | 5.9 | 5.9 | 5.9 | 5.9 | 5.96 | 5.91 | | |
| Turbidity (NTU) | 6.8 | 6.6 | 7.2 | 7.4 | 8.0 | 8.0 | 7.33 | - | | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 6.0 | 6.0 | 9.0 | 7.50 | - | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB2 | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 20:15 | -20:16 | | | | | | | |
| Water Depth (m) | | | 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) | 27.2 | 27.2 | 27.1 | 27.1 | 27.1 | 27.1 | 27.13 | - | | | |
| Salinity (ppt) | 22.7 | 22.3 | 27.9 | 28.1 | 28.9 | 28.8 | 26.44 | - | | | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.39 | | | | |
| D.O. Saturation (%) | 86.6 | 86.1 | 85.6 | 85.2 | 86.9 | 86.0 | 86.07 | - | | | |
| D.O. (mg/L) | 6.0 | 6.0 | 5.8 | 5.8 | 5.9 | 5.8 | 5.87 | 5.82 | | | |
| Turbidity (NTU) | 6.1 | 6.1 | 7.0 | 7.0 | 7.8 | 7.8 | 6.97 | - | | | |
| SS (mg/L) | 6.0 | 7.0 | 7.0 | 10.0 | 7.0 | 7.0 | 7.33 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | N | IP | | | | | | |
|------------------------|---------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 19:56 | -19:58 | | | | | | |
| 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) | 27.2 | 27.2 | - | - | 27.1 | 27.1 | 27.11 | - | | |
| Salinity (ppt) | 22.6 | 22.5 | - | - | 27.8 | 27.9 | 25.18 | - | | |
| pH | 7.1 | 7.2 | - | - | 7.2 | 7.2 | 7.16 | | | |
| D.O. Saturation (%) | 86.3 | 86.0 | - | - | 85.8 | 86.1 | 86.05 | - | | |
| D.O. (mg/L) | 6.0 | 6.0 | - | - | 5.8 | 5.8 | 5.91 | 5.82 | | |
| Turbidity (NTU) | 6.2 | 6.0 | - | - | 6.4 | 6.4 | 6.25 | - | | |
| SS (mg/L) | 9.0 | 7.0 | - | - | 9.0 | 6.0 | 7.75 | - | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Sampling Date | 11/7/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 24C |

| Station | | | | | | | | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 16:21 | -16:23 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .4 | 1 | 7.8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 27.2 | 27.7 | 26.8 | 26.8 | 26.8 | 26.8 | 27.00 | - | | | |
| Salinity (ppt) | 31.2 | 30.1 | 31.6 | 31.6 | 31.7 | 31.7 | 31.33 | - | | | |
| pH | 7.4 | 7.4 | 7.5 | 7.5 | 7.4 | 7.5 | 7.45 | | | | |
| D.O. Saturation (%) | 86.9 | 87.8 | 87.3 | 85.9 | 87.3 | 88.3 | 87.25 | - | | | |
| D.O. (mg/L) | 5.8 | 5.8 | 5.9 | 5.8 | 5.9 | 5.9 | 5.84 | 5.89 | | | |
| Turbidity (NTU) | 6.3 | 6.5 | 9.5 | 9.4 | 16.3 | 15.9 | 10.65 | - | | | |
| SS (mg/L) | 7.0 | 9.0 | 10.0 | 8.0 | 14.0 | 14.0 | 10.33 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | | Co-ord | dinates | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|-----------|------------|--|--|--|
| Time (hh:mm) | | | 15:32 | -15:33 | | | Northing | Easting | | | |
| Water Depth (m) | | | 7 | .0 | | | 22.21.354 | 113.53.185 | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .5 | 6 | .0 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 27.5 | 27.5 | 27.3 | 27.3 | 27.2 | 27.2 | 27.33 | - | | | |
| Salinity (ppt) | 21.9 | 23.9 | 25.0 | 25.8 | 28.6 | 28.1 | 25.55 | - | | | |
| рН | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.41 | | | | |
| D.O. Saturation (%) | 87.7 | 87.3 | 87.4 | 88.6 | 90.4 | 87.1 | 88.08 | - | | | |
| D.O. (mg/L) | 6.1 | 6.0 | 6.0 | 6.1 | 6.1 | 5.91 | 6.05 | 6.01 | | | |
| Turbidity (NTU) | 4.5 | 4.4 | 5.3 | 5.5 | 6.4 | 6.2 | 5.38 | - | | | |
| SS (mg/L) | 5.0 | 4.0 | 4.0 | 4.0 | 6.0 | 6.0 | 4.83 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ore | dinates | | |
|------------------------|---------------------------------|---------|---------|-----------|------------|---------|----------|---------|--|--|
| Time (hh:mm) | | | 15:22 | -15:23 | | | Northing | Easting | | |
| Water Depth (m) | | | | 22.21.012 | 113.54.120 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .0 | 7 | .0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 27.5 | 27.5 | 27.2 | 27.2 | 27.1 | 27.1 | 27.25 | - | | |
| Salinity (ppt) | 20.8 | 21.4 | 28.5 | 28.6 | 30.0 | 29.7 | 26.49 | - | | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.40 | | | |
| D.O. Saturation (%) | 89.4 | 89.3 | 88.4 | 88.6 | 88.7 | 89.9 | 89.05 | - | | |
| D.O. (mg/L) | 6.3 | 6.3 | 6.0 | 6.0 | 6.0 | 6.05 | 6.09 | 6.01 | | |
| Turbidity (NTU) | 4.4 | 4.6 | 4.6 | 4.5 | 4.9 | 4.8 | 4.63 | - | | |
| SS (mg/L) | 5.0 | 6.0 | 6.0 | 5.50 | - | | | | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Station | | | M | PB1 | | | | | | |
|------------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 15:54 | -15:56 | | | 1 | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .6 | 8 | .2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (°C) | 27.4 | 27.5 | 27.3 | 27.3 | 27.3 | 27.2 | 27.33 | - | | |
| Salinity (ppt) | 22.5 | 19.1 | 25.9 | 25.4 | 26.7 | 27.7 | 24.56 | - | | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.39 | | | |
| D.O. Saturation (%) | 86.4 | 86.2 | 89.5 | 88.7 | 88.0 | 90.2 | 88.17 | - | | |
| D.O. (mg/L) | 6.0 | 6.1 | 6.1 | 6.1 | 6.0 | 6.1 | 6.09 | 6.08 | | |
| Turbidity (NTU) | 28.5 | 28.1 | 8.7 | 8.9 | 5.1 | 5.9 | 14.20 | - | | |
| SS (mg/L) | 9.0 | 8.0 | 5.0 | 8.0 | 7.0 | 6.0 | 7.17 | - | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Station | | | MP | B2 | | |] | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|
| Time (hh:mm) | | | 15:44 | -15:45 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 27.5 | 27.5 | 27.2 | 27.2 | 27.1 | 27.1 | 27.25 | - | | | |
| Salinity (ppt) | 23.2 | 22.6 | 28.5 | 28.4 | 29.8 | 29.4 | 26.98 | - | | | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.41 | | | | |
| D.O. Saturation (%) | 88.9 | 89.5 | 89.0 | 88.3 | 88.4 | 90.9 | 89.17 | - | | | |
| D.O. (mg/L) | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.1 | 6.09 | 6.04 | | | |
| Turbidity (NTU) | 4.9 | 4.7 | 4.7 | 4.5 | 5.5 | 5.8 | 5.02 | - | | | |
| SS (mg/L) | 6.0 | 6.0 | 5.0 | 5.17 | - | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | N | IP | | | 1 | | | |
|------------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 16:03 | -16:04 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (°C) | 27.4 | 27.4 | - | - | 27.3 | 27.3 | 27.34 | - | | |
| Salinity (ppt) | 22.7 | 23.4 | - | - | 26.3 | 26.5 | 24.74 | - | | |
| pH | 7.4 | 7.4 | - | - | 7.4 | 7.4 | 7.38 | | | |
| D.O. Saturation (%) | 89.0 | 88.0 | - | - | 90.4 | 88.2 | 88.90 | - | | |
| D.O. (mg/L) | 6.2 | 6.1 | - | - | 6.2 | 6.0 | 6.13 | 6.11 | | |
| Turbidity (NTU) | 3.9 | 3.7 | - | - | 4.2 | 4.3 | 4.03 | - | | |
| SS (mg/L) | 4.0 | 4.0 | - | - | 8.0 | 5.0 | 5.25 | - | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*130% | | IMO1 | | IM | 02 | | MPB1 | MPB1 MPB2 | | | IP |
|----------------------------|--------|-------|---------|-------|----------|-------------|------------|------------|-------------|---------------------------|-----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.9 | 5.9 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 13.8 | 13.8 | 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 |

| Station | | | C1 (I | NM3) | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 21:30 | -21:32 | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 27.7 | 27.6 | 26.8 | 26.8 | 26.7 | 26.7 | 27.05 | - | | |
| Salinity (ppt) | 30.1 | 30.1 | 31.6 | 31.6 | 31.7 | 31.8 | 31.17 | - | | |
| pH | 7.4 | 7.4 | 7.5 | 7.5 | 7.5 | 7.5 | 7.46 | | | |
| D.O. Saturation (%) | 89.8 | 87.2 | 85.2 | 86.5 | 87.2 | 87.6 | 87.25 | - | | |
| D.O. (mg/L) | 6.0 | 5.8 | 5.7 | 5.8 | 5.8 | 5.9 | 5.83 | 5.86 | | |
| Turbidity (NTU) | 6.3 | 6.5 | 9.0 | 8.8 | 14.9 | 14.5 | 10.00 | - | | |
| SS (mg/L) | 7.0 | 8.0 | 10.0 | 11.0 | 16.0 | 16.0 | 11.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 20:24 | -20:26 | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 27.5 | 27.5 | 27.1 | 27.1 | 27.1 | 27.1 | 27.22 | - | | |
| Salinity (ppt) | 20.3 | 22.4 | 29.7 | 29.8 | 29.9 | 30.0 | 27.01 | - | | |
| pН | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.28 | | | |
| D.O. Saturation (%) | 89.4 | 89.1 | 88.7 | 89.8 | 88.7 | 91.2 | 89.48 | - | | |
| D.O. (mg/L) | 6.3 | 6.2 | 6.0 | 6.0 | 6.0 | 6.1 | 6.10 | 6.05 | | |
| Turbidity (NTU) | 4.5 | 4.3 | 4.5 | 4.4 | 4.6 | 4.7 | 4.50 | - | | |
| SS (mg/L) | 5.0 | 5.0 | 5.0 | 4.0 | 6.0 | 5.0 | 5.00 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 21:05 | -21:07 | | | Northing | Easting | |
| Water Depth (m) | | | 6 | | 22.21.356 | 113.53.187 | | | |
| Monitoring Depth (m) | 1 | 1.0 3.4 5.8 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 27.3 | 27.4 | 27.2 | 27.2 | 27.2 | 27.2 | 27.26 | - | |
| Salinity (ppt) | 23.9 | 23.5 | 26.0 | 26.7 | 27.4 | 27.1 | 25.76 | - | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.39 | | |
| D.O. Saturation (%) | 89.0 | 88.7 | 88.0 | 88.2 | 88.4 | 87.7 | 88.33 | - | |
| D.O. (mg/L) | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.06 | 6.00 | |
| Turbidity (NTU) | 4.0 | 4.2 | 4.2 | 4.4 | 4.6 | 4.8 | 4.37 | - | |
| SS (mg/L) | 5.0 | 5.0 | 4.0 | 6.0 | 6.0 | 7.0 | 5.50 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 21:12 | -21:15 | | | Northing | Easting | |
| Water Depth (m) | | | 7 | | 22.21.014 | 113.54.119 | | | |
| Monitoring Depth (m) | 1 | 1.0 3.8 6.6 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 27.4 | 27.4 | 27.1 | 27.1 | 27.1 | 27.0 | 27.18 | - | |
| Salinity (ppt) | 20.0 | 20.7 | 28.8 | 28.7 | 29.9 | 30.1 | 26.36 | - | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.39 | | |
| D.O. Saturation (%) | 89.0 | 89.2 | 89.2 | 88.8 | 91.1 | 91.2 | 89.75 | - | |
| D.O. (mg/L) | 6.3 | 6.3 | 6.0 | 6.0 | 6.1 | 6.1 | 6.15 | 6.13 | |
| Turbidity (NTU) | 4.2 | 4.3 | 4.6 | 4.4 | 5.5 | 5.7 | 4.78 | - | |
| SS (mg/L) | 5.0 | 5.0 | 4.0 | 6.0 | 4.0 | 6.0 | 5.00 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | MF | PB1 | | | | |
|------------------------|---------|---------|---------|---------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 20:47 | -20:49 | | | | |
| Water Depth (m) | | | 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) | 27.4 | 27.4 | 27.2 | 27.3 | 27.2 | 27.3 | 27.30 | - |
| Salinity (ppt) | 20.4 | 21.0 | 25.0 | 24.2 | 27.4 | 25.6 | 23.94 | - |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.41 | |
| D.O. Saturation (%) | 87.0 | 87.8 | 88.5 | 88.7 | 88.9 | 87.7 | 88.10 | - |
| D.O. (mg/L) | 6.1 | 6.2 | 6.1 | 6.1 | 6.1 | 6.0 | 6.10 | 6.04 |
| Turbidity (NTU) | 28.1 | 28.5 | 6.1 | 6.3 | 5.8 | 5.5 | 13.38 | - |
| SS (mg/L) | 19.0 | 15.0 | 7.0 | 7.0 | 8.0 | 6.0 | 10.33 | - |
| Remarks | | | | Dredain | a works was | observed. | | |

| Station | | | MF | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 20:37 | -20:38 | | | | | |
| Water Depth (m) | | | 8 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 27.4 | 27.4 | 27.1 | 27.1 | 27.1 | 27.1 | 27.19 | - | |
| Salinity (ppt) | 22.2 | 24.0 | 29.0 | 28.9 | 29.7 | 29.6 | 27.21 | - | |
| pH | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 7.38 | | |
| D.O. Saturation (%) | 88.8 | 88.7 | 88.3 | 88.3 | 90.5 | 89.0 | 88.93 | - | |
| D.O. (mg/L) | 6.2 | 6.1 | 6.0 | 6.0 | 6.1 | 6.0 | 6.06 | 6.04 | |
| Turbidity (NTU) | 4.5 | 4.3 | 4.8 | 4.7 | 4.9 | 5.1 | 4.72 | - | |
| SS (mg/L) | 7.0 | 4.0 | 5.0 | 4.0 | 4.0 | 4.0 | 4.67 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | Ν | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 20:55 | -20:56 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 27.3 | 27.3 | - | - | 27.2 | 27.2 | 27.25 | - | | |
| Salinity (ppt) | 22.9 | 24.2 | - | - | 27.0 | 27.3 | 25.35 | - | | |
| pH | 7.4 | 7.3 | - | - | 7.3 | 7.3 | 7.33 | | | |
| D.O. Saturation (%) | 89.4 | 90.5 | - | - | 89.6 | 90.8 | 90.08 | - | | |
| D.O. (mg/L) | 6.2 | 6.3 | - | - | 6.1 | 6.2 | 6.20 | 6.15 | | |
| Turbidity (NTU) | 4.0 | 3.9 | - | - | 4.8 | 4.6 | 4.33 | - | | |
| SS (mg/L) | 5.0 | 5.0 | - | - | 5.0 | 5.0 | 5.00 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| compliance with Action at | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | IMO2 | | MPB1 | MF | PB2 | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.0 | 6.0 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.4 | 9.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.6 | 10.6 | N | Ν | N | N | N | N | N | N | Ν | N |

| Sampling Date | 11/8/2008 |
|-------------------------------|-------------|
| Weather & Ambient Temperature | Cloudy, 23C |

| Station | | | |] | | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 20 | 0.8 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).4 | 19 | 9.8 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 27.9 | 27.8 | 27.2 | 27.3 | 27.0 | 27.0 | 27.39 | - | |
| Salinity (ppt) | 22.0 | 22.0 | 26.8 | 26.7 | 27.8 | 27.7 | 25.48 | - | |
| pH | 7.0 | 7.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.03 | | |
| D.O. Saturation (%) | 87.9 | 86.9 | 83.4 | 84.5 | 87.4 | 87.2 | 86.22 | - | |
| D.O. (mg/L) | 6.1 | 6.0 | 5.6 | 5.7 | 5.9 | 5.9 | 5.86 | 5.88 | |
| Turbidity (NTU) | 3.9 | 3.6 | 5.5 | 5.7 | 7.1 | 6.8 | 5.43 | - | |
| SS (mg/L) | 6.0 | 6.0 | 5.0 | 6.0 | 6.0 | 7.0 | 6.00 | - | |
| Remarks | | No dredging works was observed. | | | | | | | |

| Station | | | IM | | Co-ord | dinates | | |
|------------------------|---------|---------|---------|-------------|--------------|---------|-----------|------------|
| Time (hh:mm) | | | 8:21 | -8:23 | | | Northing | Easting |
| Water Depth (m) | | | 11 | 1.4 | | | 22.21.943 | 113.54.794 |
| Monitoring Depth (m) | 1 | .0 | 5 | .7 | 10 |).4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 28.1 | 28.1 | 26.8 | 26.8 | 26.7 | 26.7 | 27.20 | - |
| Salinity (ppt) | 27.7 | 27.6 | 28.6 | 28.6 | 29.0 | 29.1 | 28.43 | - |
| pН | 7.0 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 | 7.10 | |
| D.O. Saturation (%) | 87.2 | 86.5 | 81.2 | 79.8 | 82.6 | 83.0 | 83.38 | - |
| D.O. (mg/L) | 5.8 | 5.8 | 5.3 | 5.4 | 5.6 | 5.58 | 5.57 | 5.57 |
| Turbidity (NTU) | 5.7 | 5.4 | 6.7 | 6.6 | 8.3 | 7.9 | 6.77 | - |
| SS (mg/L) | 5.0 | 6.0 | 6.0 | 7.0 | 6.0 | 6.0 | 6.00 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | - |

| Station | | | IM | 02 | | | Co-ore | dinates |
|------------------------|---------|---------|---------|-------------|--------------|---------|-----------|------------|
| Time (hh:mm) | | | 8;08 | -8:10 | | | Northing | Easting |
| Water Depth (m) | | | 11 | 1.0 | | | 22.21.434 | 113.55.600 |
| Monitoring Depth (m) | 1 | .0 | 5 | .5 | 10 | 0.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 27.5 | 27.6 | 26.8 | 26.7 | 26.6 | 26.6 | 26.96 | - |
| Salinity (ppt) | 28.2 | 28.2 | 29.0 | 29.0 | 29.2 | 29.2 | 28.80 | - |
| pH | 7.1 | 7.1 | 7.1 | 7.0 | 7.0 | 7.0 | 7.04 | |
| D.O. Saturation (%) | 87.7 | 88.5 | 85.3 | 86.3 | 87.4 | 85.8 | 86.83 | - |
| D.O. (mg/L) | 5.9 | 5.9 | 5.7 | 5.8 | 5.9 | 5.86 | 5.84 | 5.88 |
| Turbidity (NTU) | 4.7 | 4.8 | 5.5 | 5.7 | 6.3 | 6.5 | 5.58 | - |
| SS (mg/L) | 10.0 | 8.0 | 6.0 | 7.50 | - | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | MF | PB1 | | | | | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|--|
| Time (hh:mm) | | | | | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | | |
| Water Temperature (℃) | 28.1 | 28.1 | 27.8 | 27.7 | 27.5 | 27.5 | 27.77 | - | | | | |
| Salinity (ppt) | 21.9 | 21.8 | 24.0 | 24.0 | 25.6 | 25.6 | 23.79 | - | | | | |
| pН | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.01 | | | | | |
| D.O. Saturation (%) | 89.6 | 88.3 | 88.5 | 87.8 | 91.8 | 90.7 | 89.45 | - | | | | |
| D.O. (mg/L) | 6.2 | 6.1 | 6.0 | 6.0 | 6.2 | 6.2 | 6.11 | 6.19 | | | | |
| Turbidity (NTU) | 5.1 | 4.8 | 5.8 | 5.9 | 6.3 | 6.5 | 5.73 | - | | | | |
| SS (mg/L) | 6.0 | 9.0 | 8.0 | 6.0 | 7.0 | 5.0 | 6.83 | - | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | | |

| Station | | | MF | PB2 | | | 1 | |
|------------------------|---------|---------|---------|-------------|--------------|---------|----------|--------|
| Time (hh:mm) | | | 9:15 | -9:17 | | | | |
| 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- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 28.1 | 28.1 | 27.8 | 27.8 | 27.7 | 27.7 | 27.84 | - |
| Salinity (ppt) | 22.1 | 22.1 | 24.2 | 24.2 | 24.6 | 24.5 | 23.63 | - |
| pH | 7.0 | 7.0 | 7.0 | 7.1 | 7.1 | 7.0 | 7.03 | |
| D.O. Saturation (%) | 89.6 | 89.4 | 90.2 | 90.6 | 92.4 | 91.3 | 90.58 | - |
| D.O. (mg/L) | 6.1 | 6.1 | 6.2 | 6.2 | 6.3 | 6.2 | 6.18 | 6.26 |
| Turbidity (NTU) | 4.0 | 4.1 | 4.5 | 4.4 | 4.9 | 5.2 | 4.52 | - |
| SS (mg/L) | 6.0 | 5.0 | 5.33 | - | | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | N | IP | | | 1 | |
|------------------------|---------|---------|---------|-------------|--------------|---------|--------------------|--------|
| Time (hh:mm) | | | 8:55 | -8:58 | | | | |
| 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) | 28.0 | 28.1 | - | - | 27.7 | 27.7 | 27.86 | - |
| Salinity (ppt) | 23.3 | 23.1 | - | - | 24.2 | 24.2 | 23.71 | - |
| pH | 7.0 | 7.0 | - | - | 7.0 | 7.1 | 7.03 | |
| D.O. Saturation (%) | 95.6 | 96.6 | - | - | 98.6 | 98.1 | 97.23 | - |
| D.O. (mg/L) | 6.6 | 6.6 | - | - | 6.7 | 6.7 | 6.64 | 6.68 |
| Turbidity (NTU) | 4.1 | 4.3 | - | - | 4.9 | 4.8 | 4.53 | - |
| SS (mg/L) | 6.0 | 6.0 | - | - | 5.0 | 6.0 | 5.75 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Parameter | Ao in | EM&A | C0*1 | 30% | 184 | 01 | 184 | 00 | | MPB1 | ME | 000 | N | ID |
|----------------------------|--------|-------|--------|-------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | - | | 621 | 30% | IIV | | | IMO2 | | | MPB2 | | IVIP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.9 | 5.9 | N | N | N | N | N | N | N | N | Ν | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.9 | 5.9 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.1 | 7.1 | N | N | N | N | N | N | N | N | Ν | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 7.8 | 7.8 | N | N | N | N | N | N | N | N | N | N |

| Station | | | C1 (I | NM3) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 15:57 | | | | | |
| Water Depth (m) | | | 16 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .3 | 15 | 5.6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.2 | 27.3 | 26.5 | 26.5 | 26.4 | 26.4 | 26.71 | - |
| Salinity (ppt) | 28.6 | 28.6 | 29.5 | 29.5 | 29.7 | 29.6 | 29.24 | - |
| pH | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.87 | |
| D.O. Saturation (%) | 88.7 | 88.3 | 82.9 | 84.6 | 90.1 | 89.3 | 87.32 | - |
| D.O. (mg/L) | 5.9 | 5.9 | 5.6 | 5.7 | 6.1 | 6.0 | 5.86 | 6.05 |
| Turbidity (NTU) | 5.4 | 5.3 | 5.8 | 5.6 | 6.2 | 6.4 | 5.78 | - |
| SS (mg/L) | 9.0 | 10.0 | 5.0 | 7.0 | 7.33 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (I | NM6) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 14:28 | | | | | |
| Water Depth (m) | | | 6 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .3 | 5 | .6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.8 | 27.8 | 27.3 | 27.3 | 27.2 | 27.2 | 27.42 | - |
| Salinity (ppt) | 24.9 | 24.9 | 26.3 | 26.3 | 26.6 | 26.6 | 25.94 | - |
| pН | 7.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.06 | |
| D.O. Saturation (%) | 88.3 | 87.3 | 86.8 | 86.9 | 89.7 | 89.1 | 88.02 | - |
| D.O. (mg/L) | 6.0 | 5.9 | 5.9 | 5.9 | 6.1 | 6.0 | 5.96 | 6.05 |
| Turbidity (NTU) | 3.0 | 3.2 | 3.8 | 3.7 | 4.4 | 4.2 | 3.72 | - |
| SS (mg/L) | 6.0 | 8.0 | 8.0 | 9.0 | 7.50 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 01 | | | Co-ordinate | S |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|---------|
| Time (hh:mm) | | | 15:31 | -15:32 | | | Northing | Easting |
| Water Depth (m) | | | 11 | | 22.21.952 | 113.54.799 | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .8 | 10 |).6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.6 | 27.5 | 27.1 | 27.1 | 26.5 | 26.6 | 27.07 | - |
| Salinity (ppt) | 27.3 | 27.2 | 28.6 | 28.6 | 29.1 | 29.1 | 28.34 | - |
| pH | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.09 | |
| D.O. Saturation (%) | 85.4 | 83.9 | 77.9 | 78.4 | 83.0 | 82.6 | 81.87 | - |
| D.O. (mg/L) | 5.7 | 5.6 | 5.2 | 5.2 | 5.6 | 5.6 | 5.47 | 5.57 |
| Turbidity (NTU) | 5.5 | 5.2 | 6.0 | 6.2 | 6.8 | 6.9 | 6.10 | - |
| SS (mg/L) | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.33 | - | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 02 | | | Co-ordinate | S |
|-----------------------|---------|---------|---------|---------|-------------|--------------|----------------|---------|
| Time (hh:mm) | | | 15:42 | -15:44 | | | Northing | Easting |
| Water Depth (m) | | | 10 | | 22.21.427 | 113.55.602 | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .4 | 9 | .8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 27.4 | 27.4 | 26.7 | 26.6 | 26.5 | 26.4 | 26.82 | - |
| Salinity (ppt) | 26.9 | 27.0 | 28.6 | 28.6 | 29.1 | 29.2 | 28.21 | - |
| pH | 7.1 | 7.0 | 7.1 | 7.0 | 7.0 | 7.1 | 7.04 | |
| D.O. Saturation (%) | 84.0 | 85.1 | 82.4 | 82.5 | 83.6 | 84.5 | 83.68 | - |
| D.O. (mg/L) | 5.7 | 5.7 | 5.6 | 5.6 | 5.6 | 5.7 | 5.63 | 5.66 |
| Turbidity (NTU) | 5.6 | 5.9 | 6.7 | 6.9 | 7.8 | 7.7 | 6.77 | - |
| SS (mg/L) | 4.0 | 9.0 | 9.0 | 7.0 | 6.0 | 6.67 | - | |
| Remarks | | | | Dredg | ing works w | as observed. | | |

| Station | | | MF | PB1 | | | | |
|------------------------|---------|---------|---------|----------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 14:58 | | | | | |
| Water Depth (m) | | | 8 | .6 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 28.0 | 27.9 | 27.6 | 27.6 | 27.4 | 27.4 | 27.64 | - |
| Salinity (ppt) | 22.0 | 22.1 | 24.1 | 24.0 | 25.4 | 25.3 | 23.79 | - |
| pН | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.1 | 7.02 | |
| D.O. Saturation (%) | 88.9 | 88.5 | 88.0 | 87.7 | 90.9 | 89.8 | 88.97 | - |
| D.O. (mg/L) | 6.1 | 6.1 | 6.0 | 6.0 | 6.2 | 6.1 | 6.07 | 6.14 |
| Turbidity (NTU) | 5.6 | 5.4 | 6.4 | 6.2 | 6.7 | 6.9 | 6.20 | - |
| SS (mg/L) | 7.0 | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | 5.83 | - |
| Remarks | | | | Dredging | g works was | observed. | | |

| Station | | | MF | PB2 | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 14:46 | | | | | | |
| Water Depth (m) | | | 9 | | | | | | |
| 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) | 27.9 | 27.9 | 27.8 | 27.8 | 27.8 | 27.8 | 27.80 | - | |
| Salinity (ppt) | 22.4 | 22.3 | 22.9 | 22.9 | 23.0 | 22.9 | 22.74 | - | |
| pН | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.02 | | |
| D.O. Saturation (%) | 90.4 | 90.0 | 91.1 | 91.0 | 91.6 | 91.3 | 90.90 | - | |
| D.O. (mg/L) | 6.2 | 6.2 | 6.2 | 6.2 | 6.3 | 6.2 | 6.22 | 6.25 | |
| Turbidity (NTU) | 4.8 | 4.7 | 5.2 | 5.4 | 6.3 | 6.5 | 5.48 | - | |
| SS (mg/L) | 5.0 | 6.0 | 8.0 | 8.0 | 6.0 | 7.0 | 6.67 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | Ν | IP | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 15:08 | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| 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) | 27.8 | 27.8 | - | - | 27.5 | 27.5 | 27.66 | - | | |
| Salinity (ppt) | 23.5 | 23.6 | - | - | 24.8 | 24.9 | 24.21 | - | | |
| pH | 7.0 | 7.0 | - | - | 7.1 | 7.1 | 7.04 | | | |
| D.O. Saturation (%) | 98.1 | 99.1 | - | - | 99.7 | 99.4 | 99.08 | - | | |
| D.O. (mg/L) | 6.7 | 6.7 | - | - | 6.8 | 6.7 | 6.74 | 6.77 | | |
| Turbidity (NTU) | 3.5 | 3.2 | - | - | 4.6 | 4.4 | 3.93 | - | | |
| SS (mg/L) | 6.0 | 5.0 | - | - | 7.0 | 5.0 | 5.75 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| compliance with Action at | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MF | PB2 | M | iP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.0 | 6.0 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.2 | 6.2 | N | N | N | N | Ν | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 9.6 | 9.6 | N | Ν | N | N | N | N | N | Ν | Ν | N |

| Sampling Date | | | 11/9/2008 | | 1 | | | |
|-------------------------|---------|---------|-----------|--------------|--------------|---------|--------------------|------------|
| Weather & Ambient Tempe | erature | | Fine, 21C | | | | | |
| Station | 1 | | C2 (| NM5) | | | h | |
| Time (hh:mm) | | | | -15:19 | | | 1 | |
| Water Depth (m) | | | | 9.2 | | | 1 | |
| Monitoring Depth (m) | 1 | .0 | | .6 | 18 | 3.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.8 | 24.6 | 23.8 | 24.0 | 23.0 | 23.1 | 23.87 | - |
| Salinity (ppt) | 25.4 | 26.2 | 30.9 | 31.1 | 33.5 | 33.7 | 30.13 | - |
| рН | 7.3 | 7.3 | 7.5 | 7.4 | 7.4 | 7.4 | 7.38 | |
| D.O. Saturation (%) | 89.3 | 89.7 | 86.3 | 86.2 | 85.7 | 85.9 | 87.18 | - |
| D.O. (mg/L) | 6.3 | 6.3 | 6.0 | 6.0 | 6.0 | 6.0 | 6.07 | 5.96 |
| Turbidity (NTU) | 4.1 | 4.2 | 4.3 | 4.5 | 4.6 | 4.8 | 4.42 | - |
| SS (mg/L) | 5.0 | 5.0 | 6.0 | 5.0 | 6.0 | 6.0 | 5.50 | - |
| Remarks | | | D | redging worl | ks was obsei | rved. | | |
| Station | | | IM | 01 | | | Co-or | dinates |
| Time (hh:mm) | | | | -15:44 | | | Northing | Easting |
| Water Depth (m) | | | | .6 | | | 22.21.360 | 113.53.179 |
| Monitoring Depth (m) | 1 | .0 | | .3 | 5 | .6 | 22.21.000 | 110.00.170 |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.7 | 24.8 | 24.3 | 24.3 | 23.8 | 24.0 | 24.30 | - |
| Salinity (ppt) | 25.8 | 26.2 | 27.2 | 27.1 | 30.0 | 30.0 | 27.71 | - |
| рН | 7.2 | 7.3 | 7.3 | 7.3 | 7.4 | 7.3 | 7.28 | |
| D.O. Saturation (%) | 89.9 | 88.4 | 89.5 | 86.8 | 86.3 | 89.2 | 88.35 | - |
| D.O. (mg/L) | 6.3 | 6.2 | 6.3 | 6.1 | 6.0 | 6.22 | 6.18 | 6.12 |
| Turbidity (NTU) | 3.5 | 3.8 | 4.1 | 4.3 | 4.6 | 4.4 | 4.12 | - |
| SS (mg/L) | 6.0 | 6.0 | 6.0 | 5.0 | 6.0 | 6.0 | 5.83 | - |
| Remarks | | | D | redging worl | ks was obsei | rved. | | |
| Station | | | IM | 02 | | | Co-or | dinates |
| Time (hh:mm) | - | | | -16:18 | | | Northing | Easting |
| Water Depth (m) | | | | .2 | | | 22.21.011 | 113.54.124 |
| Monitoring Depth (m) | 1 | .0 | - | .1 | 7 | .2 | EE.ET.OTT | 110.04.124 |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (℃) | 25.2 | 25.2 | 24.3 | 24.3 | 23.6 | 23.5 | 24.35 | - |
| Salinity (ppt) | 22.6 | 22.7 | 27.6 | 27.5 | 31.2 | 31.2 | 27.13 | - |
| рН | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.4 | 7.26 | |
| D.O. Saturation (%) | 89.6 | 90.3 | 88.0 | 87.3 | 87.7 | 88.2 | 88.52 | - |
| D.O. (mg/L) | 6.3 | 6.4 | 6.2 | 6.1 | 6.1 | 6.14 | 6.20 | 6.12 |
| Turbidity (NTU) | 4.4 | 4.7 | 4.8 | 4.5 | 5.5 | 5.3 | 4.87 | - |
| SS (mg/L) | 6.0 | 6.0 | 6.0 | 6.0 | 5.0 | 5.0 | 5.67 | - |
| Remarks | | | D | redging worl | ks was obser | rved. | | |

| Station | | | MF | | | | | |
|---|---------|---------|---------|-------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | 15:51 | -15:54 | | | | |
| Water Depth (m) | | | | .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 (℃) | 24.8 | 24.8 | 24.2 | 24.0 | 24.0 | 23.8 | 24.27 | - |
| Salinity (ppt) | 25.5 | 25.2 | 29.2 | 29.2 | 30.3 | 30.3 | 28.30 | - |
| ρH | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.27 | |
| D.O. Saturation (%) | 89.4 | 89.1 | 86.2 | 86.1 | 87.2 | 87.2 | 87.53 | - |
| D.O. (mg/L) | 6.3 | 6.3 | 6.0 | 6.0 | 6.1 | 6.1 | 6.11 | 6.07 |
| Furbidity (NTU) | 4.3 | 4.2 | 4.8 | 4.6 | 4.9 | 4.8 | 4.60 | - |
| SS (mg/L) | 6.0 | 6.0 | 6.0 | 5.0 | 6.0 | 8.0 | 6.17 | - |
| Remarks | | | D | redging wor | | | | |
| Station | | | MF | PB2 | | | 1 | |
| Time (hh:mm) | | | 16:00 | -16:02 | | | | |
| Water Depth (m) | | | 8 | .8 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .4 | 7 | .8 | | |
| Trial Control of the second | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.9 | 24.8 | 24.5 | 24.6 | 23.7 | 23.9 | 24.38 | - |
| Salinity (ppt) | 23.6 | 23.8 | 26.2 | 26.8 | 30.6 | 30.6 | 26.92 | - |
| oH | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.23 | |
| D.O. Saturation (%) | 90.8 | 90.1 | 89.1 | 88.4 | 89.7 | 88.1 | 89.37 | - |
| D.O. (mg/L) | 6.4 | 6.4 | 6.3 | 6.2 | 6.2 | 6.1 | 6.26 | 6.19 |
| Turbidity (NTU) | 4.6 | 4.4 | 4.8 | 5.1 | 5.1 | 5.3 | 4.88 | - |
| SS (mg/L) | 6.0 | 4.0 | 6.0 | 8.0 | 6.0 | 6.0 | 6.00 | - |
| Remarks | | | D | redging wor | ks was obse | rved. | | |
| Station | 1 | | N | IP | | | 1 | |
| Time (hh:mm) | 1 | | 15:33 | -15:35 | | | | |
| Water Depth (m) | 1 | | 5 | .3 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .7 | 4 | .3 | 1 | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.6 | 24.6 | - | - | 24.1 | 24.0 | 24.32 | - |
| Salinity (ppt) | 25.2 | 24.9 | - | - | 29.0 | 29.2 | 27.03 | - |
| oH | 7.3 | 7.3 | - | - | 7.4 | 7.4 | 7.36 | |
| | | 01.5 | | | 1 <u></u> | 00.0 | 00.70 | |

| Remarks | | | D | redging worl | ks was obser | rved. | | |
|------------------------|------|------|---|--------------|--------------|-------|-------|------|
| SS (mg/L) | 6.0 | 5.0 | - | - | 6.0 | 5.0 | 5.50 | - |
| Turbidity (NTU) | 4.1 | 3.9 | - | - | 4.2 | 4.4 | 4.15 | - |
| D.O. (mg/L) | 6.4 | 6.4 | - | - | 6.4 | 6.2 | 6.36 | 6.32 |
| D.O. Saturation (%) | 90.3 | 91.5 | - | - | 92.1 | 89.2 | 90.78 | - |
| pH | 7.3 | 7.3 | - | - | 7.4 | 7.4 | 7.36 | |
| Salinity (ppt) | 25.2 | 24.9 | - | - | 29.0 | 29.2 | 27.03 | - |
| Water Temperature (°C) | 24.6 | 24.6 | - | - | 24.1 | 24.0 | 24.32 | - |

| Parameter | As in | EM&A | C2*1 | 30% | IM | 01 | IM | 02 | | MPB1 | MF | PB2 | N | IP |
|----------------------------|-----------------|----------------|-----------------|----------------|----|----|----------------------------------|----|-----------------------------------|---------------------------|----|----------------------------------|---|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action Level | | Exceedanc e of Action Level | Exceedance of Limit Level | | Exceedan ce of Limit Level | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 6.0 | 6.0 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 5.7 | NA | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 7.2 | 7.2 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | | | 11/9/2008 | | | | | |
|-------------------------|---------|---------|-----------|---------|-------------|--------------|----------------|--------|
| Weather & Ambient Tempe | erature | | Fine, 20C | | | | | |
| Station | 1 | | C1 (| NM3) | | | | |
| Time (hh:mm) | | | 9:09 | -9:12 | | | | |
| Water Depth (m) | | | 15 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 7 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.5 | 24.1 | 22.9 | 22.7 | 22.2 | 22.3 | 23.12 | - |
| Salinity (ppt) | 28.8 | 29.4 | 33.2 | 33.7 | 35.9 | 35.6 | 32.77 | - |
| pH | 7.3 | 7.4 | 7.4 | 7.5 | 7.5 | 7.4 | 7.42 | |
| D.O. Saturation (%) | 95.1 | 92.5 | 87.8 | 83.9 | 87.5 | 92.5 | 89.88 | - |
| D.O. (mg/L) | 6.6 | 6.4 | 6.1 | 5.8 | 6.1 | 6.4 | 6.25 | 6.25 |
| Turbidity (NTU) | 4.1 | 4.3 | 4.5 | 4.3 | 4.8 | 4.6 | 4.43 | - |
| SS (mg/L) | 5.0 | 4.0 | 6.0 | 5.0 | 4.0 | 5.0 | 4.83 | - |
| Remarks | | | | Dredg | ing works w | as observed. | | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 9:38 | -9:37 | | | | |
| Water Depth (m) | | | 6 | 6.6 | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .3 | 5 | .6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.6 | 24.9 | 24.3 | 24.2 | 23.4 | 23.7 | 24.17 | - |
| Salinity (ppt) | 24.6 | 24.3 | 27.2 | 27.5 | 31.8 | 31.8 | 27.88 | - |
| рН | 7.2 | 7.2 | 7.2 | 7.2 | 7.1 | 7.2 | 7.18 | |
| D.O. Saturation (%) | 93.1 | 94.1 | 93.1 | 90.3 | 92.8 | 91.0 | 92.40 | - |
| D.O. (mg/L) | 6.5 | 6.6 | 6.5 | 6.3 | 6.4 | 6.3 | 6.46 | 6.39 |
| Turbidity (NTU) | 4.2 | 4.3 | 4.1 | 4.2 | 4.2 | 4.3 | 4.22 | - |
| SS (mg/L) | 6.0 | 5.0 | 5.0 | 6.0 | 4.0 | 6.0 | 5.33 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 01 | | | Co-ordinate | S |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|------------|
| Time (hh:mm) | | | 10:16 | -10:18 | | | Northing | Easting |
| Water Depth (m) | | | 7 | .0 | | | 22.21.358 | 113.53.183 |
| 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) | 24.8 | 24.5 | 24.2 | 24.1 | 23.7 | 23.8 | 24.18 | - |
| Salinity (ppt) | 25.8 | 26.3 | 27.8 | 27.7 | 30.2 | 30.2 | 28.01 | - |
| pH | 7.3 | 7.3 | 7.3 | 7.4 | 7.4 | 7.4 | 7.33 | |
| D.O. Saturation (%) | 88.4 | 88.2 | 88.0 | 86.3 | 86.2 | 88.0 | 87.52 | - |
| D.O. (mg/L) | 6.2 | 6.2 | 6.2 | 6.1 | 6.0 | 6.1 | 6.12 | 6.08 |
| Turbidity (NTU) | 4.3 | 4.1 | 4.5 | 4.7 | 4.9 | 4.8 | 4.55 | - |
| SS (mg/L) | 4.0 | 5.0 | 7.0 | 5.0 | 6.0 | 6.0 | 5.50 | - |
| Remarks | | | | Dredg | ging works w | as observed. | | |

| Station | | | IM | 02 | | | Co-ordinate | s |
|-----------------------|---------|---------|---------|---------|--------------|--------------|----------------|------------|
| Time (hh:mm) | | | 9:49 | -9:52 | | | Northing | Easting |
| Water Depth (m) | | | 8 | .4 | | | 22.21.014 | 113.54.122 |
| 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 (℃) | 25.0 | 24.8 | 24.0 | 24.3 | 24.0 | 23.4 | 24.27 | - |
| Salinity (ppt) | 22.5 | 22.4 | 29.2 | 27.6 | 30.2 | 31.4 | 27.22 | - |
| pH | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.27 | |
| D.O. Saturation (%) | 89.5 | 88.7 | 86.4 | 86.7 | 89.5 | 86.7 | 87.92 | - |
| D.O. (mg/L) | 6.3 | 6.2 | 6.0 | 6.1 | 6.2 | 6.0 | 6.15 | 6.14 |
| Turbidity (NTU) | 3.9 | 3.7 | 4.3 | 4.5 | 4.9 | 4.8 | 4.35 | - |
| SS (mg/L) | 5.0 | 6.0 | 4.0 | 4.0 | 6.0 | 4.0 | 4.83 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | M | PB1 | | | | |
|------------------------|---------|---------|---------|----------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 10:07 | -10:10 | | | | |
| 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) | 25.2 | 24.9 | 24.0 | 24.2 | 23.8 | 23.8 | 24.30 | - |
| Salinity (ppt) | 23.7 | 25.0 | 29.3 | 29.4 | 30.4 | 30.4 | 28.03 | - |
| pН | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 7.28 | |
| D.O. Saturation (%) | 90.9 | 90.0 | 86.2 | 87.8 | 89.6 | 86.5 | 88.50 | - |
| D.O. (mg/L) | 6.4 | 6.3 | 6.0 | 6.1 | 6.2 | 6.0 | 6.18 | 6.13 |
| Turbidity (NTU) | 4.1 | 4.2 | 4.3 | 4.5 | 4.7 | 4.8 | 4.43 | - |
| SS (mg/L) | 6.0 | 6.0 | 10.0 | 7.0 | 6.0 | 5.0 | 6.67 | - |
| Remarks | | | | Dredging | g works was | observed. | | |

| Station | | | MF | | | | | |
|------------------------|---------|---------|---------|-----------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 10:00 | -10:03 | | | | |
| Water Depth (m) | | | 8 | .6 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.9 | 24.9 | 24.6 | 24.4 | 23.5 | 23.6 | 24.30 | - |
| Salinity (ppt) | 23.7 | 23.6 | 26.7 | 26.7 | 31.1 | 30.8 | 27.11 | - |
| pH | 7.2 | 7.1 | 7.3 | 7.3 | 7.3 | 7.3 | 7.23 | |
| D.O. Saturation (%) | 91.4 | 90.7 | 90.5 | 88.3 | 87.5 | 87.5 | 89.32 | - |
| D.O. (mg/L) | 6.5 | 6.4 | 6.3 | 6.2 | 6.1 | 6.1 | 6.26 | 6.09 |
| Turbidity (NTU) | 4.6 | 4.3 | 4.8 | 4.6 | 5.1 | 5.3 | 4.78 | - |
| SS (mg/L) | 6.0 | 5.0 | 6.0 | 6.0 | 6.0 | 5.0 | 5.67 | - |
| Remarks | | | | observed. | | | | |

| Station | | | Ν | | | | | |
|------------------------|---------|---------|---------|-----------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 10:25 | -10:26 | | | | |
| 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) | 24.8 | 24.6 | - | - | 24.0 | 24.3 | 24.43 | - |
| Salinity (ppt) | 25.2 | 24.9 | - | - | 29.1 | 29.0 | 27.03 | - |
| pH | 7.3 | 7.3 | - | - | 7.4 | 7.4 | 7.35 | |
| D.O. Saturation (%) | 91.8 | 91.0 | - | - | 93.4 | 91.0 | 91.80 | - |
| D.O. (mg/L) | 6.5 | 6.4 | - | - | 6.5 | 6.4 | 6.43 | 6.43 |
| Turbidity (NTU) | 4.2 | 4.3 | - | - | 4.7 | 4.5 | 4.43 | - |
| SS (mg/L) | 8.0 | 5.0 | - | - | 5.0 | 4.0 | 5.50 | - |
| Remarks | | | | observed. | | | | |

| Compliance with Action an | Sompliance with Action and Emitt Level | | | | | | | | | | | | | |
|----------------------------|--|-------|----------|-----------|----------|-------------|----------------------|------------------------------------|-------------|-------------------------------------|--------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IMO1 | | IMO2 | | MPB1 | | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance of Action Exceedance Ex | | Exceedanc Exceedance of Limit Level | | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.3 | 6.3 | 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 | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 5.6 | NA | N | N | N | N | N | N | Ν | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/10/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 22C |

| Station | | | C2 (| NM5) | | |] | | | |
|-----------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 16:19 | -16:21 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.1 | 19 | 9.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 24.0 | 24.1 | 23.4 | 23.5 | 23.1 | 23.3 | 23.59 | - | | |
| Salinity (ppt) | 29.7 | 29.6 | 30.5 | 30.4 | 31.2 | 31.0 | 30.38 | - | | |
| pH | 7.6 | 7.6 | 7.7 | 7.7 | 7.7 | 7.7 | 7.66 | | | |
| D.O. Saturation (%) | 90.7 | 91.1 | 89.7 | 90.1 | 89.4 | 87.2 | 89.70 | - | | |
| D.O. (mg/L) | 8.2 | 8.1 | 8.1 | 8.0 | 8.1 | 7.9 | 8.05 | 7.98 | | |
| Turbidity (NTU) | 7.7 | 7.7 | 7.0 | 7.2 | 7.2 | 7.3 | 7.35 | - | | |
| SS (mg/L) | 11.0 | 10.0 | 11.0 | 10.67 | - | | | | | |
| Remarks | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | dinates | | |
|------------------------|---------|---------------------------------|-----------|------------|---------|---------|----------|---------|--|--|
| Time (hh:mm) | | | 16:31 | -16:33 | | | Northing | Easting | | |
| Water Depth (m) | | | 22.22.028 | 113.54.891 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 24.5 | 24.1 | 23.6 | 23.6 | 23.4 | 23.4 | 23.74 | - | | |
| Salinity (ppt) | 29.3 | 29.7 | 30.5 | 30.6 | 31.0 | 31.0 | 30.35 | - | | |
| pH | 7.7 | 7.6 | 7.6 | 7.7 | 7.7 | 7.6 | 7.65 | | | |
| D.O. Saturation (%) | 100.5 | 102.3 | 102.7 | 100.7 | 100.9 | 103.8 | 101.82 | - | | |
| D.O. (mg/L) | 8.0 | 8.2 | 8.3 | 8.1 | 8.1 | 8.37 | 8.18 | 8.25 | | |
| Turbidity (NTU) | 6.6 | 6.2 | 6.8 | 7.0 | 6.7 | 6.9 | 6.70 | - | | |
| SS (mg/L) | 11.0 | 10.0 | 11.0 | 10.0 | 10.0 | 11.0 | 10.50 | - | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ore | dinates | |
|------------------------|---------------------------------|---------|-----------|------------|---------|---------|----------|---------|--|
| Time (hh:mm) | | | 16:41 | -16:43 | | | Northing | Easting | |
| Water Depth (m) | | | 22.21.449 | 113.55.542 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .4 | 11 | 7.7 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | |
| | | | | | | | averaged | | |
| Water Temperature (°C) | 24.1 | 24.0 | 23.6 | 23.7 | 23.3 | 23.3 | 23.67 | - | |
| Salinity (ppt) | 29.9 | 30.0 | 30.5 | 30.5 | 31.1 | 31.2 | 30.56 | - | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.67 | | |
| D.O. Saturation (%) | 97.0 | 98.6 | 95.9 | 97.4 | 96.9 | 98.1 | 97.32 | - | |
| D.O. (mg/L) | 7.8 | 7.9 | 7.7 | 7.8 | 7.8 | 7.92 | 7.83 | 7.87 | |
| Turbidity (NTU) | 7.4 | 7.8 | 6.7 | 7.3 | 7.1 | 7.7 | 7.33 | - | |
| SS (mg/L) | 11.0 | 10.0 | 14.0 | 10.0 | 10.0 | 10.0 | 10.83 | - | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Station | | | MF | PB1 | | | | | |
|-----------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | 16:01 | -16:02 | | | | | |
| Water Depth (m) | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 24.5 | 24.6 | 24.0 | 24.1 | 23.5 | 23.4 | 24.02 | - | |
| Salinity (ppt) | 29.3 | 29.1 | 30.0 | 30.0 | 31.3 | 31.4 | 30.18 | - | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 | 7.7 | 7.63 | | |
| D.O. Saturation (%) | 79.5 | 88.6 | 98.1 | 84.3 | 91.7 | 91.4 | 88.93 | - | |
| D.O. (mg/L) | 7.2 | 8.0 | 8.8 | 7.7 | 8.3 | 8.2 | 8.03 | 8.24 | |
| Turbidity (NTU) | 7.8 | 7.5 | 8.6 | 8.4 | 7.7 | 8.0 | 8.00 | - | |
| SS (mg/L) | 13.0 | 11.0 | 14.0 | 11.0 | 13.0 | 13.0 | 12.50 | - | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Station | | | MP | B2 | | | 1 | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|
| Time (hh:mm) | | | 15:52 | -15:53 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .6 | 8 | .1 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 24.6 | 24.6 | 23.9 | 23.8 | 23.7 | 23.7 | 24.07 | - | | | |
| Salinity (ppt) | 29.4 | 29.4 | 30.3 | 30.3 | 30.8 | 30.7 | 30.13 | - | | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.60 | | | | |
| D.O. Saturation (%) | 79.9 | 82.4 | 95.0 | 91.7 | 90.1 | 92.0 | 88.52 | - | | | |
| D.O. (mg/L) | 7.4 | 7.6 | 8.6 | 8.3 | 8.2 | 8.3 | 8.05 | 8.25 | | | |
| Turbidity (NTU) | 6.5 | 6.5 | 8.4 | 8.3 | 8.1 | 8.8 | 7.77 | - | | | |
| SS (mg/L) | 12.0 | 12.0 | 11.50 | - | | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | Μ | IP | | | 1 | | | | | |
|------------------------|---------|---------|---------------------------------|---------|---------|---------|--------------------|--------|--|--|--|--|
| Time (hh:mm) | | | 16:10 | -16:11 | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | | |
| Water Temperature (°C) | 24.1 | 24.9 | - | - | 23.4 | 23.4 | 23.95 | - | | | | |
| Salinity (ppt) | 29.7 | 29.1 | - | - | 30.6 | 30.7 | 30.01 | - | | | | |
| рН | 7.6 | 7.6 | - | - | 7.7 | 7.7 | 7.64 | | | | | |
| D.O. Saturation (%) | 97.3 | 96.5 | - | - | 84.6 | 88.3 | 91.68 | - | | | | |
| D.O. (mg/L) | 8.7 | 8.7 | - | - | 7.7 | 8.0 | 8.28 | 7.85 | | | | |
| Turbidity (NTU) | 7.4 | 7.3 | - | - | 7.6 | 7.8 | 7.53 | - | | | | |
| SS (mg/L) | 10.0 | 10.0 | 10.25 | - | | | | | | | | |
| Remarks | | | No dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | 30% | IM | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|---|-------|--------------------------|-------|------|-------------------------|-------|-------------------------|-------|
| | Action Level | Limit Level | Action Level | Limit Level | | ceedan Exceedan Exceedance Exceedance E ce of ce of Limit of Action of Limit e | | Exceedanc e of Action | | | Exceedan ce of Limit | | Exceedan ce of Limit | |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 8.0 | 8.0 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 8.1 | 8.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.6 | NA | N | N | N | N | N | N | N | N | Ν | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 13.9 | 13.9 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/10/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 21C |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 10:00 | -10:05 | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.7 | 23.6 | 23.5 | 23.5 | 23.4 | 23.5 | 23.53 | - | | | |
| Salinity (ppt) | 30.5 | 28.0 | 30.6 | 30.7 | 30.9 | 30.7 | 30.22 | - | | | |
| pН | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.68 | | | | |
| D.O. Saturation (%) | 92.3 | 89.3 | 91.1 | 89.0 | 93.9 | 92.3 | 91.32 | - | | | |
| D.O. (mg/L) | 8.2 | 8.0 | 8.2 | 8.0 | 8.4 | 8.3 | 8.17 | 8.35 | | | |
| Turbidity (NTU) | 7.9 | 7.8 | 7.8 | 7.9 | 7.3 | 8.1 | 7.80 | - | | | |
| SS (mg/L) | 11.0 | 11.0 | 9.0 | 10.0 | 10.0 | 9.0 | 10.00 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | C3 (| NM6) | | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 11:10 | -11:12 | | | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 24.4 | 24.2 | 23.9 | 24.0 | 23.6 | 23.4 | 23.89 | - | | | | |
| Salinity (ppt) | 29.0 | 29.5 | 30.6 | 30.2 | 31.2 | 31.4 | 30.32 | - | | | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.8 | 7.8 | 7.74 | | | | | |
| D.O. Saturation (%) | 85.1 | 90.8 | 90.1 | 95.2 | 85.3 | 90.7 | 89.53 | - | | | | |
| D.O. (mg/L) | 7.8 | 8.2 | 8.2 | 8.6 | 7.8 | 8.2 | 8.14 | 8.02 | | | | |
| Turbidity (NTU) | 7.1 | 6.8 | 7.8 | 7.4 | 9.3 | 8.9 | 7.88 | - | | | | |
| SS (mg/L) | 9.0 | 10.0 | 13.0 | 10.0 | 10.0 | 11.0 | 10.50 | - | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|------------------------|------------------------------|---------------------------------|---------|---------|---------|---------|----------------|------------|--|--|
| Time (hh:mm) | | | 10:20 | -10:22 | | | Northing | Easting | | |
| Water Depth (m) | | | 18 | 3.2 | | | 22.21.943 | 113.54.641 | | |
| Monitoring Depth (m) | 1 | .0 | 9 | 7.2 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.0 | 23.9 | 23.7 | 23.7 | 23.6 | 23.6 | 23.74 | - | | |
| Salinity (ppt) | 30.0 | 30.0 | 30.4 | 30.4 | 30.5 | 30.5 | 30.28 | - | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.71 | | | |
| D.O. Saturation (%) | 85.6 | 88.4 | 91.1 | 85.6 | 90.4 | 87.1 | 88.03 | - | | |
| D.O. (mg/L) | 7.8 | 8.2 | 8.2 | 7.8 | 8.2 | 7.9 | 8.00 | 8.02 | | |
| Turbidity (NTU) | 6.8 | 6.9 | 9.6 | 9.8 | 10.0 | 10.3 | 8.90 | - | | |
| SS (mg/L) | 12.0 10.0 10.0 11.0 9.0 12.0 | | | | | | 10.67 | - | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|------------|--|--|
| Time (hh:mm) | | | 10:13 | -10:15 | | | Northing | Easting | | |
| Water Depth (m) | | | 18 | 3.8 | | | 22.21.425 | 113.55.515 | | |
| Monitoring Depth (m) | 1 | .0 | 9 | 7.8 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.1 | 24.1 | 23.6 | 23.7 | 23.5 | 23.6 | 23.77 | - | | |
| Salinity (ppt) | 29.8 | 29.9 | 30.4 | 30.3 | 30.6 | 30.4 | 30.23 | - | | |
| рН | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.69 | | | |
| D.O. Saturation (%) | 92.9 | 91.2 | 88.5 | 87.1 | 89.8 | 87.2 | 89.45 | - | | |
| D.O. (mg/L) | 8.2 | 8.1 | 8.2 | 7.9 | 8.1 | 7.9 | 8.05 | 7.99 | | |
| Turbidity (NTU) | 6.7 | 6.5 | 8.4 | 9.0 | 9.6 | 9.4 | 8.27 | - | | |
| SS (mg/L) | 11.0 | 11.0 | 11.0 | 13.0 | 10.83 | - | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | IMO2 | | MPB1 | | MPB2 | | IP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 8.2 | 8.2 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 8.2 | 8.2 | N | N | Ν | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 10.2 | NA | N | N | N | N | N | N | Ň | Ň | Ň | Ν |
| SS (Depth-averaged) | 24.0 | 37.0 | 13.3 | 13.3 | N | Ν | N | N | N | N | N | N | N | Ν |

| Station | | | M | PB1 | | | | |
|------------------------|---------------------------------|---------|---------|---------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 10:39 | -10:41 | | | | |
| Water Depth (m) | | | 8 | | | | | |
| 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) | 23.9 | 23.9 | 23.9 | 23.7 | 23.8 | 23.8 | 23.84 | - |
| Salinity (ppt) | 29.4 | 29.4 | 29.8 | 30.3 | 29.8 | 29.8 | 29.75 | - |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.67 | |
| D.O. Saturation (%) | 86.0 | 89.2 | 94.6 | 88.3 | 99.4 | 87.7 | 90.87 | - |
| D.O. (mg/L) | 7.8 | 8.0 | 8.5 | 8.0 | 8.9 | 8.0 | 8.19 | 8.43 |
| Turbidity (NTU) | 8.7 | 8.7 | 10.0 | 10.1 | 10.2 | 10.4 | 9.68 | - |
| SS (mg/L) | 10.0 | 10.0 | 10.0 | 10.0 | 11.0 | 11.0 | 10.33 | - |
| Remarks | No dredging works was observed. | | | | | | | |

| Station | | | MF | PB2 | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 10:47 | -10:49 | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .7 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.8 | 24.4 | 24.0 | 24.2 | 23.8 | 23.8 | 24.16 | - | | |
| Salinity (ppt) | 28.8 | 28.9 | 29.4 | 29.1 | 30.1 | 30.1 | 29.40 | - | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.67 | | | |
| D.O. Saturation (%) | 78.4 | 92.4 | 83.7 | 83.8 | 96.6 | 88.1 | 87.17 | - | | |
| D.O. (mg/L) | 7.2 | 8.3 | 7.7 | 7.7 | 8.7 | 8.0 | 7.93 | 8.36 | | |
| Turbidity (NTU) | 7.5 | 7.6 | 7.5 | 6.6 | 8.5 | 9.0 | 7.78 | - | | |
| SS (mg/L) | 10.0 | 10.0 | 13.0 | 10.0 | 10.0 | 10.0 | 10.50 | - | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Station | | | N | IP | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 10:29 | -10:30 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.1 | 24.3 | - | - | 24.0 | 24.0 | 24.09 | - | | |
| Salinity (ppt) | 30.0 | 29.9 | - | - | 30.0 | 30.0 | 29.99 | - | | |
| pH | 7.7 | 7.7 | - | - | 7.7 | 7.7 | 7.69 | | | |
| D.O. Saturation (%) | 91.5 | 90.6 | - | - | 84.0 | 96.7 | 90.70 | - | | |
| D.O. (mg/L) | 8.3 | 8.2 | - | - | 7.6 | 8.6 | 8.18 | 8.14 | | |
| Turbidity (NTU) | 7.2 | 7.3 | - | - | 7.2 | 7.4 | 7.28 | - | | |
| SS (mg/L) | 12.0 | 9.0 | - | - | 11.0 | 8.0 | 10.00 | - | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Sampling Date | 11/11/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 28C |

| Station | | | C2 (| NM5) | | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 18 | 3.4 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .2 | 1 | 7.4 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 26.5 | 26.6 | 25.6 | 25.6 | 24.9 | 24.9 | 25.67 | - | |
| Salinity (ppt) | 26.1 | 25.9 | 29.3 | 29.3 | 31.2 | 31.2 | 28.81 | - | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.60 | | |
| D.O. Saturation (%) | 98.8 | 98.2 | 87.0 | 86.8 | 85.6 | 85.3 | 90.28 | - | |
| D.O. (mg/L) | 6.6 | 6.6 | 5.8 | 5.8 | 5.7 | 5.7 | 6.04 | 5.70 | |
| Turbidity (NTU) | 4.6 | 4.8 | 5.7 | 5.6 | 8.2 | 8.3 | 6.20 | - | |
| SS (mg/L) | 10.0 | 11.0 | 11.0 | 10.0 | 12.0 | 12.0 | 11.00 | - | |
| Remarks | | No dredging works was observed. | | | | | | | |

| Station | | | | Co-ord | dinates | | | |
|------------------------|---------|---------|---------|-------------|--------------|---------|-----------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 17 | 7.0 | | | 22.21.903 | 113.55.450 |
| Monitoring Depth (m) | 1 | .0 | 8 | .5 | 10 | 6.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 26.4 | 26.5 | 25.7 | 25.7 | 25.0 | 25.0 | 25.72 | - |
| Salinity (ppt) | 23.9 | 23.8 | 27.7 | 27.9 | 30.1 | 30.1 | 27.23 | - |
| pН | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.62 | |
| D.O. Saturation (%) | 96.7 | 98.2 | 86.3 | 86.7 | 84.6 | 85.7 | 89.70 | - |
| D.O. (mg/L) | 6.6 | 6.7 | 5.8 | 5.8 | 5.7 | 5.74 | 6.04 | 5.70 |
| Turbidity (NTU) | 5.1 | 5.0 | 6.5 | 6.7 | 7.5 | 7.6 | 6.40 | - |
| SS (mg/L) | 9.0 | 10.0 | 9.0 | 9.50 | - | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | IM | 02 | | | Co-ore | dinates | |
|-----------------------|---------------------------------|---------|---------|----------|---------|---------|--------------------|------------|--|
| Time (hh:mm) | | | | Northing | Easting | | | | |
| Water Depth (m) | | | 12 | 2.2 | | | 22.21.707 | 113.55.459 | |
| Monitoring Depth (m) | 1 | .0 | 6 | .1 | 1 | 1.2 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 26.6 | 26.7 | 26.0 | 26.1 | 25.2 | 25.2 | 25.98 | - | |
| Salinity (ppt) | 24.6 | 24.6 | 27.9 | 27.7 | 30.2 | 30.2 | 27.53 | - | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.58 | | |
| D.O. Saturation (%) | 100.3 | 99.4 | 89.8 | 89.8 | 85.4 | 85.2 | 91.65 | - | |
| D.O. (mg/L) | 6.8 | 6.7 | 6.0 | 6.0 | 5.7 | 5.69 | 6.15 | 5.70 | |
| Turbidity (NTU) | 4.7 | 4.7 | 5.7 | 5.8 | 6.7 | 6.5 | 5.68 | - | |
| SS (mg/L) | 9.0 | 10.0 | 10.0 | 10.00 | - | | | | |
| Remarks | No dredging works was observed. | | | | | | | | |

| Station | | | M | PB1 | | | | |
|-----------------------|---------------------------------|---------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| 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 (℃) | 27.0 | 27.0 | 25.8 | 25.9 | 25.8 | 25.7 | 26.19 | - |
| Salinity (ppt) | 20.5 | 20.3 | 27.2 | 27.0 | 27.9 | 28.2 | 25.16 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.57 | |
| D.O. Saturation (%) | 99.9 | 102.5 | 89.0 | 89.1 | 91.9 | 90.8 | 93.87 | - |
| D.O. (mg/L) | 6.8 | 7.0 | 6.0 | 6.0 | 6.2 | 6.1 | 6.34 | 6.12 |
| Turbidity (NTU) | 4.5 | 4.6 | 5.9 | 5.8 | 6.4 | 6.5 | 5.62 | - |
| SS (mg/L) | 9.0 | 9.0 | 10.0 | 9.0 | 10.0 | 10.0 | 9.50 | - |
| Remarks | No dredging works was observed. | | | | | | | |

| Station | | | MP | B2 | | |] | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| 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- | Bottom | |
| | | | | | | | averaged | | |
| Water Temperature (°C) | 27.0 | 27.1 | 26.7 | 26.6 | 26.0 | 26.2 | 26.59 | - | |
| Salinity (ppt) | 20.6 | 20.4 | 23.8 | 24.2 | 27.7 | 25.4 | 23.68 | - | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.69 | | |
| D.O. Saturation (%) | 107.5 | 107.7 | 92.6 | 95.1 | 91.9 | 90.1 | 97.48 | - | |
| D.O. (mg/L) | 7.4 | 7.4 | 6.3 | 6.4 | 6.2 | 6.1 | 6.60 | 6.11 | |
| Turbidity (NTU) | 4.6 | 4.6 | 6.9 | 6.9 | 7.9 | 7.9 | 6.47 | - | |
| SS (mg/L) | 10.0 | 11.0 | 9.0 | 10.0 | 10.0 | 10.0 | 10.00 | - | |
| Remarks | | No dredging works was observed. | | | | | | | |

| Station | | | Μ | P | | | 1 | |
|------------------------|---------|---------|---------|-------------|--------------|---------|--------------------|--------|
| Time (hh:mm) | | | 15:57 | -15:58 | | | | |
| Water Depth (m) | | | | | | | | |
| 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) | 26.5 | 26.6 | - | - | 25.9 | 25.9 | 26.20 | - |
| Salinity (ppt) | 22.5 | 22.2 | - | - | 27.4 | 27.3 | 24.85 | - |
| pH | 7.5 | 7.5 | - | - | 7.5 | 7.5 | 7.52 | |
| D.O. Saturation (%) | 96.9 | 98.4 | - | - | 91.1 | 87.5 | 93.48 | - |
| D.O. (mg/L) | 6.6 | 6.7 | - | - | 6.1 | 5.9 | 6.34 | 6.00 |
| Turbidity (NTU) | 5.7 | 5.6 | - | - | 7.5 | 7.4 | 6.55 | - |
| SS (mg/L) | 9.0 | 8.0 | - | - | 10.0 | 9.0 | 9.00 | - |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Parameter | As in | EM&A | C2*1 | C2*130% IMO1 | | IM | IMO2 | | MPB1 | | MPB2 | | IP | |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|-------|-------------------------|-------|--------------------------|---------------------------|--------|-------------------------|--------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action | | Exceedanc e of Action | Exceedance of Limit Level | | Exceedan ce of Limit | | Exceedan ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.7 | 5.7 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.1 | 8.1 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 14.3 | 14.3 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/11/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 29C |

| Station | | | C1 (l | NM3) | | | | |
|------------------------|---------|---------|---------|---------|-------------|-------------|----------------|--------|
| Time (hh:mm) | | | 12:23 | -12:26 | | | | |
| Water Depth (m) | | | 16 | 6.4 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 26.6 | 26.6 | 25.8 | 25.5 | 24.9 | 24.9 | 25.72 | - |
| Salinity (ppt) | 27.4 | 27.4 | 29.3 | 29.9 | 31.4 | 31.4 | 29.47 | - |
| pH | 7.5 | 7.6 | 7.5 | 7.6 | 7.5 | 7.5 | 7.53 | |
| D.O. Saturation (%) | 99.7 | 99.0 | 88.1 | 87.3 | 86.4 | 86.0 | 91.08 | - |
| D.O. (mg/L) | 6.7 | 6.6 | 5.9 | 5.8 | 5.8 | 5.7 | 6.07 | 5.75 |
| Turbidity (NTU) | 5.4 | 5.4 | 7.8 | 7.6 | 9.8 | 9.8 | 7.63 | - |
| SS (mg/L) | 12.0 | 10.0 | 12.0 | 10.0 | 10.0 | 12.0 | 11.00 | - |
| Remarks | | | | No dree | dging works | was observe | d. | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|---------|-------------|--------------|----------------|--------|
| Time (hh:mm) | | | 11:06 | | | | | |
| Water Depth (m) | | | 7 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.0 | 27.0 | 26.8 | 26.7 | 25.9 | 26.5 | 26.65 | - |
| Salinity (ppt) | 22.6 | 22.5 | 24.1 | 24.7 | 28.4 | 26.7 | 24.83 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.6 | 7.56 | |
| D.O. Saturation (%) | 110.9 | 110.5 | 99.7 | 100.2 | 94.9 | 97.8 | 102.33 | - |
| D.O. (mg/L) | 7.5 | 7.5 | 6.7 | 6.8 | 6.4 | 6.5 | 6.91 | 6.45 |
| Turbidity (NTU) | 4.4 | 4.4 | 5.4 | 5.3 | 6.9 | 6.8 | 5.53 | - |
| SS (mg/L) | 12.0 | 11.0 | 10.0 | 11.0 | 9.0 | 11.0 | 10.67 | - |
| Remarks | | | | No dree | dging works | was observed | 1. | |

| Station | | | IM | 01 | | | Co-ordinate | S |
|------------------------|---------|---------|---------|---------|-------------|-------------|----------------|---------|
| Time (hh:mm) | | | 11:59 | -12:03 | | | Northing | Easting |
| Water Depth (m) | | | 16 | 6.6 | | 22.21.916 | 113.55.433 | |
| Monitoring Depth (m) | 1 | .0 | 8 | 5.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 26.6 | 26.6 | 25.8 | 25.9 | 25.1 | 25.1 | 25.82 | - |
| Salinity (ppt) | 23.8 | 23.9 | 28.0 | 27.8 | 30.3 | 30.4 | 27.37 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.61 | |
| D.O. Saturation (%) | 97.8 | 97.4 | 87.0 | 87.1 | 85.3 | 86.8 | 90.23 | - |
| D.O. (mg/L) | 6.6 | 6.6 | 5.8 | 5.8 | 5.7 | 5.8 | 6.08 | 5.76 |
| Turbidity (NTU) | 5.3 | 5.3 | 6.3 | 6.2 | 7.9 | 7.8 | 6.47 | - |
| SS (mg/L) | 9.0 | 10.0 | 10.0 | 11.0 | 10.0 | 10.0 | 10.00 | - |
| Remarks | | | | No dree | dging works | was observe | d. | |

| Station | | | IM | 02 | | | Co-ordinate | S |
|-----------------------|---------|---------|---------|---------|-----------|------------|----------------|---------|
| Time (hh:mm) | | | 12:10 | -12:13 | | | Northing | Easting |
| Water Depth (m) | | | 11 | | 22.21.716 | 113.55.471 | | |
| Monitoring Depth (m) | 1 | .0 | 5 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 26.8 | 26.8 | 26.0 | 26.1 | 25.3 | 25.3 | 26.03 | - |
| Salinity (ppt) | 24.4 | 24.4 | 27.7 | 7.6 | 30.2 | 30.2 | 27.38 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.62 | |
| D.O. Saturation (%) | 101.0 | 100.0 | 88.3 | 89.3 | 85.7 | 85.3 | 91.60 | - |
| D.O. (mg/L) | 6.8 | 6.8 | 5.9 | 6.0 | 5.7 | 5.7 | 6.15 | 5.71 |
| Turbidity (NTU) | 4.6 | 4.7 | 5.7 | 5.5 | 6.7 | 6.6 | 5.63 | - |
| SS (mg/L) | 9.0 | 9.0 | 10.0 | 10.0 | 10.0 | 9.0 | 9.50 | - |
| Remarks | | | | d. | | | | |

| Compliance | with | Action | and I | imit | evel | |
|------------|------|--------|-------|------|------|--|

| Compliance with Action an | a Limit Lev | ei | | | | | | | | | | | | |
|----------------------------|-------------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 01 | IMO2 | IMO2 | | MPB1 | | PB2 | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.1 | 6.1 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.6 | 8.6 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 14.1 | 14.1 | N | N | N | N | N | N | N | Ν | N | N |

| Station | | | MF | PB1 | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 11:32 | -11:35 | | | | | | |
| Water Depth (m) | | | 8 | .4 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .4 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 27.0 | 27.0 | 25.8 | 25.9 | 25.7 | 25.7 | 26.18 | - | | |
| Salinity (ppt) | 20.8 | 20.6 | 27.4 | 27.5 | 28.8 | 28.8 | 25.65 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.58 | | | |
| D.O. Saturation (%) | 101.5 | 100.1 | 89.0 | 88.1 | 92.0 | 91.1 | 93.63 | - | | |
| D.O. (mg/L) | 7.0 | 6.9 | 6.0 | 5.9 | 6.2 | 6.1 | 6.33 | 6.13 | | |
| Turbidity (NTU) | 6.0 | 5.6 | 6.5 | 6.4 | 7.2 | 7.2 | 6.48 | - | | |
| SS (mg/L) | 9.0 | 8.0 | 10.0 | 9.0 | 10.0 | 11.0 | 9.50 | - | | |
| Remarks | | No dredging works was observed. | | | | | | | | |

| Station | | | MF | B2 | | | | |
|------------------------|---------|---------|---------|-----------|-------------|-------------|----------------|--------|
| Time (hh:mm) | | | 11:23 | -11:25 | | | | |
| Water Depth (m) | | | 9 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 27.1 | 27.2 | 26.8 | 26.6 | 26.0 | 26.0 | 26.60 | - |
| Salinity (ppt) | 20.7 | 20.6 | 23.9 | 24.9 | 28.0 | 28.2 | 24.37 | - |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.70 | |
| D.O. Saturation (%) | 104.6 | 104.9 | 95.9 | 95.2 | 91.0 | 90.9 | 97.08 | - |
| D.O. (mg/L) | 7.2 | 7.2 | 6.5 | 6.4 | 6.1 | 6.1 | 6.57 | 6.09 |
| Turbidity (NTU) | 5.0 | 5.0 | 7.2 | 7.0 | 8.5 | 8.4 | 6.85 | - |
| SS (mg/L) | 8.0 | 9.0 | 10.0 | 12.0 | 9.0 | 10.0 | 9.67 | - |
| Remarks | | | | No dredgi | ng works wa | s observed. | | |

| Station | | | N | IP | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 11:42 | -11:43 | | | | |
| Water Depth (m) | | | 5 | .6 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 26.5 | 26.6 | - | - | 25.9 | 25.9 | 26.26 | - |
| Salinity (ppt) | 22.6 | 22.3 | - | - | 27.6 | 27.6 | 25.04 | - |
| pH | 7.6 | 7.6 | - | - | 7.6 | 7.5 | 7.56 | |
| D.O. Saturation (%) | 94.8 | 95.0 | - | - | 88.8 | 87.4 | 91.50 | - |
| D.O. (mg/L) | 6.5 | 6.5 | - | - | 6.0 | 5.9 | 6.20 | 5.91 |
| Turbidity (NTU) | 5.6 | 5.5 | - | - | 7.4 | 7.5 | 6.50 | - |
| SS (mg/L) | 12.0 | 10.0 | - | - | 10.0 | 9.0 | 10.25 | - |
| Remarks | | | | | | | | |

| Sampling Date | 11/12/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 26C |

| Station | | | C2 (| NM5) | | |] | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 17:19 | -17:21 | | | | | | | |
| Water Depth (m) | | | 20 |).2 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.1 | 19 | 9.2 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.1 | 24.2 | 23.5 | 23.6 | 23.2 | 23.4 | 23.69 | - | | | |
| Salinity (ppt) | 29.5 | 29.4 | 30.4 | 30.3 | 31.1 | 30.8 | 30.25 | - | | | |
| pН | 7.6 | 7.6 | 7.7 | 7.7 | 7.7 | 7.7 | 7.66 | | | | |
| D.O. Saturation (%) | 95.7 | 96.1 | 94.7 | 95.1 | 94.4 | 92.2 | 94.70 | - | | | |
| D.O. (mg/L) | 8.4 | 8.3 | 8.3 | 8.3 | 8.3 | 8.1 | 8.29 | 8.22 | | | |
| Turbidity (NTU) | 7.3 | 7.3 | 6.6 | 6.8 | 6.8 | 6.9 | 6.95 | - | | | |
| SS (mg/L) | 6.0 | 6.0 | 7.00 | - | | | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | dinates |
|------------------------|---------|---------|-----------|-------------|--------------|---------|----------|---------|
| Time (hh:mm) | | | 17:32 | -17:33 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.122 | 113.55.160 | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .3 | 17 | 7.6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.6 | 24.2 | 23.7 | 23.7 | 23.5 | 23.5 | 23.84 | - |
| Salinity (ppt) | 29.2 | 29.6 | 30.4 | 30.5 | 30.8 | 30.9 | 30.22 | - |
| pН | 7.7 | 7.6 | 7.6 | 7.7 | 7.6 | 7.7 | 7.65 | |
| D.O. Saturation (%) | 105.5 | 107.3 | 107.7 | 105.7 | 108.8 | 105.9 | 106.82 | - |
| D.O. (mg/L) | 8.3 | 8.4 | 8.5 | 8.4 | 8.6 | 8.37 | 8.42 | 8.49 |
| Turbidity (NTU) | 6.2 | 5.8 | 6.4 | 6.6 | 6.5 | 6.3 | 6.30 | - |
| SS (mg/L) | 6.0 | 6.0 | 6.67 | - | | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | IM | 02 | | | Co-ore | dinates |
|------------------------|---------|---------|---------|-------------|--------------|---------|-----------|------------|
| Time (hh:mm) | | | 17:41 | -17:43 | | | Northing | Easting |
| Water Depth (m) | | | 20 |).2 | | | 22.21.811 | 113.55.642 |
| Monitoring Depth (m) | 1 | .0 | 10 |).1 | 19 | 9.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.2 | 24.1 | 23.7 | 23.8 | 23.4 | 23.4 | 23.77 | - |
| Salinity (ppt) | 29.8 | 29.9 | 30.4 | 30.3 | 31.0 | 31.1 | 30.43 | - |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.67 | |
| D.O. Saturation (%) | 102.0 | 103.6 | 100.9 | 102.4 | 101.9 | 103.1 | 102.32 | - |
| D.O. (mg/L) | 8.0 | 8.2 | 8.0 | 8.1 | 8.1 | 8.16 | 8.07 | 8.11 |
| Turbidity (NTU) | 7.0 | 7.4 | 6.3 | 6.9 | 6.7 | 7.3 | 6.93 | - |
| SS (mg/L) | 6.0 | 8.0 | 8.0 | 7.00 | - | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | M | PB1 | | | | | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | | | | | | | | | |
| Water Depth (m) | | | 8 | 3.6 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.6 | 24.7 | 24.1 | 24.2 | 23.6 | 23.5 | 24.12 | - | | | |
| Salinity (ppt) | 29.2 | 29.0 | 29.9 | 29.8 | 31.1 | 31.3 | 30.05 | - | | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 | 7.7 | 7.63 | | | | |
| D.O. Saturation (%) | 84.5 | 93.6 | 103.1 | 89.3 | 96.7 | 96.4 | 93.93 | - | | | |
| D.O. (mg/L) | 7.5 | 8.2 | 9.1 | 7.9 | 8.5 | 8.5 | 8.27 | 8.48 | | | |
| Turbidity (NTU) | 7.4 | 7.1 | 8.2 | 8.0 | 7.3 | 7.6 | 7.60 | - | | | |
| SS (mg/L) | 9.0 | 7.0 | 6.0 | 7.0 | 6.0 | 6.0 | 6.83 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | MP | PB2 | | |] | |
|------------------------|---------|---------|---------|-------------|--------------|---------|----------|--------|
| Time (hh:mm) | | | 16:52 | -16:53 | | | | |
| Water Depth (m) | | | 9 | .1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .6 | 8 | .1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.7 | 24.7 | 24.0 | 23.9 | 23.8 | 23.8 | 24.17 | - |
| Salinity (ppt) | 29.2 | 29.3 | 30.1 | 30.2 | 30.6 | 30.6 | 30.00 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.60 | |
| D.O. Saturation (%) | 84.9 | 87.4 | 100.0 | 96.7 | 95.1 | 97.0 | 93.52 | - |
| D.O. (mg/L) | 7.6 | 7.8 | 8.8 | 8.6 | 8.4 | 8.6 | 8.29 | 8.49 |
| Turbidity (NTU) | 6.1 | 6.1 | 8.0 | 7.9 | 7.7 | 8.4 | 7.37 | - |
| SS (mg/L) | 7.0 | 7.0 | 8.0 | 7.17 | - | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Station | | | N | P | | | 1 | |
|------------------------|---------|---------|---------|-------------|--------------|---------|--------------------|--------|
| Time (hh:mm) | | | 17:10 | -17:11 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.2 | 25.0 | - | - | 23.5 | 23.5 | 24.05 | - |
| Salinity (ppt) | 29.5 | 28.9 | - | - | 30.5 | 30.6 | 29.88 | - |
| рН | 7.6 | 7.6 | - | - | 7.7 | 7.7 | 7.64 | |
| D.O. Saturation (%) | 102.3 | 101.5 | - | - | 89.6 | 93.3 | 96.68 | - |
| D.O. (mg/L) | 9.0 | 8.9 | - | - | 7.9 | 8.2 | 8.52 | 8.09 |
| Turbidity (NTU) | 7.0 | 6.9 | 7.13 | - | | | | |
| SS (mg/L) | 6.0 | 7.0 | 6.0 | 6.75 | - | | | |
| Remarks | | | No | dredging wo | orks was obs | erved. | | |

| Parameter | As in | EM&A | C2*130% | | IM | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|-------|-------------------------|---|-------|------|--------|-------------------------|--------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action | eedance Exceedance Exceeda Action of Limit e of Action | | | | Exceedan ce of Limit | | Exceedan ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 8.2 | 8.2 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 8.3 | 8.3 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.0 | 9.0 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 9.1 | 9.1 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/12/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 27C |

| Station | | | C1 (| NM3) | | | | |
|------------------------|---------|---------|---------|--------------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 11:53 | | | | | |
| Water Depth (m) | | | 16 | 6.1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .1 | 15 | 5.1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 23.8 | 23.7 | 23.6 | 23.6 | 23.5 | 23.6 | 23.63 | - |
| Salinity (ppt) | 30.3 | 27.9 | 30.5 | 30.5 | 30.6 | 30.5 | 30.05 | - |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.68 | |
| D.O. Saturation (%) | 97.3 | 94.3 | 96.1 | 94.0 | 98.9 | 97.3 | 96.32 | - |
| D.O. (mg/L) | 8.4 | 8.2 | 8.4 | 8.2 | 8.7 | 8.5 | 8.41 | 8.59 |
| Turbidity (NTU) | 7.5 | 7.4 | 7.4 | 7.5 | 6.9 | 7.7 | 7.40 | - |
| SS (mg/L) | 6.0 | 8.0 | 8.0 | 7.0 | 8.0 | 7.0 | 7.33 | - |
| Remarks | | | | was observed | d. | | | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|---------|-------------|--------------|----------------|--------|
| Time (hh:mm) | | | 13:03 | | | | | |
| 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) | 24.5 | 24.3 | 24.0 | 24.1 | 23.7 | 23.5 | 23.99 | - |
| Salinity (ppt) | 28.9 | 29.4 | 30.4 | 30.1 | 31.1 | 31.3 | 30.19 | - |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.8 | 7.8 | 7.74 | |
| D.O. Saturation (%) | 90.1 | 95.8 | 95.1 | 100.2 | 90.3 | 95.7 | 94.53 | - |
| D.O. (mg/L) | 8.0 | 8.5 | 8.4 | 8.9 | 8.0 | 8.5 | 8.38 | 8.26 |
| Turbidity (NTU) | 6.7 | 6.4 | 7.4 | 7.0 | 8.9 | 8.5 | 7.48 | - |
| SS (mg/L) | 6.0 | 8.0 | 7.0 | 5.0 | 6.50 | - | | |
| Remarks | | | | No dree | dging works | was observed | d. | |

| Station | | | IM | 01 | | | Co-ordinate | s | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 12:14 | -12:15 | | | Northing | Easting | | | |
| Water Depth (m) | | | 19 | 9.2 | | | 22.21.910 | 113.54.473 | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 3.2 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.1 | 24.0 | 23.8 | 23.8 | 23.7 | 23.7 | 23.84 | - | | | |
| Salinity (ppt) | 29.8 | 29.9 | 30.3 | 30.2 | 30.3 | 30.4 | 30.15 | - | | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.71 | | | | |
| D.O. Saturation (%) | 90.6 | 93.4 | 96.1 | 90.6 | 95.4 | 92.1 | 93.03 | - | | | |
| D.O. (mg/L) | 8.0 | 8.4 | 8.5 | 8.0 | 8.4 | 8.1 | 8.24 | 8.26 | | | |
| Turbidity (NTU) | 6.4 | 6.5 | 9.2 | 9.4 | 9.6 | 9.9 | 8.50 | - | | | |
| SS (mg/L) | 7.0 | 6.0 | 9.0 | 9.0 | 7.17 | - | | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | | |
|-----------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 12:07 | -12:09 | | | Northing | Easting | | | |
| Water Depth (m) | | | 20 |).1 | | | 22.21.460 | 113.55.525 | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 9.1 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 24.2 | 24.2 | 23.8 | 23.7 | 23.6 | 23.7 | 23.87 | - | | | |
| Salinity (ppt) | 29.7 | 29.7 | 30.2 | 30.2 | 30.5 | 30.3 | 30.10 | - | | | |
| рН | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.69 | | | | |
| D.O. Saturation (%) | 97.9 | 96.2 | 92.1 | 93.5 | 94.8 | 92.2 | 94.45 | - | | | |
| D.O. (mg/L) | 8.4 | 8.3 | 8.1 | 8.4 | 8.3 | 8.1 | 8.29 | 8.23 | | | |
| Turbidity (NTU) | 6.3 | 6.1 | 8.6 | 8.0 | 9.2 | 9.0 | 7.87 | - | | | |
| SS (mg/L) | 9.0 | 6.0 | 6.0 | 6.0 | 7.0 | 7.0 | 6.83 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

Station MPB1 Time (hh:mm) 12:32-12:34 Water Depth (m) 8.3 Monitoring Depth (m) 1.0 4.2 7.3 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 24.0 24.0 24.0 23.8 23.9 23.9 23.94 Salinity (ppt) 29.3 7.7 29.3 29.7 30.1 29.7 29.7 29.62 рН 7.7 7.7 7.7 7.7 7.7 7.67 D.O. Saturation (%) 91.0 94.2 99.6 93.3 104.4 92.7 95.87 D.O. (mg/L) 8.0 8.2 8.8 8.3 9.1 8.2 8.43 8.67 8.3 8.3 9.6 9.7 9.8 10.0 9.28 Turbidity (NTU) SS (mg/L) 10.0 8.0 7.0 6.0 8.0 11.0 8.33 Remarks No dredging works was observed.

| Station | | | MF | PB2 | | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 12:41 | -12:43 | | | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 24.9 | 24.5 | 24.1 | 24.3 | 23.9 | 23.9 | 24.26 | - | | | | |
| Salinity (ppt) | 28.7 | 28.8 | 29.3 | 29.0 | 30.0 | 30.0 | 29.27 | - | | | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.67 | | | | | |
| D.O. Saturation (%) | 83.4 | 97.4 | 88.7 | 88.8 | 101.6 | 93.1 | 92.17 | - | | | | |
| D.O. (mg/L) | 7.5 | 8.6 | 7.9 | 7.9 | 8.9 | 8.3 | 8.17 | 8.60 | | | | |
| Turbidity (NTU) | 7.1 | 7.2 | 7.1 | 6.2 | 8.1 | 8.6 | 7.38 | - | | | | |
| SS (mg/L) | 8.0 | 8.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.17 | - | | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | | | | | |
|------------------------|---------|---------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 12:23 | -12:23 | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .7 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.2 | 24.4 | - | - | 24.1 | 24.1 | 24.19 | - | | | |
| Salinity (ppt) | 29.9 | 29.8 | - | - | 29.9 | 29.9 | 29.86 | - | | | |
| pH | 7.7 | 7.7 | - | - | 7.7 | 7.7 | 7.69 | | | | |
| D.O. Saturation (%) | 96.5 | 95.6 | - | - | 89.0 | 101.7 | 95.70 | - | | | |
| D.O. (mg/L) | 8.5 | 8.4 | - | - | 7.9 | 8.9 | 8.42 | 8.38 | | | |
| Turbidity (NTU) | 6.8 | 6.9 | - | - | 6.8 | 7.0 | 6.88 | - | | | |
| SS (mg/L) | 8.0 | 7.0 | - | - | 8.0 | 6.0 | 7.25 | - | | | |
| Remarks | | No dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | Mean(C1+ | -C3)*130% | IM | 01 | IMO2 | | MPB1 | | MPB2 | | MP | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 8.4 | 8.4 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 8.4 | 8.4 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.7 | 9.7 | N | N | Ν | N | Ν | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 9.0 | 9.0 | N | Ν | Ν | N | N | N | N | N | N | N |

| Sampling Date | 11/15/08 |
|-------------------------------|-----------|
| Weather & Ambient Temperature | Fine, 25C |

| Station | | | |] | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 19:02 | -19:04 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).2 | 19 | 9.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.1 | 24.1 | 24.3 | 24.3 | 24.4 | 24.4 | 24.26 | - | | | |
| Salinity (ppt) | 29.6 | 29.7 | 35.2 | 35.3 | 36.1 | 36.1 | 33.67 | - | | | |
| pН | 7.8 | 7.8 | 7.9 | 7.9 | 7.8 | 7.8 | 7.83 | | | | |
| D.O. Saturation (%) | 96.2 | 96.0 | 91.7 | 93.4 | 94.4 | 93.9 | 94.27 | - | | | |
| D.O. (mg/L) | 6.8 | 6.8 | 6.2 | 6.4 | 6.4 | 6.4 | 6.48 | 6.36 | | | |
| Turbidity (NTU) | 3.7 | 3.8 | 3.1 | 2.9 | 5.6 | 5.9 | 4.17 | - | | | |
| SS (mg/L) | 6.0 | 6.0 | 10.0 | 10.0 | 13.0 | 14.0 | 9.83 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | linates |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|---------|
| Time (hh:mm) | | | 19:19 | -19:21 | | | Northing | Easting |
| Water Depth (m) | | | | 22.21.446 | 113.54.166 | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .3 | 9 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.3 | 24.3 | 24.2 | 24.2 | 24.1 | 24.1 | 24.22 | - |
| Salinity (ppt) | 29.2 | 29.3 | 34.1 | 34.1 | 36.0 | 36.0 | 33.10 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.92 | |
| D.O. Saturation (%) | 98.3 | 98.4 | 97.1 | 96.8 | 97.5 | 97.5 | 97.60 | - |
| D.O. (mg/L) | 7.0 | 7.0 | 6.7 | 6.7 | 6.6 | 6.70 | 6.78 | 6.67 |
| Turbidity (NTU) | 4.0 | 4.3 | 12.2 | 12.8 | 18.9 | 19.0 | 11.87 | - |
| SS (mg/L) | 7.0 | 8.0 | 10.50 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | linates | | |
|------------------------|---------|------------------------------|-----------|------------|---------|---------|--------------------|---------|--|--|
| Time (hh:mm) | | | 19:31 | -19:33 | | | Northing | Easting | | |
| Water Depth (m) | | | 22.21.336 | 113.55.108 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .5 | 10 | 0.0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (°C) | 24.0 | 24.0 | 24.2 | 24.2 | 24.4 | 24.4 | 24.20 | - | | |
| Salinity (ppt) | 31.1 | 31.3 | 35.4 | 35.4 | 36.6 | 36.7 | 34.42 | - | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.91 | | | |
| D.O. Saturation (%) | 96.3 | 96.8 | 97.0 | 97.4 | 97.5 | 98.8 | 97.30 | - | | |
| D.O. (mg/L) | 6.8 | 6.8 | 6.6 | 6.7 | 6.6 | 6.68 | 6.69 | 6.64 | | |
| Turbidity (NTU) | 10.9 | 10.6 | 6.6 | 6.5 | 8.0 | 7.9 | 8.42 | - | | |
| SS (mg/L) | 15.0 | 16.0 | 18.0 | 15.83 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | PB1 | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 18:34 | -18:36 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | 3.7 | 6 | .4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.2 | 24.2 | 24.0 | 24.0 | 24.1 | 24.1 | 24.10 | - | | | |
| Salinity (ppt) | 30.2 | 30.4 | 32.2 | 32.1 | 33.7 | 33.8 | 32.07 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.97 | | | | |
| D.O. Saturation (%) | 94.2 | 94.7 | 94.3 | 93.1 | 94.7 | 95.6 | 94.43 | - | | | |
| D.O. (mg/L) | 6.6 | 6.7 | 6.6 | 6.5 | 6.6 | 6.6 | 6.60 | 6.59 | | | |
| Turbidity (NTU) | 7.6 | 7.6 | 12.7 | 13.2 | 14.6 | 15.1 | 11.80 | - | | | |
| SS (mg/L) | 11.0 | 11.0 | 14.0 | 13.0 | 15.0 | 15.0 | 13.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB2 | | |] | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|--|
| Time (hh:mm) | | | 18:22 | -18:24 | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | | | | | | averaged | | | | | |
| Water Temperature (°C) | 24.5 | 24.5 | 24.1 | 24.1 | 24.0 | 24.0 | 24.18 | - | | | | |
| Salinity (ppt) | 29.0 | 29.0 | 31.1 | 31.2 | 33.5 | 33.5 | 31.23 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.00 | | | | | |
| D.O. Saturation (%) | 95.9 | 96.6 | 94.1 | 93.6 | 95.8 | 95.5 | 95.25 | - | | | | |
| D.O. (mg/L) | 6.8 | 6.8 | 6.6 | 6.6 | 6.6 | 6.6 | 6.67 | 6.64 | | | | |
| Turbidity (NTU) | 5.5 | 5.2 | 10.5 | 10.2 | 13.6 | 13.2 | 9.70 | - | | | | |
| SS (mg/L) | 6.0 | 8.0 | 10.0 | 7.83 | - | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 18:44 | -18:45 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 24.2 | 24.2 | - | - | 23.9 | 24.0 | 24.09 | - | | | |
| Salinity (ppt) | 30.5 | 30.4 | - | - | 32.3 | 32.4 | 31.39 | - | | | |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 7.96 | | | | |
| D.O. Saturation (%) | 96.8 | 97.1 | - | - | 99.3 | 98.6 | 97.95 | - | | | |
| D.O. (mg/L) | 6.8 | 6.8 | - | - | 6.9 | 6.9 | 6.87 | 6.92 | | | |
| Turbidity (NTU) | 6.6 | 6.2 | - | - | 12.5 | 12.1 | 9.35 | - | | | |
| SS (mg/L) | 11.0 | 12.0 | - | - | 15.0 | 14.0 | 13.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | C2*130% | | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|--------|-------|--------|---------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.4 | 6.4 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 5.4 | 5.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 12.8 | 12.8 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/15/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (| NM3) | | | | |
|------------------------|---------|---------|---------|----------------|--------------|--------------|-------|------|
| Time (hh:mm) | | | 14:04 | | | | | |
| Water Depth (m) | | | 16 | 5.4 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.6 | 24.6 | 24.4 | 24.5 | 24.5 | 24.5 | 24.52 | - |
| Salinity (ppt) | 36.2 | 36.3 | 36.7 | 36.69 | - | | | |
| pH | 7.8 | 7.8 | 7.8 | 7.78 | | | | |
| D.O. Saturation (%) | 89.2 | 89.8 | 85.8 | 85.5 | 84.7 | 84.9 | 86.65 | - |
| D.O. (mg/L) | 6.0 | 6.1 | 5.8 | 5.8 | 5.7 | 5.7 | 5.86 | 5.73 |
| Turbidity (NTU) | 7.5 | 7.2 | 12.6 | 12.8 | 15.6 | 15.8 | 11.92 | - |
| SS (mg/L) | 7.0 | 7.0 | 8.0 | 10.0 | 8.17 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (I | | | | | |
|------------------------|---------|---------|---------|---------|-------------|--------------|----------------|--------|
| Time (hh:mm) | | | 15:27 | | | | | |
| 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) | 24.5 | 24.5 | 24.2 | 24.2 | 24.2 | 24.2 | 24.28 | - |
| Salinity (ppt) | 30.3 | 30.3 | 33.9 | 33.8 | 35.4 | 35.4 | 33.16 | - |
| pH | 8.1 | 8.1 | 8.1 | 8.09 | | | | |
| D.O. Saturation (%) | 101.0 | 101.3 | 100.2 | 100.9 | 107.3 | 106.0 | 102.78 | - |
| D.O. (mg/L) | 7.1 | 7.1 | 6.9 | 6.9 | 7.4 | 7.3 | 7.12 | 7.31 |
| Turbidity (NTU) | 3.1 | 3.1 | 7.9 | 8.2 | 13.4 | 14.1 | 8.30 | - |
| SS (mg/L) | 9.0 | 7.0 | 10.0 | 10.0 | 9.00 | - | | |
| Remarks | | | | Dredg | ing works w | as observed. | | |

| Station | | | IM | | Co-ordinate | S | | |
|------------------------|--|-------------------------------|-------|--------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 14:32 | -14:35 | | Northing | Easting | |
| Water Depth (m) | | | 11 | | 22.21.439 | 113.54.162 | | |
| Monitoring Depth (m) | 1 | .0 | 5 | | | | | |
| Trial | 1.0 5.5 10.0 Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 | | | | | | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.3 | 24.3 | 24.1 | 24.1 | 24.3 | 24.3 | 24.23 | - |
| Salinity (ppt) | 29.6 | 29.6 29.7 34.2 34.1 36.4 36.4 | | | 33.42 | - | | |
| pH | 7.9 | | | | | | 7.97 | |
| D.O. Saturation (%) | 99.4 | 99.2 | 98.1 | 97.9 | 97.2 | 98.2 | 98.33 | - |
| D.O. (mg/L) | 7.0 | 7.0 | 6.8 | 6.8 | 6.6 | 6.7 | 6.81 | 6.64 |
| Turbidity (NTU) | 5.2 4.9 12.6 13.3 16.3 17.4 | | | | | | 11.62 | - |
| SS (mg/L) | 7.0 | 8.0 | 8.0 | 10.0 | 10.0 | 8.83 | - | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | | Co-ordinate | s | | |
|------------------------|---------|---------|---------|----------------|--------------|--------------|-----------|------------|
| Time (hh:mm) | | | 14:19 | | Northing | Easting | | |
| Water Depth (m) | | | 11 | .4 | | | 22.21.347 | 113.55.111 |
| Monitoring Depth (m) | 1 | .0 | 5 | .7 | 10 |).4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.2 | 24.1 | 24.2 | 24.2 | 24.4 | 24.4 | 24.25 | - |
| Salinity (ppt) | 31.0 | 31.1 | 34.9 | 35.0 | 36.5 | 36.5 | 34.16 | - |
| pH | 7.9 | | | | | | 7.93 | |
| D.O. Saturation (%) | 92.1 | 91.8 | 92.2 | 92.4 | 92.5 | 92.5 | 92.25 | - |
| D.O. (mg/L) | 6.5 | 6.5 | 6.3 | 6.3 | 6.3 | 6.3 | 6.36 | 6.27 |
| Turbidity (NTU) | 13.5 | 12.9 | 6.5 | 6.2 | 4.2 | 4.3 | 7.93 | - |
| SS (mg/L) | 16.0 | 14.0 | 20.0 | 13.0 | 15.67 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | MPB1 | | MPB2 | | MP | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.5 | 6.5 | N | N | Ν | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 13.1 | 13.1 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.2 | 11.2 | N | N | N | N | Ν | N | N | Ν | N | N |

| Station | | | MF | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 14:58 | -15:00 | | | | | | |
| Water Depth (m) | | | 7 | .6 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .8 | 6 | .6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.3 | 24.3 | 24.1 | 24.1 | 24.2 | 24.3 | 24.21 | - | | |
| Salinity (ppt) | 30.3 | 30.3 | 31.2 | 31.4 | 34.1 | 34.1 | 31.91 | - | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | | | |
| D.O. Saturation (%) | 98.5 | 97.5 | 96.3 | 97.5 | 101.1 | 100.5 | 98.57 | - | | |
| D.O. (mg/L) | 6.9 | 6.9 | 6.8 | 6.9 | 7.0 | 6.9 | 6.89 | 6.96 | | |
| Turbidity (NTU) | 6.0 | 5.9 | 9.9 | 10.4 | 18.7 | 18.5 | 11.57 | - | | |
| SS (mg/L) | 10.0 | 12.0 | 13.0 | 13.0 | 13.0 | 13.0 | 12.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB2 | | | | |
|------------------------|---------|---------|---------|----------------|-------------|-----------|-------|------|
| Time (hh:mm) | | | 15:10 | | | | | |
| Water Depth (m) | | | 8 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .4 | 7 | .8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.5 | 24.5 | 24.2 | 24.1 | 24.1 | 24.1 | 24.23 | - |
| Salinity (ppt) | 29.2 | 29.3 | 31.17 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.03 | | | | |
| D.O. Saturation (%) | 97.5 | 98.0 | 95.2 | 95.6 | 98.1 | 98.4 | 97.13 | - |
| D.O. (mg/L) | 6.9 | 6.9 | 6.7 | 6.7 | 6.8 | 6.8 | 6.82 | 6.82 |
| Turbidity (NTU) | 3.2 | 3.3 | 6.8 | 8.42 | - | | | |
| SS (mg/L) | 6.0 | 8.0 | 6.0 | 8.0 | 6.83 | - | | |
| Remarks | | | | Dredging | g works was | observed. | | |

| Station | | | N | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 14:48 | | | | | | | | |
| Water Depth (m) | | | 5 | .9 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .0 | 4 | .9 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.4 | 24.4 | - | - | 24.0 | 24.0 | 24.18 | - | | | |
| Salinity (ppt) | 30.5 | 30.5 | - | - | 32.5 | 32.5 | 31.49 | - | | | |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 8.00 | | | | |
| D.O. Saturation (%) | 99.9 | 102.2 | - | - | 98.5 | 99.1 | 99.93 | - | | | |
| D.O. (mg/L) | 7.0 | 7.2 | - | - | 6.9 | 6.9 | 7.01 | 6.91 | | | |
| Turbidity (NTU) | 5.1 | 5.0 | - | - | 14.9 | 15.1 | 10.03 | - | | | |
| SS (mg/L) | 9.0 | 11.0 | - | 11.0 | 10.75 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Sampling Date | 11/16/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 14:03 | -14:05 | | | | | | |
| Water Depth (m) | | | 19 | 9.0 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .5 | 1 | 8.0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.50 | - | | |
| Salinity (ppt) | 34.8 | 34.8 | 35.6 | 35.7 | 36.4 | 35.9 | 35.53 | - | | |
| pH | 7.9 | 7.8 | 7.9 | 7.8 | 7.8 | 7.9 | 7.84 | | | |
| D.O. Saturation (%) | 98.4 | 100.0 | 98.5 | 98.6 | 99.3 | 99.4 | 99.03 | - | | |
| D.O. (mg/L) | 6.7 | 6.8 | 6.7 | 6.7 | 6.7 | 6.8 | 6.75 | 6.75 | | |
| Turbidity (NTU) | 4.8 | 4.5 | 7.5 | 7.8 | 8.6 | 8.7 | 6.98 | - | | |
| SS (mg/L) | 10.0 | 9.0 | 12.0 | 12.0 | 16.0 | 17.0 | 12.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | IMO1 | | | | | | | | | | |
|------------------------|---------|---------|---------|--------------|-----------------|---------|-----------|------------|--|--|--|--|
| Time (hh:mm) | | | | Northing | Easting | | | | | | | |
| Water Depth (m) | | | 9 | .4 | | | 22.21.247 | 113.53.968 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .7 | 8 | .4 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 2 Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | | | | | | averaged | | | | | |
| Water Temperature (°C) | 24.4 | 24.4 | 24.1 | 24.1 | 24.2 | 24.2 | 24.23 | - | | | | |
| Salinity (ppt) | 26.5 | 26.5 | 29.9 | 29.5 | 31.8 | 32.0 | 29.36 | - | | | | |
| рН | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.87 | | | | | |
| D.O. Saturation (%) | 94.1 | 93.4 | 92.7 | 93.6 | 95.1 | 93.6 | 93.75 | - | | | | |
| D.O. (mg/L) | 6.8 | 6.7 | 6.6 | 6.6 | 6.7 | 6.54 | 6.65 | 6.60 | | | | |
| Turbidity (NTU) | 6.7 | 6.5 | 8.97 | - | | | | | | | | |
| SS (mg/L) | 10.0 | 12.0 | 11.50 | - | | | | | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | • | | | | |

| Station | | | IM | 02 | | | Co-or | dinates |
|------------------------|---------|---------|-----------|---------------|-------------|---------|--------------------|---------|
| Time (hh:mm) | | | 15:09 | -15:10 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.061 | 113.54.833 | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.4 | 24.6 | 24.2 | 24.1 | 24.3 | 24.3 | 24.32 | - |
| Salinity (ppt) | 27.3 | 25.7 | 30.7 | 29.9 | 32.6 | 33.4 | 29.92 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.98 | |
| D.O. Saturation (%) | 98.7 | 96.9 | 98.7 | 98.2 | 98.9 | 98.7 | 98.35 | - |
| D.O. (mg/L) | 7.1 | 7.0 | 7.0 | 7.0 | 6.9 | 6.82 | 6.94 | 6.85 |
| Turbidity (NTU) | 7.6 | 7.3 | 8.7 | 8.4 | 8.5 | 8.9 | 8.23 | - |
| SS (mg/L) | 8.0 | 8.0 | 8.33 | - | | | | |
| Remarks | | | [| Predging work | ks was obse | rved. | | |

| Station | | | MF | PB1 | | | | |
|------------------------|---------|---------|---------|--------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | 14:34 | -14:35 | | | | |
| Water Depth (m) | | | | | | | | |
| 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) | 24.5 | 24.4 | 24.1 | 24.1 | 24.2 | 24.2 | 24.24 | - |
| Salinity (ppt) | 26.3 | 26.5 | 29.2 | 29.1 | 31.6 | 31.5 | 29.03 | - |
| pH | 7.9 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.85 | |
| D.O. Saturation (%) | 94.3 | 94.1 | 93.4 | 93.1 | 94.1 | 93.7 | 93.78 | - |
| D.O. (mg/L) | 6.8 | 6.8 | 6.6 | 6.6 | 6.6 | 6.6 | 6.66 | 6.58 |
| Turbidity (NTU) | 6.9 | 7.1 | 9.3 | 9.3 | 11.6 | 11.4 | 9.27 | - |
| SS (mg/L) | 9.0 | 8.0 | 10.0 | 12.0 | 13.0 | 14.0 | 11.00 | - |
| Remarks | | - | | predging wor | ks was obse | rved. | | |

| Station | | | MF | PB2 | | |] | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|--|
| Time (hh:mm) | | | 14:45 | -14:46 | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | | | | | | averaged | | | | | |
| Water Temperature (°C) | 24.3 | 24.3 | 24.2 | 24.2 | 24.3 | 24.3 | 24.28 | - | | | | |
| Salinity (ppt) | 26.2 | 26.2 | 30.8 | 30.6 | 33.8 | 34.0 | 30.28 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.98 | | | | | |
| D.O. Saturation (%) | 97.5 | 98.0 | 98.2 | 97.8 | 98.1 | 98.6 | 98.03 | - | | | | |
| D.O. (mg/L) | 7.0 | 7.1 | 6.9 | 6.9 | 6.8 | 6.8 | 6.90 | 6.78 | | | | |
| Turbidity (NTU) | 9.7 | 9.5 | 11.1 | 11.3 | 13.5 | 13.7 | 11.47 | - | | | | |
| SS (mg/L) | 8.0 | 7.0 | 8.0 | 8.0 | 13.0 | 13.0 | 9.50 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | 1 | |
|------------------------|---------|---------|---------|--------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | 14:24 | -14:25 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.4 | 24.3 | - | - | 24.1 | 24.1 | 24.24 | - |
| Salinity (ppt) | 26.2 | 26.6 | - | - | 29.7 | 29.7 | 28.07 | - |
| pH | 7.8 | 7.8 | - | - | 7.8 | 7.8 | 7.83 | |
| D.O. Saturation (%) | 95.4 | 94.1 | - | - | 97.4 | 94.5 | 95.35 | - |
| D.O. (mg/L) | 6.9 | 6.8 | - | - | 6.9 | 6.7 | 6.81 | 6.81 |
| Turbidity (NTU) | 6.8 | 6.6 | - | - | 7.5 | 7.8 | 7.18 | - |
| SS (mg/L) | 10.0 | 8.0 | - | - | 10.0 | 11.0 | 9.75 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|--------|-------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | C2*1 | 30% | 6 IMO1 | | IMO2 | | | MPB1 | MPB2 | | N | IP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.7 | 6.7 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.7 | 6.7 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.1 | 9.1 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 16.5 | 16.5 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/16/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (| | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 10:16 | | | | | |
| Water Depth (m) | | | 16 | 5.0 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .0 | 15 | 5.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.6 | 24.50 | - |
| Salinity (ppt) | 34.7 | 34.9 | 35.8 | 35.5 | 36.2 | 36.1 | 35.54 | - |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.80 | |
| D.O. Saturation (%) | 100.0 | 99.7 | 98.9 | 96.9 | 99.8 | 96.2 | 98.58 | - |
| D.O. (mg/L) | 6.8 | 6.8 | 6.7 | 6.6 | 6.8 | 6.5 | 6.72 | 6.65 |
| Turbidity (NTU) | 4.2 | 4.6 | 7.2 | 6.9 | 14.6 | 14.9 | 8.73 | - |
| SS (mg/L) | 5.0 | 6.0 | 10.0 | 10.0 | 14.0 | 16.0 | 10.17 | - |
| Remarks | | | | | | | | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 9:57 | -9:58 | | | | |
| Water Depth (m) | | | 6 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.3 | 24.3 | 24.1 | 24.1 | 24.2 | 24.2 | 24.21 | - |
| Salinity (ppt) | 26.9 | 27.2 | 29.0 | 28.9 | 30.9 | 31.3 | 29.05 | - |
| pH | 8.0 | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 | 7.96 | |
| D.O. Saturation (%) | 102.2 | 100.9 | 103.2 | 105.0 | 107.4 | 107.5 | 104.37 | - |
| D.O. (mg/L) | 7.3 | 7.2 | 7.3 | 7.5 | 7.6 | 7.5 | 7.41 | 7.55 |
| Turbidity (NTU) | 7.8 | 7.6 | 8.3 | 8.1 | 8.9 | 8.8 | 8.25 | - |
| SS (mg/L) | 8.0 | 6.0 | 8.0 | 8.0 | 13.0 | 13.0 | 9.33 | - |
| Remarks | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | s | | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 10:47 | -10:49 | | | Northing | Easting | | |
| Water Depth (m) | | | 9 | | 22.21.243 | 113.53.964 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.6 | 24.5 | 24.1 | 24.1 | 24.4 | 24.2 | 24.30 | - | | |
| Salinity (ppt) | 25.6 | 26.1 | 29.2 | 29.2 | 34.4 | 30.5 | 29.18 | - | | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.8 | 7.82 | | | |
| D.O. Saturation (%) | 96.3 | 96.5 | 95.3 | 95.3 | 93.6 | 96.2 | 95.53 | - | | |
| D.O. (mg/L) | 6.9 | 6.9 | 6.8 | 6.8 | 6.4 | 6.8 | 6.77 | 6.61 | | |
| Turbidity (NTU) | 5.7 | 5.4 | 8.4 | 8.8 | 9.4 | 9.2 | 7.82 | - | | |
| SS (mg/L) | 9.0 | 8.0 | 12.0 | 12.0 | 11.0 | 9.0 | 10.17 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | es | | |
|-----------------------|---------|------------------------------|---------|-----------|------------|---------|----------------|---------|--|--|
| Time (hh:mm) | | | 10:35 | -10:36 | | | Northing | Easting | | |
| Water Depth (m) | | | 9 | 22.21.058 | 113.54.831 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 24.2 | 24.3 | 24.2 | 24.2 | 24.3 | 24.3 | 24.24 | - | | |
| Salinity (ppt) | 27.5 | 27.3 | 31.0 | 8.0 | 33.8 | 33.4 | 30.65 | - | | |
| pH | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.96 | | | |
| D.O. Saturation (%) | 98.6 | 99.9 | 99.8 | 98.9 | 99.1 | 99.6 | 99.32 | - | | |
| D.O. (mg/L) | 7.1 | 7.2 | 7.0 | 7.0 | 6.8 | 6.9 | 6.99 | 6.87 | | |
| Turbidity (NTU) | 7.6 | 7.4 | 12.7 | 12.4 | 14.8 | 14.2 | 11.52 | - | | |
| SS (mg/L) | 7.0 | 7.0 | 7.0 | 7.0 | 12.0 | 12.0 | 8.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| compliance with Action at | | ei | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1- | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.1 | 7.1 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.1 | 7.1 | Ν | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 11.0 | 11.0 | Ν | N | Ν | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 12.7 | 12.7 | N | Ν | N | N | N | N | N | N | Ν | N |

| Station | | | M | PB1 | | | | | | | |
|------------------------|--------------------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 11:07 | -11:08 | | | | | | | |
| Water Depth (m) | ater Depth (m) 9.0 | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.6 | 24.5 | 24.1 | 24.1 | 24.2 | 24.2 | 24.26 | - | | | |
| Salinity (ppt) | 25.7 | 26.2 | 29.0 | 29.0 | 31.2 | 30.8 | 28.64 | - | | | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.82 | | | | |
| D.O. Saturation (%) | 95.2 | 94.9 | 94.8 | 95.0 | 95.3 | 95.7 | 95.15 | - | | | |
| D.O. (mg/L) | 6.9 | 6.8 | 6.8 | 6.8 | 6.7 | 6.7 | 6.77 | 6.71 | | | |
| Turbidity (NTU) | 6.2 | 6.1 | 8.4 | 8.2 | 9.1 | 8.8 | 7.80 | - | | | |
| SS (mg/L) | 8.0 | 9.0 | 10.0 | 10.0 | 16.0 | 16.0 | 11.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB2 | | | | |
|------------------------|---------|---------|---------|----------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | | | | | | |
| 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) | 24.5 | 24.3 | 24.1 | 24.2 | 24.3 | 24.3 | 24.26 | - |
| Salinity (ppt) | 26.8 | 27.3 | 29.4 | 30.1 | 32.5 | 31.9 | 29.68 | - |
| рН | 8.0 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.97 | |
| D.O. Saturation (%) | 99.1 | 97.7 | 99.2 | 99.1 | 98.8 | 99.2 | 98.85 | - |
| D.O. (mg/L) | 7.1 | 7.0 | 7.1 | 7.0 | 6.9 | 6.9 | 6.99 | 6.90 |
| Turbidity (NTU) | 8.4 | 8.8 | 9.1 | 9.2 | 9.8 | 9.7 | 9.17 | - |
| SS (mg/L) | 6.0 | 7.0 | 7.0 | 8.0 | 15.0 | 14.0 | 9.50 | - |
| Remarks | | | | Dredging | g works was | observed. | | |

| Station | | | N | IP | | | | |
|------------------------|---------|---------|---------|-----------|---------|---------|----------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 5 | .3 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .7 | 4 | .3 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.4 | 24.3 | - | - | 24.2 | 24.1 | 24.24 | - |
| Salinity (ppt) | 26.4 | 26.6 | - | - | 29.0 | 29.2 | 27.80 | - |
| pН | 7.8 | 7.8 | - | - | 7.8 | 7.8 | 7.83 | |
| D.O. Saturation (%) | 94.7 | 95.3 | - | - | 96.8 | 95.1 | 95.48 | - |
| D.O. (mg/L) | 6.8 | 6.9 | - | - | 6.9 | 6.8 | 6.83 | 6.83 |
| Turbidity (NTU) | 5.7 | 5.9 | - | - | 6.8 | 6.5 | 6.23 | - |
| SS (mg/L) | 7.0 | 9.0 | - | - | 10.0 | 10.0 | 9.00 | - |
| Remarks | | | | observed. | | | | |

| Sampling Date | 11/17/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C2 (| NM5) | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | | | | | | | | | |
| Water Depth (m) | | | 20 | 0.6 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.3 | 19 | 9.6 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.3 | 24.3 | 24.5 | 24.6 | 24.5 | 24.6 | 24.46 | - | | | |
| Salinity (ppt) | 24.6 | 24.7 | 31.8 | 31.7 | 34.3 | 33.9 | 30.16 | - | | | |
| pH | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.95 | | | | |
| D.O. Saturation (%) | 94.3 | 94.7 | 92.3 | 94.7 | 94.0 | 96.1 | 94.35 | - | | | |
| D.O. (mg/L) | 6.9 | 6.9 | 6.4 | 6.6 | 6.4 | 6.6 | 6.63 | 6.52 | | | |
| Turbidity (NTU) | 7.4 | 7.6 | 8.5 | 8.0 | 11.4 | 11.4 | 9.05 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 7.0 | 11.0 | 11.0 | 8.83 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | | Co-ord | linates | | | |
|------------------------|---------|---------|----------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | Northing | Easting | | | | |
| Water Depth (m) | | | 8 | .5 | | | 22.21.420 | 113.53.617 |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .5 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.5 | 24.6 | 24.3 | 24.3 | 24.4 | 24.4 | 24.41 | - |
| Salinity (ppt) | 25.4 | 22.4 | 26.3 | 26.8 | 28.3 | 28.8 | 26.32 | - |
| pН | 7.9 | 7.9 | 7.9 | 7.9 | 8.0 | 7.9 | 7.92 | |
| D.O. Saturation (%) | 91.3 | 91.3 | 92.3 | 92.3 | 94.6 | 93.2 | 92.50 | - |
| D.O. (mg/L) | 6.6 | 6.7 | 6.7 | 6.6 | 6.7 | 6.61 | 6.65 | 6.67 |
| Turbidity (NTU) | 10.3 | 10.6 | 11.2 | 11.2 | 11.6 | 11.3 | 11.03 | - |
| SS (mg/L) | 8.0 | 6.0 | 9.50 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | dinates |
|------------------------|---------|---------|----------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | Northing | Easting | | | | |
| Water Depth (m) | | | 8 | .2 | | | 22.20.794 | 113.53.816 |
| Monitoring Depth (m) | 1 | .0 | 4 | .1 | 7 | .2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.6 | 24.5 | 24.3 | 24.3 | 24.2 | 24.2 | 24.35 | - |
| Salinity (ppt) | 23.0 | 23.7 | 26.4 | 26.3 | 28.0 | 28.0 | 25.90 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.91 | |
| D.O. Saturation (%) | 92.0 | 92.3 | 92.6 | 92.8 | 94.2 | 92.7 | 92.77 | - |
| D.O. (mg/L) | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.63 | 6.69 | 6.68 |
| Turbidity (NTU) | 8.6 | 8.9 | 12.6 | 12.7 | 16.3 | 16.0 | 12.52 | - |
| SS (mg/L) | 9.0 | 7.0 | 8.33 | - | | | | |
| Remarks | | | 0 | redging worl | ks was obse | rved. | | |

| Station | | | M | PB1 | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 14:15 | i-14:17 | | | | | | | |
| Water Depth (m) | | | 8 | 3.5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .5 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 24.5 | 24.5 | 24.3 | 24.3 | 24.4 | 24.3 | 24.36 | - | | | |
| Salinity (ppt) | 23.8 | 24.2 | 26.6 | 26.9 | 29.5 | 30.5 | 26.91 | - | | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.91 | | | | |
| D.O. Saturation (%) | 89.9 | 90.4 | 89.4 | 90.2 | 90.0 | 91.6 | 90.25 | - | | | |
| D.O. (mg/L) | 6.6 | 6.6 | 6.4 | 6.5 | 6.4 | 6.4 | 6.47 | 6.40 | | | |
| Turbidity (NTU) | 9.8 | 9.7 | 10.0 | 9.9 | 10.2 | 10.4 | 10.00 | - | | | |
| SS (mg/L) | 5.0 | 5.0 | 10.0 | 11.0 | 9.0 | 8.0 | 8.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MP | 'B2 | | | 1 | |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | | | | | | |
| 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- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.4 | 24.6 | 24.2 | 24.2 | 24.3 | 24.2 | 24.32 | - |
| Salinity (ppt) | 24.0 | 23.5 | 26.5 | 26.6 | 27.8 | 28.0 | 26.05 | - |
| рН | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 8.0 | 7.92 | |
| D.O. Saturation (%) | 95.5 | 93.6 | 97.8 | 94.7 | 95.2 | 100.5 | 96.22 | - |
| D.O. (mg/L) | 7.0 | 6.8 | 7.1 | 6.8 | 6.8 | 7.2 | 6.94 | 7.00 |
| Turbidity (NTU) | 10.8 | 10.3 | 14.3 | 14.5 | 15.6 | 15.1 | 13.43 | - |
| SS (mg/L) | 6.0 | 6.0 | 8.50 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | |
|------------------------|---------|---------|---------|-------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 4 | .8 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .4 | 3 | .8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.6 | 24.7 | - | - | 24.3 | 24.4 | 24.50 | - |
| Salinity (ppt) | 23.5 | 23.5 | - | - | 26.6 | 26.4 | 25.00 | - |
| pH | 7.9 | 7.9 | - | - | 7.9 | 7.9 | 7.91 | |
| D.O. Saturation (%) | 91.2 | 91.2 | - | - | 92.5 | 92.0 | 91.73 | - |
| D.O. (mg/L) | 6.6 | 6.6 | - | - | 6.7 | 6.6 | 6.64 | 6.64 |
| Turbidity (NTU) | 8.5 | 8.5 | - | - | 9.2 | 9.5 | 8.93 | - |
| SS (mg/L) | 7.0 | 6.0 | - | - | 10.0 | 12.0 | 8.75 | - |
| Remarks | | | D | redging wor | ks was obse | rved. | | |

| Parameter | As in | EM&A | C2*1 | 30% | IMO1 | | IM | 02 | | MPB1 | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|------|---|----------------------------------|----|---|------|------|----------------------------------|----|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action Level | | Exceedanc Exceedance of Limit Level E e of Action Level | | | Exceedan ce of Limit Level | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 11.8 | 11.8 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.5 | 11.5 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/17/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (| NM3) | | | | |
|------------------------|---------|---------|---------|--------------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 10:46 | -10:48 | | | | |
| Water Depth (m) | | | 20 |).4 | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).2 | 19 | 9.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.61 | - |
| Salinity (ppt) | 32.2 | 32.2 | 33.5 | 33.7 | 34.6 | 34.7 | 33.48 | - |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.79 | |
| D.O. Saturation (%) | 95.3 | 96.5 | 92.0 | 91.0 | 93.4 | 91.7 | 93.32 | - |
| D.O. (mg/L) | 6.6 | 6.7 | 6.3 | 6.3 | 6.4 | 6.3 | 6.42 | 6.32 |
| Turbidity (NTU) | 9.1 | 8.9 | 24.3 | 25.0 | 28.4 | 28.7 | 20.73 | - |
| SS (mg/L) | 8.0 | 8.0 | 11.0 | 13.0 | 15.0 | 16.0 | 11.83 | - |
| Remarks | | | | as observed. | | | | |

| Station | | | C3 (I | NM6) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 11:45 | -11:47 | | | | |
| Water Depth (m) | | | 8 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.3 | 24.4 | 24.3 | 24.3 | 24.3 | 24.3 | 24.30 | - |
| Salinity (ppt) | 25.2 | 24.9 | 25.9 | 26.2 | 31.2 | 31.1 | 27.41 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 8.0 | 8.0 | 7.93 | |
| D.O. Saturation (%) | 95.0 | 96.1 | 95.6 | 97.0 | 95.7 | 98.1 | 96.25 | - |
| D.O. (mg/L) | 6.9 | 7.0 | 6.9 | 7.0 | 6.7 | 6.9 | 6.89 | 6.80 |
| Turbidity (NTU) | 9.0 | 9.2 | 12.9 | 12.3 | 16.8 | 17.0 | 12.87 | - |
| SS (mg/L) | 8.0 | 8.0 | 9.0 | 8.0 | 13.0 | 14.0 | 10.00 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|------------------------|-----------------------------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 11:15 | -11:17 | | | Northing | Easting | | |
| Water Depth (m) | | | 8 | | 22.21.409 | 113.54.695 | | | | |
| Monitoring Depth (m) | 1 | 1.0 4.2 7.4 | | | | .4 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.2 | 24.3 | 24.3 | 24.3 | 24.4 | 24.4 | 24.30 | - | | |
| Salinity (ppt) | 25.7 | 25.7 | 27.4 | 27.9 | 31.4 | 31.1 | 28.20 | - | | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.8 | 7.83 | | | |
| D.O. Saturation (%) | 89.4 | 90.0 | 90.1 | 88.2 | 90.1 | 88.7 | 89.42 | - | | |
| D.O. (mg/L) | 6.5 | 6.5 | 6.5 | 6.3 | 6.3 | 6.2 | 6.37 | 6.26 | | |
| Turbidity (NTU) | 10.9 | 10.9 | 11.5 | 12.0 | 16.4 | 16.7 | 13.07 | - | | |
| SS (mg/L) | 7.0 8.0 10.0 12.0 10.0 10.0 | | | | | | 9.50 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 11:29 | -11:30 | | | Northing | Easting | |
| Water Depth (m) | | | 9 | | 22.20.878 | 113.53.806 | | | |
| Monitoring Depth (m) | 1 | 1.0 4.5 8.0 | | | | .0 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 24.5 | 24.5 | 24.2 | 24.3 | 24.3 | 24.3 | 24.34 | - | |
| Salinity (ppt) | 23.4 | 23.5 | 25.1 | 24.8 | 27.7 | 27.7 | 25.36 | - | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.86 | | |
| D.O. Saturation (%) | 90.8 | 90.5 | 89.4 | 91.0 | 90.2 | 92.3 | 90.70 | - | |
| D.O. (mg/L) | 6.6 | 6.6 | 6.5 | 6.6 | 6.5 | 6.6 | 6.56 | 6.53 | |
| Turbidity (NTU) | 9.6 | 10.0 | 15.5 | 15.9 | 18.5 | 18.7 | 14.70 | - | |
| SS (mg/L) | 6.0 | 7.0 | 10.0 | 10.0 | 11.0 | 11.0 | 9.17 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

Station MPB1 Time (hh:mm) 11:22-11:24 Water Depth (m) 8.3 Monitoring Depth (m) 1.0 4.2 7.3 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 24.3 24.3 24.3 24.3 24.4 24.4 24.30 Salinity (ppt) 25.8 25.6 27.9 27.9 31.4 31.2 28.30 -7.8 7.8 7.8 7.9 7.9 7.9 pН 7.84 D.O. Saturation (%) 89.4 89.3 88.5 89.0 90.2 89.2 89.27 D.O. (mg/L) 6.5 6.5 6.3 6.4 6.3 6.2 6.36 6.28 12.2 11.8 16.3 16.2 17.6 17.2 15.22 Turbidity (NTU) SS (mg/L) 6.0 5.0 11.0 11.0 9.0 10.0 8.67 Remarks Dredging works was observed.

| Station | | | MF | PB2 | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 11:36 | -11:37 | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.6 | 24.5 | 24.2 | 24.2 | 24.3 | 24.3 | 24.35 | - | | |
| Salinity (ppt) | 23.9 | 23.6 | 25.8 | 26.3 | 27.8 | 27.7 | 25.84 | - | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.87 | | | |
| D.O. Saturation (%) | 90.0 | 89.9 | 89.4 | 89.2 | 90.1 | 89.9 | 89.75 | - | | |
| D.O. (mg/L) | 6.5 | 6.6 | 6.5 | 6.4 | 6.4 | 6.4 | 6.48 | 6.44 | | |
| Turbidity (NTU) | 9.1 | 8.7 | 16.0 | 16.1 | 16.9 | 16.6 | 13.90 | - | | |
| SS (mg/L) | 6.0 | 7.0 | 10.0 | 10.0 | 10.0 | 9.0 | 8.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | N | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 11:09 | -11:09 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.2 | 24.3 | - | - | 24.2 | 24.3 | 24.26 | - | | |
| Salinity (ppt) | 26.5 | 25.2 | - | - | 26.5 | 25.0 | 25.79 | - | | |
| pH | 7.8 | 7.8 | - | - | 7.8 | 7.8 | 7.83 | | | |
| D.O. Saturation (%) | 93.3 | 91.0 | - | - | 90.9 | 89.9 | 91.28 | - | | |
| D.O. (mg/L) | 6.7 | 6.6 | - | - | 6.6 | 6.5 | 6.60 | 6.54 | | |
| Turbidity (NTU) | 25.6 | 21.4 | - | - | 25.5 | 21.6 | 23.53 | - | | |
| SS (mg/L) | 10.0 | 11.0 | - | - | 31.0 | 33.0 | 21.25 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| compliance with Action at | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 01 | IMO2 | | | MPB1 | MF | MPB2 MP | | iP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.7 | 6.7 | Ν | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 21.8 | 21.8 | N | Ň | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 14.2 | 14.2 | N | N | N | N | N | N | N | Ν | N | N |

| Sampling Date | 11/18/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 31C |

| Station | | | |] | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 18 | 3.4 | | | | |
| Monitoring Depth (m) | 1 | .0 | ç | .2 | 1 | 7.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (℃) | 29.2 | 29.4 | 28.2 | 28.3 | 27.1 | 27.2 | 28.24 | - |
| Salinity (ppt) | 25.1 | 24.9 | 28.4 | 28.3 | 31.2 | 31.2 | 28.17 | - |
| pН | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.76 | |
| D.O. Saturation (%) | 94.6 | 93.9 | 79.4 | 79.2 | 76.5 | 75.9 | 83.25 | - |
| D.O. (mg/L) | 6.3 | 6.2 | 5.2 | 5.2 | 5.0 | 5.0 | 5.51 | 5.03 |
| Turbidity (NTU) | 5.6 | 5.7 | 6.1 | 6.7 | 10.4 | 9.0 | 7.25 | - |
| SS (mg/L) | 6.0 | 6.0 | 8.0 | 7.0 | 5.0 | 6.0 | 6.33 | - |
| Remarks | Dredging works was observed. | | | | | | | |

| Station | | | | Co-ordinates | | | | |
|------------------------|---------|---------|---------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 17 | 7.0 | | | 22.21.173 | 113.53.402 |
| Monitoring Depth (m) | 1 | .0 | 8 | .5 | 10 | 5.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 29.5 | 29.4 | 28.4 | 28.4 | 27.4 | 27.4 | 28.43 | - |
| Salinity (ppt) | 22.3 | 22.8 | 27.4 | 27.2 | 30.2 | 30.6 | 26.75 | - |
| рН | 7.7 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.75 | |
| D.O. Saturation (%) | 93.2 | 91.4 | 76.4 | 75.3 | 71.0 | 72.9 | 80.03 | - |
| D.O. (mg/L) | 6.3 | 6.1 | 5.1 | 5.0 | 4.7 | 4.80 | 5.32 | 4.74 |
| Turbidity (NTU) | 7.4 | 7.5 | 7.9 | 7.8 | 9.2 | 9.5 | 8.22 | - |
| SS (mg/L) | 7.0 | 6.0 | 6.0 | 5.0 | 4.0 | 5.0 | 5.50 | - |
| Remarks | | - | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | linates | |
|------------------------|---------|------------------------------|---------|----------|---------|---------|--------------------|------------|--|
| Time (hh:mm) | | | | Northing | Easting | | | | |
| Water Depth (m) | | | 12 | 2.2 | | | 22.21.123 | 113.53.929 | |
| Monitoring Depth (m) | 1 | .0 | 6 | .1 | 1 | 1.2 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (°C) | 29.7 | 29.7 | 28.9 | 28.8 | 27.6 | 27.7 | 28.72 | - | |
| Salinity (ppt) | 22.5 | 22.9 | 26.2 | 26.5 | 30.7 | 29.8 | 26.44 | - | |
| pH | 7.8 | 7.8 | 7.7 | 7.7 | 7.7 | 7.7 | 7.75 | | |
| D.O. Saturation (%) | 97.2 | 96.4 | 82.9 | 83.2 | 76.8 | 76.6 | 85.52 | - | |
| D.O. (mg/L) | 6.6 | 6.4 | 5.5 | 5.5 | 5.1 | 5.06 | 5.69 | 5.06 | |
| Turbidity (NTU) | 6.8 | 6.7 | 7.3 | 7.3 | 8.8 | 8.4 | 7.55 | - | |
| SS (mg/L) | 6.0 | 5.0 | 6.0 | 5.83 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | M | PB1 | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | 15:29 | -15:31 | | | 1 | |
| Water Depth (m) | | | 8 | 3.2 | | | | |
| 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 (℃) | 30.3 | 30.2 | 28.7 | 28.6 | 28.5 | 28.6 | 29.14 | - |
| Salinity (ppt) | 18.1 | 17.5 | 26.2 | 26.4 | 27.2 | 26.8 | 23.70 | - |
| pH | 7.8 | 7.8 | 7.7 | 7.7 | 7.7 | 7.7 | 7.75 | |
| D.O. Saturation (%) | 99.8 | 96.0 | 79.5 | 79.1 | 82.4 | 83.7 | 86.75 | - |
| D.O. (mg/L) | 6.8 | 6.5 | 5.3 | 5.2 | 5.5 | 5.6 | 5.80 | 5.51 |
| Turbidity (NTU) | 6.2 | 6.5 | 6.5 | 6.5 | 6.9 | 7.1 | 6.62 | - |
| SS (mg/L) | 6.0 | 6.0 | 5.0 | 6.0 | 6.0 | 6.0 | 5.83 | - |
| Remarks | | Dredging works was observed. | | | | | | |

| Station | | | MP | PB2 | | |] | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| 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- | Bottom | |
| | | | | | | | averaged | | |
| Water Temperature (°C) | 30.3 | 30.4 | 29.7 | 29.8 | 29.1 | 28.8 | 29.68 | - | |
| Salinity (ppt) | 18.0 | 18.1 | 21.1 | 20.4 | 22.5 | 26.1 | 21.04 | - | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.7 | 7.7 | 7.75 | | |
| D.O. Saturation (%) | 109.3 | 109.6 | 90.6 | 87.2 | 82.3 | 85.3 | 94.05 | - | |
| D.O. (mg/L) | 7.4 | 7.4 | 6.1 | 5.9 | 5.5 | 5.7 | 6.33 | 5.59 | |
| Turbidity (NTU) | 7.1 | 6.9 | 9.1 | 8.8 | 10.2 | 10.1 | 8.70 | - | |
| SS (mg/L) | 6.0 | 6.0 | 6.0 | 6.0 | 7.0 | 6.0 | 6.17 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | N | IP | | | 1 | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | 15:38 | | | | | | |
| 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) | 29.5 | 29.6 | - | - | 28.7 | 28.7 | 29.10 | - | |
| Salinity (ppt) | 21.8 | 21.3 | - | - | 26.4 | 26.4 | 23.98 | - | |
| pH | 7.7 | 7.7 | - | - | 7.6 | 7.6 | 7.66 | | |
| D.O. Saturation (%) | 91.6 | 93.6 | - | - | 82.7 | 76.6 | 86.13 | - | |
| D.O. (mg/L) | 6.2 | 6.3 | - | - | 5.5 | 5.1 | 5.76 | 5.28 | |
| Turbidity (NTU) | 7.8 | 7.6 | 8.60 | - | | | | | |
| SS (mg/L) | 5.0 | 4.0 | - | - | 7.0 | 7.0 | 5.75 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|--------|-------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|-----------|-------------|
| Parameter | As in | EM&A | C2*1 | 30% | IM | 01 | IMO2 | | MPB1 | MPB2 | | N | IP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.0 | 5.0 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.5 | 5.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.4 | 9.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 8.2 | 8.2 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | | 11/18/2008 |
|---------------|-------------------|------------|
| Weather & Am | bient Temperature | Sunny, 31C |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 13:19 | -13:22 | | | | | | | |
| Water Depth (m) | | | 16 | 6.4 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 29.4 | 29.4 | 28.1 | 28.5 | 27.2 | 27.1 | 28.26 | - | | | |
| Salinity (ppt) | 24.5 | 24.2 | 28.9 | 27.9 | 31.1 | 31.2 | 27.96 | - | | | |
| рН | 7.7 | 7.8 | 7.8 | 7.8 | 7.6 | 7.8 | 7.74 | | | | |
| D.O. Saturation (%) | 95.2 | 94.6 | 78.6 | 79.8 | 77.4 | 76.3 | 83.65 | - | | | |
| D.O. (mg/L) | 6.3 | 6.3 | 5.2 | 5.3 | 5.1 | 5.0 | 5.54 | 5.08 | | | |
| Turbidity (NTU) | 5.6 | 5.7 | 6.3 | 6.4 | 8.6 | 8.9 | 6.92 | - | | | |
| SS (mg/L) | 5.0 | 4.0 | 5.0 | 6.0 | 5.0 | 6.0 | 5.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (| NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 12:02 | -12:04 | | | | | | | |
| Water Depth (m) | | | 7 | | | | | | | | |
| 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) | 30.2 | 30.2 | 29.7 | 29.8 | 28.6 | 29.4 | 29.66 | - | | | |
| Salinity (ppt) | 19.3 | 19.7 | 22.4 | 21.9 | 27.9 | 25.2 | 22.74 | - | | | |
| pН | 7.8 | 7.8 | 7.8 | 7.8 | 7.7 | 7.7 | 7.75 | | | | |
| D.O. Saturation (%) | 112.3 | 113.4 | 96.6 | 96.6 | 88.6 | 92.7 | 100.03 | - | | | |
| D.O. (mg/L) | 7.6 | 7.7 | 6.5 | 6.5 | 5.9 | 6.1 | 6.70 | 6.00 | | | |
| Turbidity (NTU) | 5.5 | 5.6 | 6.3 | 6.1 | 7.6 | 7.5 | 6.43 | - | | | |
| SS (mg/L) | 5.0 | 5.0 | 5.0 | 6.0 | 5.50 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|-----------------------|-------------------------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 12:55 | -12:59 | | | Northing | Easting | | |
| Water Depth (m) | | | 16 | | 22.21.185 | 113.53.395 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .3 | 15 | 5.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 29.5 | 29.4 | 28.6 | 28.5 | 27.4 | 27.4 | 28.46 | - | | |
| Salinity (ppt) | 22.9 | 22.8 | 27.1 | 27.4 | 30.3 | 30.3 | 26.80 | - | | |
| pH | 7.8 | 7.8 | 7.8 | 7.7 | 7.7 | 7.8 | 7.74 | | | |
| D.O. Saturation (%) | 93.0 | 92.8 | 77.8 | 77.4 | 76.1 | 73.8 | 81.82 | - | | |
| D.O. (mg/L) | 6.2 | 6.2 | 5.1 | 5.1 | 5.0 | 4.9 | 5.43 | 4.95 | | |
| Turbidity (NTU) | 7.0 | 7.0 | 7.7 | 7.6 | 10.6 | 10.6 | 8.42 | - | | |
| SS (mg/L) | 5.0 5.0 6.0 6.0 8.0 7.0 | | | | | 7.0 | 6.17 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | |
|-----------------------|---------|------------------------------|---------|-----------|------------|---------|----------------|---------|--|--|
| Time (hh:mm) | | | 13:07 | -13:09 | | | Northing | Easting | | |
| Water Depth (m) | | | 11 | 22.21.119 | 113.53.920 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .6 | 10 |).2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 29.8 | 29.8 | 28.7 | 28.8 | 27.7 | 27.6 | 28.72 | - | | |
| Salinity (ppt) | 23.3 | 22.5 | 26.7 | 26.2 | 30.7 | 30.7 | 26.68 | - | | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.78 | | | |
| D.O. Saturation (%) | 97.0 | 98.2 | 80.0 | 80.5 | 73.8 | 75.1 | 84.10 | - | | |
| D.O. (mg/L) | 6.5 | 6.6 | 5.3 | 5.3 | 4.9 | 4.9 | 5.58 | 4.89 | | |
| Turbidity (NTU) | 6.8 | 7.0 | 7.7 | 7.8 | 9.7 | 9.5 | 8.08 | - | | |
| SS (mg/L) | 7.0 | 6.0 | 5.0 | 5.0 | 6.0 | 7.0 | 6.00 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 12:28 | | | | | | | | |
| 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) | 30.1 | 30.1 | 28.7 | 28.6 | 28.4 | 28.4 | 29.02 | - | | | |
| Salinity (ppt) | 17.9 | 17.8 | 26.4 | 26.4 | 27.4 | 27.5 | 23.91 | - | | | |
| pН | 7.8 | 7.8 | 7.7 | 7.7 | 7.7 | 7.7 | 7.75 | | | | |
| D.O. Saturation (%) | 98.5 | 96.4 | 77.6 | 78.9 | 82.4 | 80.9 | 85.78 | - | | | |
| D.O. (mg/L) | 6.7 | 6.6 | 5.1 | 5.75 | 5.41 | | | | | | |
| Turbidity (NTU) | 6.6 | 6.7 | 6.9 | 7.08 | - | | | | | | |
| SS (mg/L) | 6.0 | 6.0 | 8.0 | 6.67 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB2 | | | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 12:19 | | | | | | |
| Water Depth (m) | | | 9 | .8 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .9 | 8 | .8 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 30.2 | 30.4 | 29.9 | 29.7 | 28.7 | 28.7 | 29.58 | - | |
| Salinity (ppt) | 17.2 | 17.5 | 20.3 | 21.9 | 26.2 | 26.5 | 21.58 | - | |
| pH | 7.8 | 7.8 | 7.8 | 7.8 | 7.7 | 7.7 | 7.78 | | |
| D.O. Saturation (%) | 104.7 | 105.6 | 92.4 | 91.3 | 84.3 | 84.1 | 93.73 | - | |
| D.O. (mg/L) | 7.1 | 7.2 | 6.2 | 6.1 | 5.6 | 5.6 | 6.31 | 5.59 | |
| Turbidity (NTU) | 6.5 | 6.6 | 8.9 | 8.7 | 10.8 | 10.7 | 8.70 | - | |
| SS (mg/L) | 5.0 | 6.0 | 5.0 | 7.0 | 7.0 | 7.0 | 6.17 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Station | | | Ν | IP | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 12:38 | -12:39 | | | | | | |
| 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) | 29.4 | 29.6 | - | - | 28.6 | 28.6 | 29.05 | - | | |
| Salinity (ppt) | 21.5 | 21.0 | - | - | 26.6 | 26.7 | 23.95 | - | | |
| pH | 7.7 | 7.7 | - | - | 7.7 | 7.7 | 7.69 | | | |
| D.O. Saturation (%) | 89.8 | 90.0 | - | - | 80.4 | 78.1 | 84.58 | - | | |
| D.O. (mg/L) | 6.1 | 6.1 | - | - | 5.3 | 5.2 | 5.65 | 5.25 | | |
| Turbidity (NTU) | 8.1 | 7.9 | - | - | 10.2 | 10.1 | 9.08 | - | | |
| SS (mg/L) | 6.0 | 6.0 | - | - | 4.0 | 5.0 | 5.25 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| compliance with Action al | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1- | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MPB2 | | M | iP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.5 | 5.5 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.7 | 8.7 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 6.9 | 6.9 | N | Ν | N | N | N | N | Ν | N | N | N |

| Sampling Date | 11/19/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Fine, 25C |

| Station | | | C2 (| NM5) | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 17:47 | -17:48 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).1 | 19 | 9.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.8 | 24.0 | 24.4 | 24.5 | 24.5 | 24.5 | 24.30 | - | | |
| Salinity (ppt) | 31.8 | 31.7 | 34.6 | 36.0 | 36.2 | 36.1 | 34.41 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.12 | | | |
| D.O. Saturation (%) | 96.5 | 96.0 | 95.4 | 93.5 | 99.2 | 94.3 | 95.82 | - | | |
| D.O. (mg/L) | 6.8 | 6.7 | 6.5 | 6.4 | 6.7 | 6.4 | 6.59 | 6.57 | | |
| Turbidity (NTU) | 7.6 | 7.1 | 7.6 | 7.7 | 8.4 | 8.2 | 7.77 | - | | |
| SS (mg/L) | 5.0 | 6.0 | 4.0 | 5.0 | 7.0 | 5.0 | 5.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | linates |
|------------------------|---------|---------|---------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 18 | 3.4 | | | 22.21.850 | 113.54.907 |
| Monitoring Depth (m) | 1 | .0 | 9 | .2 | 17 | 7.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.9 | 23.9 | 24.4 | 24.5 | 24.5 | 24.5 | 24.28 | - |
| Salinity (ppt) | 31.7 | 31.8 | 34.4 | 34.4 | 36.2 | 36.3 | 34.12 | - |
| рН | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.14 | |
| D.O. Saturation (%) | 96.9 | 98.0 | 95.1 | 95.6 | 99.0 | 98.7 | 97.22 | - |
| D.O. (mg/L) | 6.8 | 6.9 | 6.5 | 6.6 | 6.7 | 6.70 | 6.70 | 6.71 |
| Turbidity (NTU) | 7.5 | 7.7 | 7.9 | 7.3 | 8.4 | 8.8 | 7.93 | - |
| SS (mg/L) | 7.0 | 8.0 | 4.0 | 5.0 | 6.0 | 7.0 | 6.17 | - |
| Remarks | | - | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ore | dinates | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|-----------|------------|--|--|--|
| Time (hh:mm) | | | 18:32 | -18:34 | | | Northing | Easting | | | |
| Water Depth (m) | | | 19 | 9.6 | | | 22.21.577 | 113.55.544 | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .8 | 18 | B.6 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 24.0 | 24.1 | 24.5 | 24.5 | 24.5 | 24.5 | 24.35 | - | | | |
| Salinity (ppt) | 32.7 | 32.7 | 36.3 | 36.1 | 36.3 | 36.1 | 35.02 | - | | | |
| pH | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.12 | | | | |
| D.O. Saturation (%) | 95.7 | 95.6 | 94.3 | 96.3 | 96.7 | 101.8 | 96.73 | - | | | |
| D.O. (mg/L) | 6.7 | 6.7 | 6.4 | 6.5 | 6.6 | 6.92 | 6.63 | 6.74 | | | |
| Turbidity (NTU) | 7.3 | 7.2 | 8.7 | 8.2 | 9.1 | 9.2 | 8.28 | - | | | |
| SS (mg/L) | 5.0 | 6.0 | 5.83 | - | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | M | PB1 | | | | | | | | | | |
|-----------------------|---------|---------|---------|--------------|-------------|------------------------------|--------------------|--------|--|--|--|--|--|--|
| Time (hh:mm) | | | | 1 | | | | | | | | | | |
| Water Depth (m) | | | ç | 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 (℃) | 24.1 | 24.0 | 24.2 | 24.2 | 24.2 | 24.2 | 24.13 | - | | | | | | |
| Salinity (ppt) | 30.9 | 31.1 | 32.0 | 31.9 | 32.0 | 32.3 | 31.69 | - | | | | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.0 | 8.1 | 8.06 | | | | | | | |
| D.O. Saturation (%) | 94.3 | 94.2 | 93.7 | 95.3 | 104.3 | 96.1 | 96.32 | - | | | | | | |
| D.O. (mg/L) | 6.6 | 6.6 | 6.6 | 6.7 | 7.3 | 6.7 | 6.75 | 7.00 | | | | | | |
| Turbidity (NTU) | 7.4 | 7.6 | 8.1 | 8.2 | 9.3 | 9.2 | 8.30 | - | | | | | | |
| SS (mg/L) | 7.0 | 7.0 | 6.0 | 4.0 | 6.0 | 4.0 | 5.67 | - | | | | | | |
| Remarks | | | | Dredging wor | ks was obse | Dredging works was observed. | | | | | | | | |

| Station | | | MP | B2 | | |] | |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | 17:12 | -17:13 | | | | |
| Water Depth (m) | | | 9 | .1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .6 | 8 | .1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.9 | 23.9 | 24.0 | 24.0 | 24.1 | 24.1 | 24.01 | - |
| Salinity (ppt) | 31.0 | 31.0 | 31.2 | 31.2 | 32.6 | 33.3 | 31.70 | - |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.09 | |
| D.O. Saturation (%) | 101.4 | 103.2 | 104.3 | 100.9 | 102.4 | 107.2 | 103.23 | - |
| D.O. (mg/L) | 7.2 | 7.3 | 7.3 | 7.1 | 7.1 | 7.4 | 7.25 | 7.29 |
| Turbidity (NTU) | 6.6 | 6.8 | 8.7 | 8.6 | 9.2 | 9.5 | 8.23 | - |
| SS (mg/L) | 7.0 | 6.0 | 5.0 | 7.0 | 8.0 | 9.0 | 7.00 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | |
|------------------------|---------|---------|---------|--------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 5 | .7 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | |
| 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 | 23.89 | - |
| Salinity (ppt) | 30.8 | 30.8 | - | - | 31.0 | 31.0 | 30.88 | - |
| pH | 8.1 | 8.1 | - | - | 8.1 | 8.1 | 8.08 | |
| D.O. Saturation (%) | 99.3 | 99.6 | - | - | 99.9 | 99.7 | 99.63 | - |
| D.O. (mg/L) | 7.0 | 7.1 | - | - | 7.1 | 7.0 | 7.04 | 7.05 |
| Turbidity (NTU) | 5.6 | 5.4 | - | - | 5.3 | 5.7 | 5.50 | - |
| SS (mg/L) | 5.0 | 4.0 | - | - | 5.0 | 4.0 | 4.50 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Parameter | As in | EM&A | C2*1 | C2*130% IMO1 | | 01 | IM | 02 | MPB1 | | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|---|----|----------------------------------|----|-----------------------------------|---------------------------|------|----------------------------------|----|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action Level | | Exceedanc e of Action Level | Exceedance of Limit Level | | Exceedan ce of Limit Level | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | Ν |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 10.1 | 10.1 | N | N | N | N | N | N | N | N | Ν | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 6.9 | 6.9 | N | N | N | N | N | N | N | N | N | N |

| Station | | | C1 (| NM3) | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 12:48 | | | | | | | |
| Water Depth (m) | | | 16 | 5.0 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .0 | 15 | 5.0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.2 | 24.2 | 24.3 | 24.3 | 24.3 | 24.5 | 24.30 | - | | |
| Salinity (ppt) | 33.5 | 33.2 | 35.0 | 34.4 | 34.7 | 35.7 | 34.41 | - | | |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.07 | | | |
| D.O. Saturation (%) | 102.1 | 104.5 | 98.9 | 100.6 | 103.4 | 101.3 | 101.80 | - | | |
| D.O. (mg/L) | 7.1 | 7.3 | 6.8 | 6.9 | 7.1 | 6.9 | 7.00 | 7.00 | | |
| Turbidity (NTU) | 2.0 | 1.8 | 2.0 | 1.8 | 2.8 | 2.8 | 2.20 | - | | |
| SS (mg/L) | 4.0 | 4.0 | 4.0 | 6.0 | 5.0 | 5.0 | 4.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 14:05 | | | | | | | |
| Water Depth (m) | | | 7 | .3 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .7 | 6 | .3 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 24.0 | 24.0 | 24.1 | 24.0 | 24.0 | 24.1 | 24.04 | - | | |
| Salinity (ppt) | 32.2 | 32.5 | 33.5 | 33.4 | 34.7 | 34.6 | 33.48 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.09 | | | |
| D.O. Saturation (%) | 98.2 | 98.1 | 100.6 | 97.6 | 99.7 | 105.4 | 99.93 | - | | |
| D.O. (mg/L) | 6.9 | 6.9 | 7.0 | 6.8 | 6.9 | 7.3 | 6.94 | 7.07 | | |
| Turbidity (NTU) | 5.2 | 5.7 | 7.5 | 7.3 | 8.1 | 8.6 | 7.07 | - | | |
| SS (mg/L) | 4.0 | 4.0 | 3.0 | 3.0 | 6.0 | 5.0 | 4.17 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|------------|--|--|
| Time (hh:mm) | | | 13:11 | -13:13 | | | Northing | Easting | | |
| Water Depth (m) | | | 18 | 3.4 | | | 22.21.951 | 113.54.824 | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .2 | 17 | 7.4 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.0 | 24.0 | 24.5 | 24.5 | 24.5 | 24.5 | 24.33 | - | | |
| Salinity (ppt) | 32.3 | 32.3 | 35.4 | 35.5 | 35.8 | 35.6 | 34.49 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.08 | | | |
| D.O. Saturation (%) | 95.6 | 96.8 | 94.1 | 95.1 | 100.3 | 98.4 | 96.72 | - | | |
| D.O. (mg/L) | 6.7 | 6.8 | 6.4 | 6.5 | 6.8 | 6.7 | 6.65 | 6.77 | | |
| Turbidity (NTU) | 8.2 | 8.1 | 13.8 | 13.7 | 13.3 | 13.8 | 11.82 | - | | |
| SS (mg/L) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 7.0 | 5.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 13:02 | -13:04 | | | Northing | Easting | | |
| Water Depth (m) | | | 19 | | 22.21.533 | 113.55.465 | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .5 | 18 | 8.0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 24.0 | 24.0 | 24.3 | 24.4 | 24.6 | 24.6 | 24.31 | - | | |
| Salinity (ppt) | 31.8 | 31.7 | 33.9 | 33.9 | 36.1 | 36.0 | 33.88 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.10 | | | |
| D.O. Saturation (%) | 101.6 | 99.2 | 94.2 | 93.3 | 95.4 | 92.9 | 96.10 | - | | |
| D.O. (mg/L) | 7.1 | 7.0 | 6.5 | 6.4 | 6.5 | 6.3 | 6.63 | 6.39 | | |
| Turbidity (NTU) | 5.5 | 5.7 | 6.1 | 6.8 | 8.5 | 8.9 | 6.92 | - | | |
| SS (mg/L) | 5.0 | 5.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.00 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

Station MPB1 Time (hh:mm) 13:41-13:42 Water Depth (m) 9.2 Monitoring Depth (m) 1.0 4.6 8.2 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 24.0 24.0 24.1 24.0 24.2 24.1 24.06 Salinity (ppt) 31.0 31.0 31.3 31.2 32.0 31.6 31.36 pН 8.1 8.1 8.1 8.1 8.0 8.1 8.05 D.O. Saturation (%) 97.0 96.4 97.2 94.5 94.8 98.5 96.40 D.O. (mg/L) 6.8 6.8 6.8 6.7 6.6 6.9 6.77 6.77 3.9 3.8 4.2 4.3 4.8 4.8 4.30 Turbidity (NTU) SS (mg/L) 6.0 4.0 6.0 6.0 6.0 6.0 5.67 Remarks Dredging works was observed.

| Station | | | MF | PB2 | | | | |
|------------------------|---------|---------|---------|----------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 13:48 | | | | | |
| Water Depth (m) | | | 9 | .7 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .9 | 8 | .7 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.0 | 23.9 | 24.0 | 24.0 | 24.0 | 24.1 | 23.99 | - |
| Salinity (ppt) | 30.8 | 30.8 | 31.1 | 31.0 | 33.0 | 33.0 | 31.61 | - |
| pH | 8.0 | 8.1 | 8.0 | 8.1 | 8.0 | 8.1 | 8.05 | |
| D.O. Saturation (%) | 98.2 | 97.1 | 99.7 | 97.5 | 105.2 | 98.4 | 99.35 | - |
| D.O. (mg/L) | 6.9 | 6.9 | 7.0 | 6.9 | 7.3 | 6.9 | 6.98 | 7.09 |
| Turbidity (NTU) | 8.2 | 8.0 | 13.7 | 13.6 | 16.0 | 15.0 | 12.42 | - |
| SS (mg/L) | 6.0 | 5.0 | 6.0 | 5.0 | 6.0 | 5.0 | 5.50 | - |
| Remarks | | | | Dredging | g works was | observed. | | |

| Station | | | N | IP | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 13:34 | -13:34 | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | | |
| 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 | 23.8 | 23.91 | - | | | |
| Salinity (ppt) | 30.8 | 30.4 | - | - | 30.9 | 31.4 | 30.86 | - | | | |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 8.01 | | | | |
| D.O. Saturation (%) | 99.8 | 102.7 | - | - | 100.7 | 106.5 | 102.43 | - | | | |
| D.O. (mg/L) | 7.1 | 7.3 | - | - | 7.1 | 7.5 | 7.24 | 7.31 | | | |
| Turbidity (NTU) | 7.1 | 6.9 | - | - | 6.7 | 6.0 | 6.68 | - | | | |
| SS (mg/L) | 7.0 | 6.0 | - | - | 5.0 | 6.0 | 6.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | Mean(C1+ | -C3)*130% | IM | 01 | IMO2 | IMO2 | | MPB1 | | MPB2 | | IP |
|----------------------------|--------|-------|----------|-----------|----------|-------------|--|----------|-------------------------------------|------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action Exceedance Exceedance | | Exceedanc Exceedance of Limit Level | | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.0 | 7.0 | 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 |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.0 | 6.0 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 5.7 | 5.7 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/20/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 24C |

| Station | | | C2 (| NM5) | | |] | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 20:09 | -20:11 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.0 | 19 | 9.0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 24.0 | 24.0 | 23.8 | 23.8 | 23.7 | 23.7 | 23.83 | - | | |
| Salinity (ppt) | 33.2 | 33.3 | 34.4 | 34.3 | 35.2 | 35.2 | 34.27 | - | | |
| pН | 8.0 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.97 | | | |
| D.O. Saturation (%) | 90.5 | 91.0 | 90.8 | 89.8 | 91.9 | 91.6 | 90.93 | - | | |
| D.O. (mg/L) | 6.1 | 6.1 | 6.1 | 6.0 | 6.1 | 6.1 | 6.08 | 6.09 | | |
| Turbidity (NTU) | 5.1 | 5.3 | 5.5 | 5.7 | 6.2 | 6.5 | 5.72 | - | | |
| SS (mg/L) | 6.0 | 7.0 | 5.0 | 6.0 | 8.0 | 6.0 | 6.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | linates |
|------------------------|---------|---------|-----------|--------------|-------------|---------|----------|---------|
| Time (hh:mm) | | | 19:40 | -19:42 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.400 | 113.53.192 | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .0 | 5 | .0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.8 | 23.8 | 23.7 | 23.8 | 23.7 | 23.7 | 23.75 | - |
| Salinity (ppt) | 34.3 | 34.3 | 34.8 | 34.7 | 35.2 | 35.2 | 34.72 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.04 | |
| D.O. Saturation (%) | 90.4 | 91.1 | 89.9 | 90.6 | 91.1 | 92.0 | 90.85 | - |
| D.O. (mg/L) | 6.0 | 6.1 | 6.0 | 6.0 | 6.1 | 6.11 | 6.04 | 6.08 |
| Turbidity (NTU) | 5.5 | 5.4 | 6.3 | 6.5 | 7.4 | 7.2 | 6.38 | - |
| SS (mg/L) | 6.0 | 7.0 | 8.0 | 6.0 | 8.0 | 8.0 | 7.17 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | dinates | | |
|------------------------|-------------------------|------------------------------|-----------|------------|---------|---------|----------|---------|--|--|
| Time (hh:mm) | | | 19:17 | -19:19 | | | Northing | Easting | | |
| Water Depth (m) | | | 22.21.292 | 113.53.692 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .6 | 6 | 5.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 23.8 | 23.9 | 23.7 | 23.7 | 23.7 | 23.7 | 23.73 | - | | |
| Salinity (ppt) | 34.4 | 34.2 | 34.9 | 34.8 | 35.3 | 35.2 | 34.80 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.08 | | | |
| D.O. Saturation (%) | 91.3 | 90.5 | 88.9 | 89.4 | 94.8 | 94.4 | 91.55 | - | | |
| D.O. (mg/L) | 6.1 | 6.0 | 5.9 | 6.0 | 6.3 | 6.25 | 6.08 | 6.27 | | |
| Turbidity (NTU) | 4.9 | 5.1 | 5.4 | 5.4 | 5.9 | 6.1 | 5.47 | - | | |
| SS (mg/L) | 6.0 6.0 7.0 6.0 6.0 6.0 | | | | | | | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | PB1 | | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | 19:28 | 8-19:30 | | | | | |
| Water Depth (m) | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | 1.0 | 7 | .0 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 23.8 | 23.9 | 23.8 | 23.8 | 23.7 | 23.7 | 23.78 | - | |
| Salinity (ppt) | 34.4 | 34.4 | 35.2 | 35.4 | 33.5 | 36.9 | 34.97 | - | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.03 | | |
| D.O. Saturation (%) | 91.5 | 89.7 | 92.1 | 92.2 | 94.2 | 92.6 | 92.05 | - | |
| D.O. (mg/L) | 6.2 | 6.1 | 6.2 | 6.2 | 6.3 | 6.2 | 6.19 | 6.22 | |
| Turbidity (NTU) | 4.6 | 4.6 | 5.5 | 5.2 | 5.8 | 5.9 | 5.27 | - | |
| SS (mg/L) | 5.0 | 6.0 | 6.0 | 7.0 | 5.0 | 7.0 | 6.00 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Station | | | MP | PB2 | | |] | |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | 19:04 | -19:06 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .4 | 7 | .8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.9 | 23.9 | 23.8 | 23.8 | 23.7 | 23.7 | 23.78 | - |
| Salinity (ppt) | 34.1 | 34.1 | 35.6 | 35.6 | 36.3 | 36.3 | 35.31 | - |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 | 8.12 | |
| D.O. Saturation (%) | 88.3 | 87.4 | 88.9 | 89.4 | 90.7 | 90.7 | 89.23 | - |
| D.O. (mg/L) | 6.0 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.00 | 6.05 |
| Turbidity (NTU) | 5.5 | 5.6 | 6.0 | 6.2 | 6.8 | 6.6 | 6.12 | - |
| SS (mg/L) | 7.0 | 6.0 | 6.0 | 7.0 | 7.0 | 7.0 | 6.67 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | P | | | 1 | | | | | | |
|------------------------|---------|---------|---------|------------------------------|---------|---------|--------------------|--------|--|--|--|--|--|
| Time (hh:mm) | | | 19:50 | -19:51 | | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | | |
| 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) | 24.1 | 24.1 | - | - | 23.7 | 23.7 | 23.92 | - | | | | | |
| Salinity (ppt) | 33.7 | 33.6 | - | - | 34.9 | 34.8 | 34.24 | - | | | | | |
| рН | 8.0 | 8.0 | - | - | 8.1 | 8.1 | 8.04 | | | | | | |
| D.O. Saturation (%) | 92.5 | 91.7 | - | - | 93.2 | 92.7 | 92.53 | - | | | | | |
| D.O. (mg/L) | 6.3 | 6.2 | - | - | 6.2 | 6.2 | 6.22 | 6.19 | | | | | |
| Turbidity (NTU) | 4.2 | 4.1 | - | - | 4.8 | 4.9 | 4.50 | - | | | | | |
| SS (mg/L) | 8.0 | 8.0 | - | - | 6.0 | 7.0 | 7.25 | - | | | | | |
| Remarks | | | D | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | 30% | 0% IMO1 | | IMO2 | | | MPB1 | | B2 | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|---------|---|----------------------------------|---|-----------------------------------|---------------------------|---|----------------------------------|----|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action Level | | Exceedanc e of Action Level | Exceedance of Limit Level | | Exceedan ce of Limit Level | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.4 | 7.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 8.2 | 8.2 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/20/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 13:53 | -13:56 | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .3 | 15 | 5.6 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.0 | 23.9 | 23.6 | 23.6 | 23.6 | 23.6 | 23.73 | - | | | |
| Salinity (ppt) | 35.2 | 35.2 | 35.9 | 35.9 | 36.6 | 36.7 | 35.92 | - | | | |
| pH | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.14 | | | | |
| D.O. Saturation (%) | 89.3 | 88.7 | 84.9 | 85.8 | 86.1 | 86.7 | 86.92 | - | | | |
| D.O. (mg/L) | 5.9 | 5.9 | 5.6 | 5.7 | 5.7 | 5.8 | 5.76 | 5.73 | | | |
| Turbidity (NTU) | 2.9 | 2.8 | 3.2 | 3.3 | 3.9 | 4.2 | 3.38 | - | | | |
| SS (mg/L) | 5.0 | 6.0 | 7.0 | 6.0 | 6.0 | 4.0 | 5.67 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 15:12 | -15:14 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.1 | 24.1 | 23.7 | 23.7 | 23.6 | 23.6 | 23.79 | - | | | |
| Salinity (ppt) | 32.7 | 32.8 | 33.3 | 33.3 | 34.0 | 34.0 | 33.34 | - | | | |
| pH | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.19 | | | | |
| D.O. Saturation (%) | 97.5 | 98.6 | 96.5 | 96.2 | 97.6 | 98.1 | 97.42 | - | | | |
| D.O. (mg/L) | 6.6 | 6.6 | 6.4 | 6.4 | 6.4 | 6.5 | 6.48 | 6.45 | | | |
| Turbidity (NTU) | 4.3 | 4.4 | 5.1 | 5.0 | 5.5 | 5.5 | 4.97 | - | | | |
| SS (mg/L) | 7.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 14:25 | -14:27 | | | Northing | Easting | | |
| Water Depth (m) | | | 6 | | 22.21.403 | 113.53.196 | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 23.8 | 23.9 | 23.7 | 23.7 | 23.6 | 23.6 | 23.72 | - | | |
| Salinity (ppt) | 34.0 | 34.0 | 34.5 | 34.6 | 35.0 | 35.0 | 34.52 | - | | |
| pH | 8.1 | 8.0 | 8.1 | 8.0 | 8.0 | 8.0 | 8.03 | | | |
| D.O. Saturation (%) | 94.4 | 94.8 | 92.5 | 92.7 | 97.5 | 95.9 | 94.63 | - | | |
| D.O. (mg/L) | 6.3 | 6.3 | 6.2 | 6.2 | 6.5 | 6.4 | 6.29 | 6.41 | | |
| Turbidity (NTU) | 4.2 | 4.4 | 4.9 | 4.9 | 5.7 | 5.9 | 5.00 | - | | |
| SS (mg/L) | 6.0 | 7.0 | 7.0 | 7.0 | 6.0 | 7.0 | 6.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | s | | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 14:43 | -14:46 | | | Northing | Easting | | |
| Water Depth (m) | | | 7 | | 22.21.296 | 113.53.701 | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 23.9 | 23.9 | 23.7 | 23.7 | 23.7 | 23.7 | 23.77 | - | | |
| Salinity (ppt) | 33.7 | 33.7 | 34.5 | 34.3 | 35.0 | 35.0 | 34.34 | - | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.03 | | | |
| D.O. Saturation (%) | 93.0 | 92.9 | 91.7 | 91.4 | 93.9 | 93.6 | 92.75 | - | | |
| D.O. (mg/L) | 6.2 | 6.2 | 6.1 | 6.1 | 6.2 | 6.2 | 6.17 | 6.22 | | |
| Turbidity (NTU) | 4.6 | 4.5 | 4.9 | 5.2 | 6.2 | 6.3 | 5.28 | - | | |
| SS (mg/L) | 7.0 | 8.0 | 7.0 | 7.0 | 5.0 | 6.0 | 6.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | PB1 | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 14:34 | -14:36 | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | |
| 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) | 23.9 | 24.0 | 23.7 | 23.7 | 23.7 | 23.7 | 23.79 | - | | |
| Salinity (ppt) | 33.9 | 34.0 | 34.7 | 34.7 | 36.2 | 36.2 | 34.96 | - | | |
| pH | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.04 | | | |
| D.O. Saturation (%) | 91.8 | 90.4 | 93.5 | 91.6 | 94.8 | 92.8 | 92.48 | - | | |
| D.O. (mg/L) | 6.2 | 6.1 | 6.3 | 6.1 | 6.3 | 6.2 | 6.21 | 6.24 | | |
| Turbidity (NTU) | 4.0 | 4.1 | 4.5 | 4.4 | 5.3 | 5.1 | 4.57 | - | | |
| SS (mg/L) | 5.0 | 5.0 | 6.0 | 6.0 | 7.0 | 5.0 | 5.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB2 | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 14:55 | -14:58 | | | | | | | |
| Water Depth (m) | | | 9 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.9 | 24.0 | 23.7 | 23.7 | 23.7 | 23.7 | 23.79 | - | | | |
| Salinity (ppt) | 33.9 | 33.8 | 34.1 | 34.1 | 35.6 | 35.7 | 34.55 | - | | | |
| pH | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.07 | | | | |
| D.O. Saturation (%) | 87.4 | 87.8 | 89.1 | 89.5 | 90.9 | 91.1 | 89.30 | - | | | |
| D.O. (mg/L) | 5.9 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.00 | 6.08 | | | |
| Turbidity (NTU) | 3.4 | 3.5 | 4.2 | 3.9 | 4.8 | 5.1 | 4.15 | - | | | |
| SS (mg/L) | 6.0 | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 5.67 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | N | IP | | | | | | | |
|------------------------|---------|------------------------------|----------------|--------|------|------|-------|------|--|--|--|
| Time (hh:mm) | | | 14:15 | 14:17 | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | | | | |
| Water Temperature (°C) | 24.2 | 24.3 | - | - | 23.7 | 23.7 | 23.97 | - | | | |
| Salinity (ppt) | 33.8 | 33.7 | - | - | 35.3 | 35.2 | 34.53 | - | | | |
| pH | 8.0 | 8.0 | - | - | 8.1 | 8.1 | 8.05 | | | | |
| D.O. Saturation (%) | 92.0 | 92.5 | - | - | 95.2 | 95.5 | 93.80 | - | | | |
| D.O. (mg/L) | 6.3 | 6.3 | - | - | 6.3 | 6.4 | 6.31 | 6.35 | | | |
| Turbidity (NTU) | 3.3 | 3.5 | - | - | 4.5 | 4.2 | 3.88 | - | | | |
| SS (mg/L) | 7.0 | 8.0 | - | - | 7.0 | 6.0 | 7.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| compliance with Action an | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.1 | 6.1 | N | N | Ν | Ν | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.1 | 6.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 5.4 | 5.4 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 7.7 | 7.7 | N | Ν | N | Ν | N | N | N | N | N | N |

| Sampling Date | 11/21/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C2 (| NM5) | | |] | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 18 | 3.4 | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .2 | 1 | 7.4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (℃) | 23.7 | 23.9 | 22.6 | 22.6 | 21.6 | 21.6 | 22.66 | - |
| Salinity (ppt) | 23.7 | 23.6 | 27.4 | 27.5 | 30.3 | 30.2 | 27.13 | - |
| pН | 7.6 | 7.7 | 7.7 | 7.7 | 7.6 | 7.6 | 7.64 | |
| D.O. Saturation (%) | 87.2 | 86.0 | 74.5 | 73.4 | 70.7 | 70.6 | 77.07 | - |
| D.O. (mg/L) | 5.9 | 5.8 | 5.0 | 4.9 | 4.7 | 4.7 | 5.17 | 4.74 |
| Turbidity (NTU) | 6.3 | 6.3 | 7.0 | 6.9 | 8.1 | 8.4 | 7.17 | - |
| SS (mg/L) | 8.0 | 7.0 | 9.0 | 8.0 | 7.0 | 8.0 | 7.83 | - |
| Remarks | Dredging works was observed. | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinates | |
|-----------------------|---------|---------|---------|--------------|-------------|---------|--------------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 17 | 7.0 | | | 22.21.175 | 113.53.398 |
| Monitoring Depth (m) | 1 | .0 | 8 | .5 | 10 | 6.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (℃) | 23.8 | 23.8 | 22.8 | 22.8 | 22.1 | 22.2 | 22.89 | - |
| Salinity (ppt) | 22.4 | 22.1 | 26.5 | 26.4 | 28.3 | 28.4 | 25.68 | - |
| рН | 7.6 | 7.6 | 7.7 | 7.7 | 7.7 | 7.7 | 7.65 | |
| D.O. Saturation (%) | 84.4 | 85.9 | 74.3 | 73.2 | 71.1 | 72.6 | 76.92 | - |
| D.O. (mg/L) | 5.7 | 5.8 | 5.0 | 4.9 | 4.8 | 4.87 | 5.18 | 4.82 |
| Turbidity (NTU) | 6.8 | 6.8 | 7.3 | 7.2 | 8.0 | 8.3 | 7.40 | - |
| SS (mg/L) | 7.0 | 8.0 | 6.0 | 7.00 | - | | | |
| Remarks | | - | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | dinates | | |
|-----------------------|---------|------------------------------|---------|----------|---------|---------|--------------------|------------|--|--|
| Time (hh:mm) | | | | Northing | Easting | | | | | |
| Water Depth (m) | | | 12 | 2.2 | | | 22.21.122 | 113.53.929 | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .1 | 1 | 1.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.6 | 23.7 | 22.9 | 22.8 | 22.1 | 22.2 | 22.88 | - | | |
| Salinity (ppt) | 23.1 | 22.9 | 26.0 | 26.3 | 28.6 | 28.2 | 25.83 | - | | |
| pH | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.6 | 7.67 | | | |
| D.O. Saturation (%) | 85.5 | 37.3 | 75.9 | 75.3 | 72.5 | 72.6 | 69.85 | - | | |
| D.O. (mg/L) | 5.8 | 5.8 | 5.1 | 5.1 | 4.9 | 4.88 | 5.26 | 4.87 | | |
| Turbidity (NTU) | 6.9 | 7.0 | 7.7 | 7.7 | 8.2 | 8.0 | 7.58 | - | | |
| SS (mg/L) | 7.0 | 7.0 | 6.0 | 6.67 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | PB1 | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | | | | | | |
| 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 (℃) | 24.2 | 24.2 | 23.0 | 23.0 | 22.7 | 22.7 | 23.29 | - |
| Salinity (ppt) | 18.2 | 18.6 | 24.7 | 24.8 | 26.4 | 26.3 | 23.16 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.61 | |
| D.O. Saturation (%) | 85.2 | 86.6 | 73.8 | 73.5 | 75.5 | 75.6 | 78.37 | - |
| D.O. (mg/L) | 5.9 | 5.9 | 5.0 | 5.0 | 5.1 | 5.1 | 5.32 | 5.09 |
| Turbidity (NTU) | 6.7 | 6.6 | 7.3 | 7.3 | 7.6 | 7.8 | 7.22 | - |
| SS (mg/L) | 7.0 | 6.0 | 7.0 | 6.0 | 7.0 | 6.0 | 6.50 | - |
| Remarks | Dredging works was observed. | | | | | | | |

| Station | | | MP | PB2 | | |] | | | |
|------------------------|---------|--------------------------------|---------|---------|---------|---------|----------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| 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- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 24.5 | 24.4 | 23.4 | 23.5 | 22.9 | 23.1 | 23.65 | - | | |
| Salinity (ppt) | 17.6 | 17.8 | 22.6 | 22.0 | 25.4 | 23.8 | 21.53 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.7 | 7.6 | 7.6 | 7.63 | | | |
| D.O. Saturation (%) | 92.8 | 92.7 | 79.9 | 78.0 | 78.6 | 77.1 | 83.18 | - | | |
| D.O. (mg/L) | 6.4 | 6.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.66 | 5.27 | | |
| Turbidity (NTU) | 6.9 | 6.9 6.8 8.0 8.0 8.8 8.6 7.85 | | | | | | | | |
| SS (mg/L) | 7.0 | 7.0 6.0 6.0 8.0 6.0 8.0 6.83 - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | N | IP | | | 1 | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| 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) | 23.8 | 23.8 24.0 22.9 23.0 23.43 | | | | | | | | |
| Salinity (ppt) | 20.1 | 20.3 | - | - | 25.0 | 25.1 | 22.64 | - | | |
| pH | 7.5 | 7.5 | - | - | 7.5 | 7.5 | 7.52 | | | |
| D.O. Saturation (%) | 83.2 | 84.4 | - | - | 77.0 | 75.2 | 79.95 | - | | |
| D.O. (mg/L) | 5.7 | 5.8 | - | - | 5.2 | 5.1 | 5.43 | 5.14 | | |
| Turbidity (NTU) | 7.0 | 7.0 6.9 9.0 9.0 7.98 - | | | | | | | | |
| SS (mg/L) | 6.0 | 6.0 6.0 8.0 6.0 6.50 - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|--------|-------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | C2*1 | 30% | IMO1 | | IMO2 | | | MPB1 | MPB2 | | N | IP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 4.7 | 4.7 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.2 | 5.2 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.3 | 9.3 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.2 | 10.2 | N | N | N | N | N | N | N | N | N | N |

| Station | | | C1 (I | NM3) | | | | | | | |
|------------------------|---------|--------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 16:26 | | | | | | | | |
| Water Depth (m) | | | 16 | 6.4 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.9 | 23.9 | 23.3 | 23.1 | 22.3 | 22.3 | 23.11 | - | | | |
| Salinity (ppt) | 24.4 | 24.1 | 26.4 | 27.0 | 29.1 | 29.1 | 26.69 | - | | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.6 | 7.60 | | | | |
| D.O. Saturation (%) | 87.6 | 86.8 | 76.6 | 75.5 | 74.3 | 73.9 | 79.12 | - | | | |
| D.O. (mg/L) | 5.9 | 5.9 | 5.1 | 5.1 | 5.0 | 5.0 | 5.32 | 4.98 | | | |
| Turbidity (NTU) | 6.3 | 6.3 | 6.9 | 6.9 | 8.5 | 8.5 | 7.23 | - | | | |
| SS (mg/L) | 5.0 | 5.0 5.0 5.0 7.0 5.0 6.0 5.50 - | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | |
|------------------------|---------|--------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 15:08 | | | | | | | |
| 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) | 24.7 | 24.7 | 24.1 | 24.2 | 23.1 | 23.5 | 24.03 | - | | |
| Salinity (ppt) | 18.2 | 18.2 18.4 21.3 21.1 26.6 25.3 | | | | | | - | | |
| pН | 7.5 | 7.5 | 7.6 | 7.6 | 7.5 | 7.5 | 7.54 | | | |
| D.O. Saturation (%) | 95.3 | 95.9 | 85.3 | 84.8 | 79.7 | 82.2 | 87.20 | - | | |
| D.O. (mg/L) | 6.5 | 6.6 | 5.8 | 5.8 | 5.4 | 5.5 | 5.93 | 5.45 | | |
| Turbidity (NTU) | 6.4 | 6.5 | 7.4 | 7.25 | - | | | | | |
| SS (mg/L) | 6.0 | 6.0 6.0 5.0 5.0 6.0 6.0 5.67 - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|-----------------------|-------------------------------|------------------------------|---------|---------|----------|---------|----------------|------------|--|--|
| Time (hh:mm) | | | 16:02 | | Northing | Easting | | | | |
| Water Depth (m) | | | 16 | 5.6 | | | 22.21.181 | 113.53.400 | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .3 | 15 | 5.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 24.1 | 24.1 | 23.3 | 23.4 | 22.6 | 22.6 | 23.34 | - | | |
| Salinity (ppt) | 21.9 21.9 26.0 25.8 28.0 28.1 | | | | | | 25.27 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.58 | | | |
| D.O. Saturation (%) | 85.1 | 84.8 | 75.8 | 76.2 | 75.4 | 74.0 | 78.55 | - | | |
| D.O. (mg/L) | 5.8 | 5.8 | 5.1 | 5.1 | 5.1 | 5.0 | 5.30 | 5.02 | | |
| Turbidity (NTU) | 6.8 | 6.8 | 7.0 | 6.9 | 8.2 | 8.1 | 7.30 | - | | |
| SS (mg/L) | 5.0 | 5.0 5.0 5.0 4.0 5.0 6.0 5.00 | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | |
|-----------------------|------------------------------|------------------------------|---------|---------|----------|---------|----------------|------------|--|--|
| Time (hh:mm) | | | 16:13 | | Northing | Easting | | | | |
| Water Depth (m) | | | 11 | .2 | | | 22.21.121 | 113.53.917 | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .6 | 10 |).2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 24.1 | 24.1 | 23.4 | 23.4 | 22.6 | 22.6 | 23.34 | - | | |
| Salinity (ppt) | 22.7 22.4 25.2 7.6 28.4 28.5 | | | | | | 25.36 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.59 | | | |
| D.O. Saturation (%) | 84.6 | 85.1 | 75.0 | 74.4 | 70.9 | 70.8 | 76.80 | - | | |
| D.O. (mg/L) | 5.7 | 5.8 | 5.1 | 5.0 | 4.8 | 4.8 | 5.18 | 4.76 | | |
| Turbidity (NTU) | 7.1 | 7.1 | 7.5 | 7.5 | 8.8 | 8.9 | 7.82 | - | | |
| SS (mg/L) | 6.0 | 8.0 | 5.0 | 4.0 | 5.50 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | M | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 15:35 | | | | | | | |
| 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) | 24.6 | 24.5 | 23.5 | 23.5 | 23.1 | 23.0 | 23.72 | - | | |
| Salinity (ppt) | 17.7 | 18.0 | 22.83 | - | | | | | | |
| pН | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.53 | | | |
| D.O. Saturation (%) | 85.7 | 86.8 | 74.8 | 75.6 | 76.8 | 75.9 | 79.27 | - | | |
| D.O. (mg/L) | 5.9 | 6.0 | 5.1 | 5.1 | 5.2 | 5.1 | 5.39 | 5.14 | | |
| Turbidity (NTU) | 6.9 | 6.9 | 7.1 | 7.2 | 7.7 | 7.8 | 7.27 | - | | |
| SS (mg/L) | 6.0 | 6.0 8.0 6.0 7.0 6.0 8.0 6.83 | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | | | | | | | |
|------------------------|-------------------------------|--------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| Water Depth (m) | | | 9 | .8 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .9 | 8 | .8 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.7 | 24.8 | 24.0 | 23.9 | 23.3 | 23.3 | 24.00 | - | | |
| Salinity (ppt) | 17.0 17.1 21.6 22.4 25.3 25.5 | | | | | | 21.47 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.5 | 7.55 | | | |
| D.O. Saturation (%) | 89.9 | 89.8 | 81.2 | 80.7 | 77.7 | 77.9 | 82.87 | - | | |
| D.O. (mg/L) | 6.2 | 6.2 | 5.5 | 5.5 | 5.2 | 5.3 | 5.64 | 5.25 | | |
| Turbidity (NTU) | 6.9 | 6.9 | 8.5 | 8.6 | 9.3 | 9.1 | 8.22 | - | | |
| SS (mg/L) | 7.0 | 7.0 9.0 5.0 7.0 6.0 6.0 6.67 - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | | | | | | | | |
|------------------------|---------------------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| 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) | 24.2 | 24.2 | - | - | 23.3 | 23.3 | 23.73 | - | | |
| Salinity (ppt) | 19.8 19.8 25.3 25.3 | | | | | | 22.54 | - | | |
| pH | 7.5 | 7.5 | - | - | 7.5 | 7.5 | 7.49 | | | |
| D.O. Saturation (%) | 81.8 | 82.2 | - | - | 76.4 | 75.0 | 78.85 | - | | |
| D.O. (mg/L) | 5.6 | 5.6 | - | - | 5.2 | 5.1 | 5.36 | 5.11 | | |
| Turbidity (NTU) | 7.2 | 7.3 | - | - | 8.8 | 8.7 | 8.00 | - | | |
| SS (mg/L) | 6.0 | 6.0 6.0 5.0 6.0 5.75 - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | -C3)*130% | IM | 01 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.2 | 5.2 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.6 | 5.6 | Ν | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.4 | 9.4 | Ν | N | Ν | Ν | N | N | Ν | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 7.3 | 7.3 | N | N | Ν | N | N | N | Ν | N | N | N |

| Sampling Date | 11/22/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C2 (| NM5) | | | 1 | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 8:59 | -9:02 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.1 | 19 | 9.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.4 | 23.4 | 24.1 | 24.1 | 24.0 | 24.0 | 23.82 | - | | |
| Salinity (ppt) | 32.7 | 32.6 | 36.1 | 36.2 | 36.6 | 36.6 | 35.12 | - | | |
| pН | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.06 | | | |
| D.O. Saturation (%) | 102.9 | 102.3 | 97.7 | 98.7 | 101.2 | 100.5 | 100.55 | - | | |
| D.O. (mg/L) | 7.3 | 7.2 | 6.7 | 6.8 | 6.9 | 6.9 | 6.95 | 6.89 | | |
| Turbidity (NTU) | 3.3 | 3.5 | 7.2 | 7.5 | 8.3 | 8.1 | 6.32 | - | | |
| SS (mg/L) | 5.0 | 6.0 | 3.0 | 4.0 | 5.0 | 4.0 | 4.50 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | IMO1 | | | | | | | | | | |
|------------------------|---------|------------------------------|-------|---------|---------|---------|-----------|------------|--|--|--|--|--|--|
| Time (hh:mm) | | | 8:45 | -8:47 | | | Northing | Easting | | | | | | |
| Water Depth (m) | | | 16 | 6.0 | | | 22.22.091 | 113.55.001 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | | | | |
| Trial | Trial 1 | Trial 1 Trial 2 | | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | | | |
| | | | | | | | averaged | | | | | | | |
| Water Temperature (°C) | 24.3 | 24.3 | 24.5 | 24.5 | 24.6 | 24.6 | 24.46 | - | | | | | | |
| Salinity (ppt) | 34.8 | 34.8 | 35.0 | 35.0 | 35.4 | 35.5 | 35.10 | - | | | | | | |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.06 | | | | | | | |
| D.O. Saturation (%) | 103.8 | 104.5 | 104.0 | 104.4 | 104.6 | 104.3 | 104.27 | - | | | | | | |
| D.O. (mg/L) | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.08 | 7.10 | 7.10 | | | | | | |
| Turbidity (NTU) | 4.9 | 5.2 | 4.8 | 4.8 | 6.2 | 6.5 | 5.40 | - | | | | | | |
| SS (mg/L) | 6.0 | 5.0 | 9.33 | - | | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ore | dinates | | | |
|------------------------|------------------------------|------------------------------------|---------|-----------|------------|---------|--------------------|---------|--|--|--|
| Time (hh:mm) | | | 8:33 | -8:36 | | | Northing | Easting | | | |
| Water Depth (m) | | | | 22.21.695 | 113.55.498 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 24.7 | 24.6 | 24.0 | 24.0 | 23.8 | 23.8 | 24.13 | - | | | |
| Salinity (ppt) | 35.2 | 35.0 | 36.1 | 36.0 | 36.4 | 36.3 | 35.83 | - | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.08 | | | | |
| D.O. Saturation (%) | 103.2 | 103.0 | 101.0 | 100.8 | 102.6 | 102.8 | 102.23 | - | | | |
| D.O. (mg/L) | 7.0 | 7.0 | 6.9 | 6.9 | 7.1 | 7.07 | 7.00 | 7.06 | | | |
| Turbidity (NTU) | 4.6 | 4.4 | 5.5 | 5.6 | 6.4 | 6.5 | 5.50 | - | | | |
| SS (mg/L) | 7.0 | 7.0 9.0 10.0 11.0 10.0 11.0 9.67 - | | | | | | | | | |
| Remarks | Dredging works was observed. | | | | | | | | | | |

| Station | | | MF | PB1 | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | | 1 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | 3.8 | 6 | .6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (°C) | 23.1 | 23.1 | 23.3 | 23.4 | 23.4 | 23.3 | 23.25 | - | | |
| Salinity (ppt) | 31.0 | 31.1 | 33.5 | 33.6 | 33.9 | 34.0 | 32.85 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.08 | | | |
| D.O. Saturation (%) | 103.1 | 104.1 | 100.8 | 100.9 | 101.7 | 102.6 | 102.20 | - | | |
| D.O. (mg/L) | 7.4 | 7.5 | 7.1 | 7.1 | 7.1 | 7.2 | 7.23 | 7.17 | | |
| Turbidity (NTU) | 1.7 | 1.5 | 3.4 | 3.1 | 3.7 | 3.9 | 2.88 | - | | |
| SS (mg/L) | 5.0 | 7.0 | 4.0 | 4.0 | 3.0 | 3.0 | 4.33 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB2 | | |] | | | | |
|------------------------|---------|------------------------------|-------------------|---------|---------|--------|--------|------|--|--|--|
| Time (hh:mm) | | | 9:37 | -9:39 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .0 | 7 | .0 | | | | | |
| Trial | Trial 1 | Trial 2 | 2 Trial 1 Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | averaged | | | | | | | | | |
| Water Temperature (°C) | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.23 | - | | | |
| Salinity (ppt) | 32.2 | 32.2 | 32.5 | 32.5 | 36.0 | 35.9 | 33.56 | - | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.10 | | | | |
| D.O. Saturation (%) | 103.9 | 104.4 | 103.1 | 103.2 | 103.4 | 103.1 | 103.52 | - | | | |
| D.O. (mg/L) | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 7.29 | 7.17 | | | |
| Turbidity (NTU) | 3.4 | 3.5 | 3.5 | 3.6 | 4.1 | 4.2 | 3.72 | - | | | |
| SS (mg/L) | 5.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | N | IP | | | 1 | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | 9:17 | -9:19 | | | | | |
| Water Depth (m) | | | | | | | | | |
| 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) | 23.0 | 22.9 | - | - | 23.4 | 23.4 | 23.18 | - | |
| Salinity (ppt) | 31.5 | 31.4 | - | - | 34.7 | 34.6 | 33.04 | - | |
| pH | 8.1 | 8.1 | - | - | 8.1 | 8.1 | 8.07 | | |
| D.O. Saturation (%) | 106.1 | 106.9 | - | - | 108.8 | 107.5 | 107.33 | - | |
| D.O. (mg/L) | 7.6 | 7.7 | - | - | 7.6 | 7.5 | 7.59 | 7.55 | |
| Turbidity (NTU) | 2.4 | 2.5 | - | - | 4.3 | 4.4 | 3.40 | - | |
| SS (mg/L) | 4.0 | 4.0 | - | - | 6.0 | 4.0 | 4.50 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | C2*130% | | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|---------|---------|-------------------------|---------|--------------------------|---------------------------|--------|-------------------------|--------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | ce of | | Exceedance of Action | | Exceedanc e of Action | Exceedance of Limit Level | ce of | Exceedan ce of Limit | | Exceedan ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.9 | 6.9 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.9 | 6.9 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.2 | 8.2 | N | N | N | N | N | N | N | N | Ν | N |
| SS (Depth-averaged) | 24.0 | 37.0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | N | N | N | N | N | N |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 15:43 | | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.9 | 23.9 | 23.7 | 23.7 | 24.0 | 24.0 | 23.85 | - | | | |
| Salinity (ppt) | 35.6 | 35.8 | 36.1 | 36.1 | 36.6 | 36.6 | 36.14 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 7.9 | 7.9 | 7.95 | | | | |
| D.O. Saturation (%) | 106.1 | 107.1 | 104.1 | 104.6 | 105.0 | 105.7 | 105.43 | - | | | |
| D.O. (mg/L) | 7.3 | 7.4 | 7.2 | 7.2 | 7.2 | 7.2 | 7.24 | 7.20 | | | |
| Turbidity (NTU) | 1.4 | 1.5 | 5.9 | 5.6 | 5.4 | 5.3 | 4.18 | - | | | |
| SS (mg/L) | 4.0 | 6.0 | 4.0 | 5.0 | 6.0 | 8.0 | 5.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 14:13 | | | | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 23.4 | 23.3 | 23.4 | 23.4 | 23.4 | 23.4 | 23.37 | - | | | | |
| Salinity (ppt) | 32.9 | 32.9 | 33.3 | 33.4 | 34.7 | 34.8 | 33.69 | - | | | | |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.07 | | | | | |
| D.O. Saturation (%) | 109.5 | 109.8 | 109.1 | 109.6 | 109.0 | 109.4 | 109.40 | - | | | | |
| D.O. (mg/L) | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.6 | 7.69 | 7.64 | | | | |
| Turbidity (NTU) | 5.8 | 5.7 | 5.5 | 5.6 | 6.3 | 6.5 | 5.90 | - | | | | |
| SS (mg/L) | 5.0 | 5.0 | 3.0 | 4.33 | - | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 15:15 | -15:17 | | | Northing | Easting | | | |
| Water Depth (m) | | | 16 | 6.2 | | | 22.22.099 | 113.54.992 | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | 5.2 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.4 | 24.4 | 25.1 | 25.0 | 24.1 | 24.0 | 24.51 | - | | | |
| Salinity (ppt) | 34.4 | 34.5 | 36.0 | 35.9 | 36.0 | 36.1 | 35.47 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | | | | |
| D.O. Saturation (%) | 105.1 | 105.5 | 103.0 | 101.9 | 103.4 | 102.7 | 103.60 | - | | | |
| D.O. (mg/L) | 7.2 | 7.2 | 6.9 | 6.9 | 7.1 | 7.0 | 7.06 | 7.04 | | | |
| Turbidity (NTU) | 4.6 | 4.4 | 5.5 | 5.5 | 6.1 | 6.3 | 5.40 | - | | | |
| SS (mg/L) | 9.0 | 10.0 | 7.0 | 8.0 | 8.00 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 15:28 | -15:30 | | | Northing | Easting | | | |
| Water Depth (m) | | | 14 | l.0 | | | 22.21.699 | 113.55.492 | | | |
| Monitoring Depth (m) | 1 | .0 | 7 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 24.6 | 24.6 | 24.0 | 24.0 | 23.8 | 23.8 | 24.15 | - | | | |
| Salinity (ppt) | 34.9 | 34.8 | 35.9 | 35.9 | 36.0 | 36.0 | 35.58 | - | | | |
| pH | 8.0 | 8.1 | 8.0 | 8.0 | 8.0 | 8.0 | 8.04 | | | | |
| D.O. Saturation (%) | 107.3 | 106.2 | 101.7 | 102.6 | 106.3 | 106.2 | 105.05 | - | | | |
| D.O. (mg/L) | 7.3 | 7.3 | 7.0 | 7.0 | 7.3 | 7.3 | 7.20 | 7.30 | | | |
| Turbidity (NTU) | 4.2 | 4.3 | 5.6 | 5.8 | 6.3 | 6.1 | 5.38 | - | | | |
| SS (mg/L) | 7.0 | 9.0 | 7.0 | 11.0 | 8.67 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | M | PB1 | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 14:40 | -14:41 | | | | | |
| Water Depth (m) | | | 7 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 23.1 | 23.1 | 23.4 | 23.4 | 23.4 | 23.4 | 23.30 | - | |
| Salinity (ppt) | 30.1 | 30.0 | 33.2 | 33.2 | 33.5 | 33.5 | 32.23 | - | |
| pН | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.04 | | |
| D.O. Saturation (%) | 104.3 | 105.9 | 103.5 | 103.4 | 106.1 | 105.0 | 104.70 | - | |
| D.O. (mg/L) | 7.5 | 7.6 | 7.3 | 7.3 | 7.5 | 7.4 | 7.42 | 7.41 | |
| Turbidity (NTU) | 2.2 | 2.0 | 3.3 | 3.5 | 4.0 | 4.3 | 3.22 | - | |
| SS (mg/L) | 4.0 | 4.0 | 2.0 | 2.0 | 6.0 | 5.0 | 3.83 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | MF | PB2 | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 14:29 | -14:31 | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | |
| 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 | 23.3 | 23.3 | 23.29 | - | | |
| Salinity (ppt) | 32.1 | 32.0 | 32.3 | 32.3 | 36.0 | 35.9 | 33.41 | - | | |
| pH | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.06 | | | |
| D.O. Saturation (%) | 106.3 | 107.0 | 104.9 | 104.5 | 106.3 | 105.6 | 105.77 | - | | |
| D.O. (mg/L) | 7.5 | 7.6 | 7.4 | 7.4 | 7.4 | 7.3 | 7.44 | 7.35 | | |
| Turbidity (NTU) | 3.7 | 3.5 | 4.0 | 4.2 | 5.6 | 5.8 | 4.47 | - | | |
| SS (mg/L) | 5.0 | 5.0 5.0 5.0 4.0 5.0 4.0 4.67 | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | N | IP | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 14:50 | -14:51 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 23.0 | 23.0 | - | - | 23.5 | 23.5 | 23.25 | - | | |
| Salinity (ppt) | 31.4 | 31.5 | - | - | 34.3 | 34.3 | 32.87 | - | | |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 8.02 | | | |
| D.O. Saturation (%) | 107.2 | 106.4 | - | - | 109.2 | 107.9 | 107.68 | - | | |
| D.O. (mg/L) | 7.7 | 7.6 | - | - | 7.6 | 7.5 | 7.61 | 7.57 | | |
| Turbidity (NTU) | 3.6 | 3.5 | - | - | 4.9 | 4.8 | 4.20 | - | | |
| SS (mg/L) | 4.0 | 4.0 4.0 6.0 4.0 4.50 | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | -C3)*130% | IM | 01 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.4 | 7.4 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.5 | 7.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.6 | 6.6 | N | N | Ν | N | N | N | Ν | Ν | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 6.4 | 6.4 | N | N | Ν | N | N | N | Ν | N | N | N |

| Sampling Date | 11/23/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | C2 (NM5) | | | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 10:27 | -10:28 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .4 | 1 | 7.8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 23.5 | 23.5 | 24.2 | 24.1 | 24.1 | 24.0 | 23.88 | - | | | |
| Salinity (ppt) | 32.5 | 32.5 | 36.0 | 35.9 | 36.5 | 36.4 | 34.95 | - | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.11 | | | | |
| D.O. Saturation (%) | 105.4 | 105.1 | 101.5 | 100.5 | 104.0 | 103.3 | 103.30 | - | | | |
| D.O. (mg/L) | 7.4 | 7.4 | 6.9 | 6.9 | 7.1 | 7.1 | 7.12 | 7.08 | | | |
| Turbidity (NTU) | 4.7 | 4.5 | 5.1 | 5.3 | 5.4 | 5.6 | 5.10 | - | | | |
| SS (mg/L) | 6.0 | 6.0 | 11.0 | 9.0 | 7.0 | 8.0 | 7.83 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | IMO1 Co-ordinates | | | | | | | | |
|------------------------|---------|------------------------------|-----------|------------|---------|---------|----------|---------|--|--|
| Time (hh:mm) | | | 9:35 | -9:36 | | | Northing | Easting | | |
| Water Depth (m) | | | 22.22.094 | 113.54.998 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 7 | .8 | 14 | 1.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | | | | |
| Water Temperature (°C) | 24.3 | 24.4 | 24.6 | 24.6 | 24.6 | 24.7 | 24.52 | - | | |
| Salinity (ppt) | 34.7 | 34.6 | 34.9 | 34.9 | 35.3 | 35.3 | 34.93 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.11 | | | |
| D.O. Saturation (%) | 107.0 | 106.6 | 106.5 | 107.2 | 107.1 | 107.1 | 106.92 | - | | |
| D.O. (mg/L) | 7.2 | 7.3 | 7.2 | 7.3 | 7.2 | 7.27 | 7.24 | 7.24 | | |
| Turbidity (NTU) | 4.1 | 4.3 | 4.7 | 4.6 | 4.8 | 4.9 | 4.57 | - | | |
| SS (mg/L) | 5.0 | 7.0 | 6.33 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ore | dinates |
|-----------------------|------------------------------|---------|---------|-----------|-----------|---------|--------------------|---------|
| Time (hh:mm) | | | 9:24 | -9:25 | | | Northing | Easting |
| Water Depth (m) | | | | 22.21.697 | 13.55.495 | | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .5 | 12 | 2.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (℃) | 24.7 | 24.7 | 24.0 | 24.0 | 23.9 | 23.8 | 24.19 | - |
| Salinity (ppt) | 35.0 | 34.9 | 35.9 | 35.9 | 36.2 | 36.1 | 35.66 | - |
| pH | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.2 | 8.13 | |
| D.O. Saturation (%) | 105.7 | 105.8 | 103.6 | 103.8 | 105.4 | 105.6 | 104.98 | - |
| D.O. (mg/L) | 7.1 | 7.2 | 7.1 | 7.1 | 7.2 | 7.26 | 7.18 | 7.25 |
| Turbidity (NTU) | 4.3 | 4.2 | 4.3 | 4.5 | 4.8 | 4.9 | 4.50 | - |
| SS (mg/L) | 6.0 | 8.0 | 6.0 | 7.0 | 6.0 | 7.0 | 6.67 | - |
| Remarks | Dredging works was observed. | | | | | | | |

| Station | | | MF | PB1 | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | | | | | | |
| 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 (℃) | 23.1 | 23.1 | 23.4 | 23.4 | 23.5 | 23.4 | 23.31 | - |
| Salinity (ppt) | 31.0 | 31.0 30.9 33.4 33.4 33.7 | | | | | 32.68 | - |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.13 | |
| D.O. Saturation (%) | 106.6 | 105.9 | 103.6 | 103.7 | 104.2 | 105.4 | 104.90 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.3 | 7.3 | 7.2 | 7.4 | 7.39 | 7.31 |
| Turbidity (NTU) | 3.8 | 3.6 | 5.5 | 5.4 | 5.8 | 5.9 | 5.00 | - |
| SS (mg/L) | 7.0 | 6.0 | 6.0 | 7.0 | 7.0 | 5.0 | 6.33 | - |
| Remarks | | Dredging works was observed. | | | | | | |

| Station | | | MF | PB2 | | | 1 | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------|--------|
| Time (hh:mm) | | | 9:48 | -9:49 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.29 | - |
| Salinity (ppt) | 32.0 | 32.1 | 32.3 | 32.4 | 35.9 | 35.7 | 33.39 | - |
| pH | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.16 | |
| D.O. Saturation (%) | 107.2 | 106.7 | 106.0 | 105.9 | 106.2 | 105.6 | 106.27 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.5 | 7.5 | 7.4 | 7.3 | 7.47 | 7.31 |
| Turbidity (NTU) | 4.5 | 4.3 | 4.6 | 4.8 | 5.1 | 5.3 | 4.77 | - |
| SS (mg/L) | 7.0 | 6.0 | 6.0 | 7.0 | 6.0 | 6.0 | 6.33 | - |
| Remarks | | Dredging works was observed. | | | | | | |

| Station | | | N | IP | | | 1 | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 10:09 | -10:09 | | | | | | |
| 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) | 23.0 | 23.0 | - | - | 23.5 | 23.5 | 23.24 | - | | |
| Salinity (ppt) | 31.2 | 31.3 | - | - | 34.5 | 34.4 | 32.87 | - | | |
| pH | 8.1 | 8.1 | - | - | 8.1 | 8.1 | 8.12 | | | |
| D.O. Saturation (%) | 109.7 | 108.9 | - | - | 111.6 | 110.0 | 110.05 | - | | |
| D.O. (mg/L) | 7.9 | 7.8 | - | - | 7.8 | 7.6 | 7.75 | 7.69 | | |
| Turbidity (NTU) | 5.2 | 5.1 | - | - | 5.4 | 5.6 | 5.33 | - | | |
| SS (mg/L) | 7.0 | 6.0 | - | - | 7.0 | 6.0 | 6.50 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | 30% | IM | 01 | IM | 02 | | MPB1 | MF | PB2 | N | IP |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|-------------|-----------|----------|-------------|---------------------------|--------|-------------|--------|-------------|
| | Action Level | Limit Level | Action Level | Limit Level | ce of | ce of Limit | of Action | of Limit | e of Action | Exceedance of Limit Level | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.1 | 7.1 | N | N | N | N | N | N | N | N | Ν | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.1 | 7.1 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.2 | 10.2 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/23/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (I | NM3) | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 16:17 | | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 23.9 | 24.0 | 23.7 | 23.7 | 24.0 | 24.1 | 23.91 | - | | | |
| Salinity (ppt) | 35.6 | 35.5 | 36.0 | 36.0 | 36.4 | 36.4 | 35.97 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.01 | | | | |
| D.O. Saturation (%) | 109.9 | 108.9 | 107.4 | 106.9 | 108.2 | 107.5 | 108.13 | - | | | |
| D.O. (mg/L) | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.3 | 7.39 | 7.29 | | | |
| Turbidity (NTU) | 4.7 | 4.5 | 4.8 | 4.7 | 5.1 | 5.3 | 4.85 | - | | | |
| SS (mg/L) | 8.0 | 6.0 | 8.0 | 7.0 | 7.0 | 6.0 | 7.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (| NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 15:12 | | | | | | | | |
| Water Depth (m) | | | 7 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | | |
| 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 | 23.4 | 23.5 | 23.5 | 23.44 | - | | | |
| Salinity (ppt) | 32.8 | 32.8 | 33.2 | 33.2 | 34.7 | 34.6 | 33.52 | - | | | |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.13 | | | | |
| D.O. Saturation (%) | 112.3 | 112.3 | 111.6 | 112.4 | 112.2 | 111.8 | 112.10 | - | | | |
| D.O. (mg/L) | 7.8 | 7.9 | 7.8 | 7.9 | 7.8 | 7.9 | 7.84 | 7.83 | | | |
| Turbidity (NTU) | 5.1 | 5.1 | 5.5 | 5.3 | 5.8 | 5.9 | 5.45 | - | | | |
| SS (mg/L) | 5.0 | 6.0 | 7.0 | 8.0 | 5.0 | 6.0 | 6.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | s |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|------------|
| Time (hh:mm) | | | 15:53 | -15:54 | | | Northing | Easting |
| Water Depth (m) | | | 16 | 6.0 | | | 22.22.096 | 113.53.684 |
| Monitoring Depth (m) | 1 | .0 | 8 | .0 | 15 | 5.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.5 | 24.5 | 25.1 | 25.1 | 24.1 | 24.1 | 24.58 | - |
| Salinity (ppt) | 34.3 | 34.2 | 35.7 | 35.8 | 35.9 | 35.9 | 35.31 | - |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.07 | |
| D.O. Saturation (%) | 108.3 | 107.9 | 104.7 | 105.8 | 105.5 | 105.9 | 106.35 | - |
| D.O. (mg/L) | 7.4 | 7.4 | 7.1 | 7.1 | 7.2 | 7.2 | 7.23 | 7.18 |
| Turbidity (NTU) | 4.7 | 4.5 | 5.3 | 5.1 | 5.3 | 5.6 | 5.08 | - |
| SS (mg/L) | 9.0 | 10.0 | 9.0 | 10.0 | 6.0 | 8.0 | 8.67 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 02 | | | Co-ordinate | es | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 15:59 | -16:03 | | | Northing | Easting | |
| Water Depth (m) | | | 13 | | 22.21.694 | 113.55.498 | | | |
| Monitoring Depth (m) | 1 | 1.0 6.8 12.6 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 24.7 | 24.7 | 24.1 | 24.1 | 23.9 | 23.9 | 24.21 | - | |
| Salinity (ppt) | 34.7 | 34.7 | 35.8 | 35.7 | 35.8 | 35.8 | 35.41 | - | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.09 | | |
| D.O. Saturation (%) | 110.1 | 108.7 | 104.5 | 105.1 | 109.1 | 109.0 | 107.75 | - | |
| D.O. (mg/L) | 7.5 | 7.3 | 7.2 | 7.1 | 7.5 | 7.5 | 7.35 | 7.49 | |
| Turbidity (NTU) | 5.2 | 5.1 | 5.3 | 5.5 | 5.8 | 5.9 | 5.47 | - | |
| SS (mg/L) | 6.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.0 | 6.67 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

Station MPB1 Time (hh:mm) 15:35-15:36 Water Depth (m) 8.6 Monitoring Depth (m) 1.0 4.3 7.6 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 23.2 23.2 23.5 23.4 23.5 23.5 23.36 Salinity (ppt) 30.0 29.8 33.1 33.0 33.3 33.3 32.06 -8.1 8.1 рН 8.1 8.1 8.1 8.1 8.10 D.O. Saturation (%) 107.1 108.7 106.2 106.0 108.9 107.5 107.40 D.O. (mg/L) 7.7 7.8 7.5 7.4 7.6 7.5 7.57 7.55 4.45 4.1 4.3 4.5 4.3 4.7 4.8 Turbidity (NTU) SS (mg/L) 7.0 7.0 7.0 6.0 5.0 7.0 6.50 Remarks Dredging works was observed.

| Station | | | MF | PB2 | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 15:24 | | | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | | |
| 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 | 23.4 | 23.3 | 23.36 | - | | | |
| Salinity (ppt) | 31.9 | 31.8 | 32.1 | 32.1 | 35.8 | 35.8 | 33.25 | - | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.11 | | | | |
| D.O. Saturation (%) | 109.1 | 109.5 | 107.7 | 107.3 | 108.8 | 108.4 | 108.47 | - | | | |
| D.O. (mg/L) | 7.7 | 7.7 | 7.6 | 7.6 | 7.5 | 7.5 | 7.60 | 7.49 | | | |
| Turbidity (NTU) | 4.2 | 4.3 | 4.8 | 4.7 | 5.2 | 5.4 | 4.77 | - | | | |
| SS (mg/L) | 5.0 | 7.0 | 5.0 | 6.0 | 9.0 | 10.0 | 7.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | Ν | IP | | | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 15:43 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 23.0 | 23.1 | - | - | 23.6 | 23.6 | 23.31 | - | |
| Salinity (ppt) | 31.2 | 31.3 | - | - | 34.1 | 34.2 | 32.70 | - | |
| pH | 8.1 | 8.1 | - | - | 8.1 | 8.1 | 8.07 | | |
| D.O. Saturation (%) | 110.0 | 108.9 | - | - | 112.0 | 110.7 | 110.40 | - | |
| D.O. (mg/L) | 7.9 | 7.7 | - | - | 7.8 | 7.7 | 7.77 | 7.76 | |
| Turbidity (NTU) | 4.6 | 4.4 | - | - | 4.8 | 4.9 | 4.68 | - | |
| SS (mg/L) | 8.0 | 9.0 | - | - | 6.0 | 8.0 | 7.75 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Parameter | As in | EM&A | Mean(C1- | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MPB2 | | MP | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedance | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.6 | 7.6 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.6 | 7.6 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.7 | 6.7 | N | N | Ν | Ν | Ν | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 8.6 | 8.6 | N | Ν | N | N | N | N | N | N | N | Ν |

| Sampling Date | 11/24/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | | 1 | | | | | |
|-----------------------|---------|------------------------------|------|------|------|------|-------|------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 19 | 9.2 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 3.2 | | | |
| Trial | Trial 1 | | | | | | | | |
| Water Temperature (℃) | 25.0 | 24.4 | 24.8 | 24.8 | 24.6 | 24.6 | 24.71 | - | |
| Salinity (ppt) | 28.3 | 28.8 | 29.1 | 29.1 | 29.4 | 29.4 | 29.00 | - | |
| рН | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.00 | | |
| D.O. Saturation (%) | 88.3 | 90.9 | 90.9 | 89.3 | 90.8 | 88.4 | 89.77 | - | |
| D.O. (mg/L) | 7.4 | 7.7 | 7.6 | 7.5 | 7.6 | 7.4 | 7.51 | 7.49 | |
| Turbidity (NTU) | 3.5 | 3.5 | 7.1 | 7.6 | 8.2 | 8.1 | 6.33 | - | |
| SS (mg/L) | 5.0 | 4.0 | 5.0 | 5.0 | 3.0 | 4.0 | 4.33 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | linates |
|------------------------|---------|--------------|----------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | Northing | Easting | | | | |
| Water Depth (m) | | | 18 | 3.1 | | | 22.21.850 | 113.54.907 |
| Monitoring Depth (m) | 1 | 1.0 9.1 17.1 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.6 | 24.7 | 24.6 | 24.6 | 24.6 | 24.6 | 24.59 | - |
| Salinity (ppt) | 29.8 | 29.6 | 29.9 | 29.8 | 25.2 | 29.9 | 29.04 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | |
| D.O. Saturation (%) | 89.1 | 89.3 | 87.0 | 90.1 | 92.2 | 90.4 | 89.68 | - |
| D.O. (mg/L) | 7.4 | 7.4 | 7.3 | 7.5 | 7.9 | 7.54 | 7.52 | 7.73 |
| Turbidity (NTU) | 3.1 | 3.1 | 6.5 | 6.8 | 6.7 | 6.7 | 5.48 | - |
| SS (mg/L) | 4.0 | 5.0 | 4.0 | 6.0 | 5.0 | 4.0 | 4.67 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | dinates | | |
|------------------------|---------|------------------------------|---------|----------|---------|---------|-----------|------------|--|--|
| Time (hh:mm) | | | | Northing | Easting | | | | | |
| Water Depth (m) | | | 19 | 9.2 | | | 22.21.577 | 113.55.544 | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 3.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 24.7 | 24.7 | 24.6 | 24.6 | 24.6 | 24.5 | 24.61 | - | | |
| Salinity (ppt) | 29.6 | 29.7 | 29.9 | 29.9 | 29.9 | 30.1 | 29.84 | - | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | | | |
| D.O. Saturation (%) | 88.0 | 88.2 | 88.3 | 89.9 | 89.6 | 90.5 | 89.08 | - | | |
| D.O. (mg/L) | 7.3 | 7.4 | 7.4 | 7.5 | 7.5 | 7.55 | 7.43 | 7.51 | | |
| Turbidity (NTU) | 2.9 | 2.9 | 4.9 | 5.1 | 5.6 | 5.9 | 4.55 | - | | |
| SS (mg/L) | 5.0 | 4.0 | 4.0 | 4.50 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB1 | | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 8 | 3.2 | | | | | |
| 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 (℃) | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.87 | - | |
| Salinity (ppt) | 28.7 | 28.6 | 29.2 | 28.6 | 28.6 | 28.6 | 28.71 | - | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.00 | | |
| D.O. Saturation (%) | 89.0 | 89.4 | 89.8 | 88.7 | 88.6 | 89.2 | 89.12 | - | |
| D.O. (mg/L) | 7.4 | 7.5 | 7.7 | 7.4 | 7.4 | 7.5 | 7.48 | 7.43 | |
| Turbidity (NTU) | 5.4 | 5.2 | 5.4 | 5.3 | 5.6 | 5.9 | 5.47 | - | |
| SS (mg/L) | 9.0 | 7.0 | 5.0 | 4.0 | 6.0 | 4.0 | 5.83 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Station | | | MP | B2 | | |] | |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | 10:26 | -10:27 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .4 | 7 | .7 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.8 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.74 | - |
| Salinity (ppt) | 28.4 | 28.8 | 28.8 | 28.9 | 28.6 | 28.8 | 28.72 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.01 | |
| D.O. Saturation (%) | 90.4 | 89.6 | 89.6 | 89.3 | 90.2 | 89.7 | 89.80 | - |
| D.O. (mg/L) | 7.6 | 7.5 | 7.5 | 7.5 | 7.6 | 7.5 | 7.52 | 7.53 |
| Turbidity (NTU) | 6.4 | 6.6 | 6.1 | 6.7 | 6.6 | 6.6 | 6.50 | - |
| SS (mg/L) | 4.0 | 4.0 | 4.67 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | |
|-----------------------|---------|--------------------|--------|--------------|-------------|-------|-------|------|
| Time (hh:mm) | | | 10:44 | -10:44 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .7 | 4 | .4 | | |
| Trial | Trial 1 | Depth- averaged | Bottom | | | | | |
| Water Temperature (℃) | 25.0 | 24.9 | - | - | 25.0 | 24.9 | 24.94 | - |
| Salinity (ppt) | 28.1 | 28.2 | - | - | 28.2 | 28.3 | 28.18 | - |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 7.96 | |
| D.O. Saturation (%) | 88.9 | 89.1 | - | - | 88.2 | 88.5 | 88.68 | - |
| D.O. (mg/L) | 7.4 | 7.5 | - | - | 7.4 | 7.4 | 7.42 | 7.40 |
| Turbidity (NTU) | 3.9 | 4.0 | - | - | 4.9 | 4.9 | 4.43 | - |
| SS (mg/L) | 4.0 | 4.0 | 5.0 | 4.50 | - | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Parameter | As in | EM&A | C2*1 | 30% | IM | IMO1 | | IMO2 | | MPB1 | MPB2 | | N | IP |
|----------------------------|-----------------|----------------|-----------------|----------------|----|------|----------------------------------|------|-----------------------------------|---------------------------|------|----------------------------------|---|----------------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action Level | | Exceedanc e of Action Level | Exceedance of Limit Level | | Exceedan ce of Limit Level | | Exceedan ce of Limit Level |
| DO (Bottom) | 3.3 | 2.5 | 7.5 | 7.5 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.5 | 7.5 | N | N | N | N | N | N | N | N | N | Ν |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.2 | NA | N | N | N | N | N | N | N | N | Ν | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 5.6 | 5.6 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/24/08 |
|-------------------------------|-----------|
| Weather & Ambient Temperature | Fine, 26C |

| Station | | | C1 (| NM3) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 15:26 | | | | | |
| Water Depth (m) | | | 16 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | 5.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 25.0 | 25.1 | 24.8 | 24.8 | 24.8 | 24.8 | 24.88 | - |
| Salinity (ppt) | 28.2 | 28.2 | 28.9 | 29.0 | 29.2 | 29.2 | 28.79 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 7.99 | |
| D.O. Saturation (%) | 88.9 | 88.4 | 87.7 | 88.1 | 88.3 | 88.2 | 88.27 | - |
| D.O. (mg/L) | 7.4 | 7.4 | 7.3 | 7.4 | 7.4 | 7.4 | 7.37 | 7.37 |
| Turbidity (NTU) | 4.5 | 4.5 | 4.8 | 4.5 | 4.8 | 4.7 | 4.63 | - |
| SS (mg/L) | 5.0 | 4.0 | 6.0 | 4.0 | 4.67 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (| NM6) | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 16:47 | | | | | | | | | |
| Water Depth (m) | | | 6 | .9 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.6 | 24.66 | - | | | | |
| Salinity (ppt) | 29.1 | 28.9 | 28.9 | 29.1 | 28.9 | 29.1 | 29.01 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | | | | | |
| D.O. Saturation (%) | 93.6 | 94.7 | 95.6 | 93.6 | 93.6 | 97.3 | 94.73 | - | | | | |
| D.O. (mg/L) | 7.8 | 7.9 | 8.0 | 7.8 | 7.8 | 8.1 | 7.92 | 7.98 | | | | |
| Turbidity (NTU) | 5.0 | 4.9 | 5.3 | 5.3 | 5.8 | 5.9 | 5.37 | - | | | | |
| SS (mg/L) | 4.0 | 4.0 | 4.0 | 5.0 | 4.33 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|--|
| Time (hh:mm) | | | 15:49 | -15:51 | | | Northing | Easting | | | |
| Water Depth (m) | | | 18 | | 22.21.951 | 113.54.824 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 24.7 | 24.7 | 24.6 | 24.6 | 24.6 | 24.6 | 24.61 | - | | | |
| Salinity (ppt) | 29.6 | 29.6 | 29.8 | 29.9 | 28.0 | 29.9 | 29.46 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.02 | | | | |
| D.O. Saturation (%) | 89.3 | 88.8 | 86.7 | 89.2 | 89.2 | 88.7 | 88.65 | - | | | |
| D.O. (mg/L) | 7.4 | 7.4 | 7.2 | 7.4 | 7.5 | 7.4 | 7.41 | 7.47 | | | |
| Turbidity (NTU) | 4.3 | 4.3 | 7.8 | 7.2 | 7.7 | 7.3 | 6.43 | - | | | |
| SS (mg/L) | 4.0 | 4.0 | 6.0 | 5.0 | 4.67 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinates | | | | |
|-----------------------|--------------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|--|
| Time (hh:mm) | | | 15:38 | -15:40 | | | Northing | Easting | | | |
| Water Depth (m) | | | 19 | | 22.21.533 | 113.55.465 | | | | | |
| Monitoring Depth (m) | 1.0 9.7 18.3 | | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 24.7 | 24.7 | 24.6 | 24.6 | 24.6 | 24.6 | 24.60 | - | | | |
| Salinity (ppt) | 29.6 | 29.7 | 28.8 | 29.9 | 29.9 | 29.9 | 29.64 | - | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.03 | | | | |
| D.O. Saturation (%) | 89.9 | 89.0 | 88.1 | 88.6 | 89.3 | 89.1 | 89.00 | - | | | |
| D.O. (mg/L) | 7.5 | 7.4 | 7.4 | 7.4 | 7.5 | 7.4 | 7.43 | 7.44 | | | |
| Turbidity (NTU) | 4.3 | 4.1 | 4.0 | 4.3 | 4.3 | 4.2 | 4.20 | - | | | |
| SS (mg/L) | 6.0 | 4.0 | 5.0 | 4.0 | 4.67 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | M | | | | | |
|------------------------|---------|---------|---------|---------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 16:16 | -16:18 | | | | |
| 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) | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.87 | - |
| Salinity (ppt) | 28.6 | 25.8 | 28.7 | 28.6 | 29.1 | 28.7 | 28.26 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 7.9 | 8.0 | 7.99 | |
| D.O. Saturation (%) | 90.9 | 89.4 | 91.5 | 89.8 | 93.6 | 90.7 | 90.98 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.6 | 7.5 | 7.8 | 7.6 | 7.62 | 7.69 |
| Turbidity (NTU) | 7.0 | 7.1 | 7.8 | 7.3 | 7.1 | 7.7 | 7.33 | - |
| SS (mg/L) | 4.0 | 4.0 | 6.0 | 6.0 | 6.0 | 7.0 | 5.50 | - |
| Remarks | | | | Dredgin | g works was | observed. | | |

| Station | | | MF | PB2 | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 16:26 | -16:28 | | | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .7 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.74 | - | | | | |
| Salinity (ppt) | 28.8 | 28.8 | 28.7 | 28.8 | 28.8 | 28.8 | 28.79 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.01 | | | | | |
| D.O. Saturation (%) | 90.0 | 90.5 | 91.0 | 89.8 | 90.4 | 91.8 | 90.58 | - | | | | |
| D.O. (mg/L) | 7.5 | 7.6 | 7.6 | 7.5 | 7.6 | 7.7 | 7.58 | 7.62 | | | | |
| Turbidity (NTU) | 6.2 | 6.1 | 6.5 | 6.8 | 6.5 | 6.6 | 6.45 | - | | | | |
| SS (mg/L) | 5.0 | 6.0 | 4.0 | 6.0 | 5.00 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 16:06 | | | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .7 | | | | | | | | |
| 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 | 24.98 | - | | | | |
| Salinity (ppt) | 28.2 | 28.1 | - | - | 28.2 | 28.5 | 28.26 | - | | | | |
| pH | 7.9 | 8.0 | - | - | 8.0 | 7.9 | 7.94 | | | | | |
| D.O. Saturation (%) | 92.1 | 90.0 | - | - | 89.1 | 93.9 | 91.28 | - | | | | |
| D.O. (mg/L) | 7.7 | 7.5 | - | - | 7.5 | 7.8 | 7.63 | 7.64 | | | | |
| Turbidity (NTU) | 3.3 | 3.3 | - | - | 3.7 | 3.5 | 3.45 | - | | | | |
| SS (mg/L) | 4.0 | 4.0 | - | - | 3.0 | 3.0 | 3.50 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Compliance with Action a | | | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1- | -C3)*130% | IM | 101 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.7 | 7.7 | N | N | Ν | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.6 | 7.6 | N | N | Ν | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.5 | 6.5 | N | N | Ν | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 5.9 | 5.9 | N | Ν | N | N | N | N | Ν | N | N | Ν |

| Sampling Date | 11/25/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 24C |

| Station | | | C2 (| NM5) | | |] | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 12:26 | -12:28 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 8.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.4 | 23.4 | 23.8 | 23.8 | 23.8 | 23.8 | 23.66 | - | | |
| Salinity (ppt) | 36.4 | 36.6 | 37.9 | 38.0 | 38.0 | 38.1 | 37.47 | - | | |
| pH | 8.1 | 8.1 | 8.0 | 8.0 | 7.9 | 7.9 | 7.98 | | | |
| D.O. Saturation (%) | 106.8 | 106.4 | 89.6 | 88.6 | 90.9 | 91.1 | 95.57 | - | | |
| D.O. (mg/L) | 7.4 | 7.4 | 6.1 | 6.0 | 6.2 | 6.2 | 6.53 | 6.18 | | |
| Turbidity (NTU) | 3.9 | 3.7 | 5.6 | 6.0 | 7.1 | 6.9 | 5.53 | - | | |
| SS (mg/L) | 7.0 | 9.0 | 8.0 | 8.0 | 8.0 | 6.0 | 7.67 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 01 | | | Co-or | dinates |
|------------------------|---------|---------|-----------|--------------|-------------|---------|----------|---------|
| Time (hh:mm) | | | 11:26 | -11:28 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.565 | 113.54.126 | | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .3 | 9 | .6 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.4 | 23.3 | 23.3 | 23.3 | 23.4 | 23.4 | 23.37 | - |
| Salinity (ppt) | 36.0 | 36.1 | 36.4 | 36.5 | 37.2 | 37.2 | 36.57 | - |
| рН | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.15 | |
| D.O. Saturation (%) | 112.9 | 110.7 | 105.1 | 105.9 | 101.9 | 106.1 | 107.10 | - |
| D.O. (mg/L) | 7.8 | 7.7 | 7.3 | 7.3 | 7.0 | 7.29 | 7.40 | 7.15 |
| Turbidity (NTU) | 5.0 | 5.4 | 6.6 | 6.3 | 8.7 | 8.2 | 6.70 | - |
| SS (mg/L) | 7.0 | 9.0 | 7.67 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | • |

| Station | | | IM | 02 | | | Co-or | dinates | | |
|-----------------------|---------|------------------------------|-----------|-----------|---------|---------|--------------------|---------|--|--|
| Time (hh:mm) | | | 11:37 | -11:39 | | | Northing | Easting | | |
| Water Depth (m) | | | 22.21.348 | 13.54.962 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .8 | 1: | 2.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.4 | 23.4 | 23.5 | 23.5 | 23.6 | 23.6 | 23.49 | - | | |
| Salinity (ppt) | 36.5 | 36.6 | 37.4 | 37.4 | 37.6 | 37.6 | 37.17 | - | | |
| pH | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.13 | | | |
| D.O. Saturation (%) | 103.1 | 104.8 | 97.6 | 98.6 | 99.6 | 98.0 | 100.28 | - | | |
| D.O. (mg/L) | 7.1 | 7.2 | 6.7 | 6.8 | 6.8 | 6.70 | 6.88 | 6.76 | | |
| Turbidity (NTU) | 6.4 | 6.6 | 6.9 | 6.8 | 7.5 | 7.6 | 6.97 | - | | |
| SS (mg/L) | 8.0 | 10.0 | 8.0 | 8.67 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB1 | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 11:58 | -11:59 | | | | | | | |
| 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 (℃) | 23.4 | 23.3 | 23.3 | 23.3 | 23.4 | 23.3 | 23.32 | - | | | |
| Salinity (ppt) | 36.1 | 36.1 | 36.4 | 36.4 | 36.4 | 36.6 | 36.31 | - | | | |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.16 | | | | |
| D.O. Saturation (%) | 113.8 | 111.0 | 109.6 | 111.2 | 112.7 | 111.1 | 111.57 | - | | | |
| D.O. (mg/L) | 7.9 | 7.7 | 7.6 | 7.7 | 7.8 | 7.7 | 7.72 | 7.74 | | | |
| Turbidity (NTU) | 5.3 | 5.6 | 5.6 | 5.8 | 6.1 | 5.7 | 5.68 | - | | | |
| SS (mg/L) | 9.0 | 8.0 | 8.0 | 7.0 | 9.0 | 7.0 | 8.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB2 | | | 1 | | | | |
|------------------------|---------|------------------------------|-----------------|---------|---------|--------|----------|------|--|--|--|
| Time (hh:mm) | | | 11:47 | -11:48 | | | | | | | |
| Water Depth (m) | | | 8 | .6 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .3 | 7 | .6 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 23.4 | 23.4 | 23.3 | 23.4 | 23.5 | 23.5 | 23.40 | - | | | |
| Salinity (ppt) | 36.6 | 36.6 | 36.9 | 36.9 | 37.4 | 37.4 | 36.98 | - | | | |
| pH | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.14 | | | | |
| D.O. Saturation (%) | 103.0 | 102.9 | 102.8 | 101.4 | 104.5 | 102.4 | 102.83 | - | | | |
| D.O. (mg/L) | 7.1 | 7.1 | 7.1 | 7.0 | 7.2 | 7.0 | 7.08 | 7.10 | | | |
| Turbidity (NTU) | 7.1 | 7.1 | 6.8 | 7.2 | 6.5 | 6.3 | 6.83 | - | | | |
| SS (mg/L) | 9.0 | 9.0 | 9.00 | - | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 12:07 | -12:08 | | | | | | | |
| 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) | 23.3 | 23.3 | - | - | 23.3 | 23.3 | 23.31 | - | | | |
| Salinity (ppt) | 36.2 | 36.1 | - | - | 36.3 | 36.2 | 36.20 | - | | | |
| pH | 8.2 | 8.2 | - | - | 8.2 | 8.2 | 8.17 | | | | |
| D.O. Saturation (%) | 112.3 | 112.4 | - | - | 112.1 | 113.1 | 112.48 | - | | | |
| D.O. (mg/L) | 7.8 | 7.8 | - | - | 7.8 | 7.8 | 7.79 | 7.80 | | | |
| Turbidity (NTU) | 4.8 | 4.5 | - | - | 5.1 | 5.5 | 4.98 | - | | | |
| SS (mg/L) | 6.0 | 6.0 6.0 7.0 6.0 6.25 | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Compliance with Action and Limit Level | | | | | | | | | | | | | | |
|--|--------|-------|--------|------------|----------|-------------------|-----------|------------|-------------|------------------------------------|--------|-------------|----------|-------------|
| Parameter | As in | EM&A | C2*1 | *130% IMO1 | | 01 | IMO2 | | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan Exceedan | | Exceedance | Exceedanc | xceedanc Exceedance of Limit Level | | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.2 | 6.2 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.2 | 7.2 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.0 | 10.0 | N | N | N | N | N | N | N | N | N | N |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 17:13 | | | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .0 | 15 | 5.0 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.3 | 23.4 | 23.8 | 23.7 | 23.8 | 23.8 | 23.65 | - | | | |
| Salinity (ppt) | 36.6 | 36.5 | 38.0 | 37.8 | 38.1 | 38.1 | 37.51 | - | | | |
| pH | 8.1 | 8.1 | 8.0 | 8.0 | 8.0 | 8.0 | 8.01 | | | | |
| D.O. Saturation (%) | 103.3 | 104.2 | 87.8 | 88.5 | 89.5 | 90.8 | 94.02 | - | | | |
| D.O. (mg/L) | 7.1 | 7.2 | 6.0 | 6.0 | 6.1 | 6.2 | 6.43 | 6.12 | | | |
| Turbidity (NTU) | 4.5 | 4.4 | 6.6 | 6.1 | 7.7 | 7.5 | 6.13 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 10.0 | 8.0 | 9.0 | 8.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 16:01 | | | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .4 | 5 | .8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.40 | - | | | |
| Salinity (ppt) | 36.6 | 36.6 | 36.6 | 36.63 | - | | | | | | |
| pН | 8.2 | 8.2 | 8.2 | 8.1 | 8.2 | 8.1 | 8.15 | | | | |
| D.O. Saturation (%) | 114.8 | 115.4 | 116.2 | 110.6 | 119.2 | 116.2 | 115.40 | - | | | |
| D.O. (mg/L) | 7.9 | 8.0 | 8.0 | 7.6 | 8.2 | 8.0 | 7.96 | 8.12 | | | |
| Turbidity (NTU) | 5.3 | 5.4 | 5.4 | 5.6 | 6.7 | 6.9 | 5.88 | - | | | |
| SS (mg/L) | 9.0 | 10.0 | 10.0 | 8.0 | 9.17 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | s | | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 16:46 | -16:48 | | | Northing | Easting | | |
| Water Depth (m) | | | 10 | | 22.21.566 | 113.54.130 | | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | | | | | | | |
| 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 | 23.5 | 23.5 | 23.37 | - | | |
| Salinity (ppt) | 36.0 | 36.0 | 36.3 | 36.3 | 37.2 | 37.2 | 36.51 | - | | |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.1 | 8.16 | | | |
| D.O. Saturation (%) | 120.0 | 122.4 | 114.8 | 111.7 | 117.9 | 116.2 | 117.17 | - | | |
| D.O. (mg/L) | 8.3 | 8.5 | 7.9 | 7.7 | 8.1 | 8.0 | 8.09 | 8.04 | | |
| Turbidity (NTU) | 5.6 | 5.1 | 7.1 | 7.5 | 9.3 | 9.4 | 7.33 | - | | |
| SS (mg/L) | 9.0 | 8.0 | 7.0 | 8.0 | 7.83 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | s | | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 16:57 | -16:59 | | | Northing | Easting | | |
| Water Depth (m) | | | 13 | | 22.21.345 | 113.54.959 | | | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .7 | 12 | 2.4 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 23.5 | 23.4 | 23.5 | 23.5 | 23.6 | 23.6 | 23.50 | - | | |
| Salinity (ppt) | 36.4 | 36.5 | 37.4 | 37.4 | 37.6 | 37.6 | 37.15 | - | | |
| pH | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.13 | | | |
| D.O. Saturation (%) | 107.4 | 105.4 | 103.3 | 99.8 | 104.0 | 108.0 | 104.65 | - | | |
| D.O. (mg/L) | 7.4 | 7.3 | 7.1 | 6.8 | 7.1 | 7.4 | 7.19 | 7.25 | | |
| Turbidity (NTU) | 6.4 | 6.3 | 6.2 | 6.3 | 6.7 | 6.4 | 6.38 | - | | |
| SS (mg/L) | 8.0 | 10.0 | 8.0 | 10.0 | 9.00 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

Station MPB1 Time (hh:mm) 16:26-16:27 Water Depth (m) 8.6 Monitoring Depth (m) 1.0 4.3 7.6 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 23.3 23.3 23.3 23.3 23.4 23.4 23.34 Salinity (ppt) 36.1 36.1 36.2 36.2 36.5 36.7 36.31 pН 8.2 8.2 8.2 8.2 8.1 8.1 8.16 D.O. Saturation (%) 111.6 114.4 105.9 110.2 110.5 105.6 109.70 7.3 7.2 D.O. (mg/L) 7.7 7.9 7.3 7.6 7.6 7.59 7.46 5.3 5.2 6.1 5.9 7.0 6.12 Turbidity (NTU) SS (mg/L) 8.0 7.0 6.0 6.0 8.0 6.0 6.83 Remarks Dredging works was observed.

| Station | | | | | | | | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | |
| 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) | 23.4 | 23.4 | 23.4 | 23.3 | 23.3 | 23.4 | 23.39 | - | | |
| Salinity (ppt) | 36.6 | 36.6 | 36.7 | 36.8 | 37.1 | 37.1 | 36.80 | - | | |
| pH | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.13 | | | |
| D.O. Saturation (%) | 112.0 | 112.9 | 108.0 | 108.1 | 111.5 | 109.6 | 110.35 | - | | |
| D.O. (mg/L) | 7.7 | 7.8 | 7.5 | 7.5 | 7.7 | 7.5 | 7.61 | 7.61 | | |
| Turbidity (NTU) | 6.3 | 6.5 | 7.4 | 7.0 | 7.1 | 6.8 | 6.85 | - | | |
| SS (mg/L) | 10.0 | 8.0 | 10.0 | 9.0 | 9.0 | 9.0 | 9.17 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Station | | | | | | | | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1.0 | | 2.9 | | 4 | .7 | | | | |
| 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 | 23.29 | - | | |
| Salinity (ppt) | 36.1 | 36.1 | - | - | 36.2 | 36.2 | 36.14 | - | | |
| pH | 8.2 | 8.2 | - | - | 8.2 | 8.2 | 8.17 | | | |
| D.O. Saturation (%) | 121.5 | 119.6 | - | - | 118.9 | 120.4 | 120.10 | - | | |
| D.O. (mg/L) | 8.4 | 8.3 | - | - | 8.2 | 8.3 | 8.32 | 8.29 | | |
| Turbidity (NTU) | 5.0 | 5.2 | - | - | 5.4 | 5.4 | 5.25 | - | | |
| SS (mg/L) | 8.0 | 7.0 | - | - | 7.0 | 7.0 | 7.25 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Compilation with Addoin and Elimit Level | | | | | | | | | | | | | | |
|--|--------|-----------------------------|--------|-------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | As in EM&A Mean(C1+C3)*130% | | IMO1 | | IMO2 | | | MPB1 | MPB2 | | MP | | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.1 | 7.1 | 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 | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.8 | 7.8 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.5 | 11.5 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/26/08 |
|-------------------------------|-----------|
| Weather & Ambient Temperature | Fine, 26C |

| Station | | | C2 (| NM5) | | | | |
|-----------------------|---------|---------|---------|--------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 19 | 9.1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 8.1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (℃) | 25.5 | 24.8 | 25.3 | 25.2 | 25.1 | 25.1 | 25.16 | - |
| Salinity (ppt) | 28.1 | 28.6 | 28.9 | 29.0 | 29.3 | 29.3 | 28.88 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 8.0 | 7.92 | |
| D.O. Saturation (%) | 91.6 | 94.2 | 94.2 | 92.6 | 94.1 | 91.7 | 93.07 | - |
| D.O. (mg/L) | 7.5 | 7.8 | 7.7 | 7.6 | 7.7 | 7.6 | 7.67 | 7.65 |
| Turbidity (NTU) | 5.6 | 5.6 | 9.2 | 9.7 | 10.3 | 10.2 | 8.43 | - |
| SS (mg/L) | 7.0 | 7.0 | 7.67 | - | | | | |
| Remarks | | | C | redging worl | ks was obse | rved. | | |

| Station | | | IM | 01 | | | Co-ord | dinates |
|------------------------|---------|---------|----------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | Northing | Easting | | | | |
| Water Depth (m) | | | 18 | 3.7 | | | 22.21.861 | 113.54.906 |
| Monitoring Depth (m) | 1 | .0 | 9 | .4 | 17 | 7.7 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 25.0 | 25.1 | 25.0 | 25.0 | 25.0 | 25.0 | 25.04 | - |
| Salinity (ppt) | 29.7 | 29.5 | 29.7 | 29.7 | 29.7 | 25.1 | 28.92 | - |
| рН | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.94 | |
| D.O. Saturation (%) | 92.4 | 92.6 | 90.3 | 93.4 | 93.7 | 95.5 | 92.98 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.4 | 7.7 | 7.7 | 8.08 | 7.68 | 7.89 |
| Turbidity (NTU) | 5.2 | 5.2 | 8.6 | 8.9 | 8.8 | 8.8 | 7.58 | - |
| SS (mg/L) | 6.0 | 8.0 | 8.17 | - | | | | |
| Remarks | | | C | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | linates |
|------------------------|---------|---------|---------|--------------|-------------|---------|--------------------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 19 | 9.8 | | | 22.21.594 | 113.55.559 |
| Monitoring Depth (m) | 1 | .0 | 9 | .9 | 18 | 8.8 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 25.1 | 25.2 | 25.0 | 25.0 | 25.0 | 25.0 | 25.06 | - |
| Salinity (ppt) | 29.5 | 29.5 | 29.7 | 29.8 | 29.9 | 29.8 | 29.72 | - |
| pH | 7.9 | 7.9 | 8.0 | 7.9 | 7.9 | 7.9 | 7.94 | |
| D.O. Saturation (%) | 91.3 | 91.5 | 91.6 | 93.2 | 93.8 | 92.9 | 92.38 | - |
| D.O. (mg/L) | 7.5 | 7.5 | 7.5 | 7.7 | 7.7 | 7.63 | 7.59 | 7.67 |
| Turbidity (NTU) | 5.0 | 5.0 | 7.0 | 7.2 | 8.0 | 7.7 | 6.65 | - |
| SS (mg/L) | 8.0 | 9.0 | 9.00 | - | | | | |
| Remarks | | | 0 | redging worl | ks was obse | rved. | | |

| Station | | | M | PB1 | | | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | | | | | | | | |
| Water Depth (m) | | | 8 | 3.1 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .1 | 7 | .1 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.32 | - | | |
| Salinity (ppt) | 28.5 | 28.6 | 29.1 | 28.5 | 28.5 | 28.5 | 28.59 | - | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.92 | | | |
| D.O. Saturation (%) | 92.7 | 92.3 | 93.1 | 92.0 | 91.9 | 92.5 | 92.42 | - | | |
| D.O. (mg/L) | 7.6 | 7.6 | 7.8 | 7.6 | 7.6 | 7.6 | 7.64 | 7.59 | | |
| Turbidity (NTU) | 7.3 | 7.5 | 7.5 | 7.4 | 7.7 | 8.0 | 7.57 | - | | |
| SS (mg/L) | 7.0 | 7.0 | 8.0 | 8.0 | 7.0 | 7.0 | 7.33 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | B2 | | |] | |
|------------------------|---------|---------|---------|-------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | | | | | | |
| 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- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.19 | - |
| Salinity (ppt) | 28.3 | 28.7 | 28.8 | 28.6 | 28.5 | 28.7 | 28.60 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.93 | |
| D.O. Saturation (%) | 93.7 | 92.9 | 92.6 | 92.9 | 93.5 | 93.0 | 93.10 | - |
| D.O. (mg/L) | 7.7 | 7.7 | 7.6 | 7.7 | 7.7 | 7.7 | 7.68 | 7.69 |
| Turbidity (NTU) | 8.5 | 8.7 | 8.8 | 8.2 | 8.7 | 8.7 | 8.60 | - |
| SS (mg/L) | 8.0 | 9.0 | 7.33 | - | | | | |
| Remarks | | | D | redging wor | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | |
|------------------------|---------|---------|---------|-------------|-------------|---------|--------------------|--------|
| Time (hh:mm) | | | | | | | | |
| Water Depth (m) | | | 5 | .7 | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | |
| 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 | 25.39 | - |
| Salinity (ppt) | 28.0 | 28.0 | - | - | 28.1 | 28.1 | 28.06 | - |
| pH | 7.9 | 7.9 | - | - | 7.9 | 7.9 | 7.88 | |
| D.O. Saturation (%) | 92.2 | 92.4 | - | - | 91.5 | 91.8 | 91.98 | - |
| D.O. (mg/L) | 7.6 | 7.6 | - | - | 7.5 | 7.6 | 7.58 | 7.56 |
| Turbidity (NTU) | 6.0 | 6.1 | - | - | 7.0 | 7.0 | 6.53 | - |
| SS (mg/L) | 11.0 | 10.0 | 10.0 | 9.75 | - | | | |
| Remarks | | | D | redging wor | ks was obse | rved. | | |

| Compliance with Action an | | | | | | | | | | | | | | |
|----------------------------|--------|-------|--------|---------|----------|---------------------|-----------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | C2*1 | C2*130% | | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan Exceedan E | | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.6 | 7.6 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.7 | 7.7 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 11.0 | 11.0 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.0 | 10.0 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/26/08 |
|-------------------------------|-----------|
| Weather & Ambient Temperature | Fine, 26C |

| Station | | | C1 (I | NM3) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 16:06 | | | | | |
| Water Depth (m) | | | 16 | 6.1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .1 | 15 | 5.1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 25.5 | 25.5 | 25.3 | 25.3 | 25.2 | 25.2 | 25.33 | - |
| Salinity (ppt) | 28.1 | 28.1 | 28.9 | 28.8 | 29.1 | 29.1 | 28.67 | - |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.91 | |
| D.O. Saturation (%) | 92.2 | 91.7 | 91.4 | 91.0 | 91.5 | 91.6 | 91.57 | - |
| D.O. (mg/L) | 7.6 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.53 | 7.53 |
| Turbidity (NTU) | 6.6 | 6.6 | 6.6 | 6.9 | 6.8 | 6.9 | 6.73 | - |
| SS (mg/L) | 8.0 | 10.0 | 9.0 | 10.0 | 9.00 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 17:28 | -17:29 | | | | |
| Water Depth (m) | | | 7 | .1 | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .6 | 6 | .1 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 | 25.11 | - |
| Salinity (ppt) | 29.0 | 28.8 | 28.8 | 29.0 | 29.0 | 28.8 | 28.89 | - |
| pH | 8.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.94 | |
| D.O. Saturation (%) | 96.9 | 98.0 | 98.9 | 96.9 | 100.6 | 96.9 | 98.03 | - |
| D.O. (mg/L) | 8.0 | 8.1 | 8.2 | 8.0 | 8.3 | 8.0 | 8.08 | 8.14 |
| Turbidity (NTU) | 7.1 | 7.0 | 7.4 | 7.4 | 8.0 | 7.9 | 7.47 | - |
| SS (mg/L) | 9.0 | 9.0 | 9.0 | 9.0 | 9.00 | - | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | 01 | | | Co-ordinate | S |
|-----------------------|---------|---------|---------|---------|--------------|--------------|----------------|------------|
| Time (hh:mm) | | | 16:29 | -16:31 | | Northing | Easting | |
| Water Depth (m) | | | 18 | 3.2 | | | 22.21.981 | 113.54.814 |
| Monitoring Depth (m) | 1 | .0 | 9 | .1 | 13 | 7.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 25.2 | 25.2 | 25.0 | 25.0 | 25.0 | 25.0 | 25.06 | - |
| Salinity (ppt) | 29.5 | 29.5 | 29.7 | 29.7 | 29.8 | 27.9 | 29.34 | - |
| pH | 7.9 | 7.9 | 8.0 | 7.9 | 8.0 | 7.9 | 7.94 | |
| D.O. Saturation (%) | 92.6 | 92.1 | 90.0 | 92.5 | 92.0 | 92.5 | 91.95 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.4 | 7.6 | 7.6 | 7.7 | 7.57 | 7.63 |
| Turbidity (NTU) | 6.4 | 6.4 | 9.9 | 9.3 | 9.4 | 9.8 | 8.53 | - |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 10.0 | 8.67 | - | | |
| Remarks | | | | Dredg | ging works w | as observed. | | |

| Station | | | IM | 02 | | | Co-ordinate | S | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 16:18 | -16:20 | | | Northing | Easting | | | |
| Water Depth (m) | | | 19 | 9.9 | | | 22.21.573 | 113.55.425 | | | |
| Monitoring Depth (m) | 1 | .0 | 10 | 0.0 | 18 | 3.9 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 25.1 | 25.2 | 25.0 | 25.0 | 25.0 | 25.0 | 25.05 | - | | | |
| Salinity (ppt) | 29.6 | 29.5 | 28.7 | 29.8 | 29.8 | 29.8 | 29.52 | - | | | |
| pH | 8.0 | 8.0 | 7.9 | 8.0 | 8.0 | 7.9 | 7.95 | | | | |
| D.O. Saturation (%) | 92.3 | 93.2 | 91.4 | 91.9 | 92.6 | 92.4 | 92.30 | - | | | |
| D.O. (mg/L) | 7.6 | 7.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.59 | 7.60 | | | |
| Turbidity (NTU) | 6.2 | 6.4 | 6.1 | 6.4 | 6.4 | 6.3 | 6.30 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 10.0 | 9.0 | 10.0 | 8.83 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

Station MPB1 Time (hh:mm) 16:56-16:58 Water Depth (m) 8.4 Monitoring Depth (m) 1.0 4.2 7.4 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 25.3 25.3 25.3 25.3 25.3 25.3 25.32 Salinity (ppt) 28.5 25.7 28.5 28.6 29.0 28.5 28.14 -7.9 7.9 7.9 7.9 7.9 7.9 pН 7.91 D.O. Saturation (%) 94.2 92.7 93.1 94.8 96.9 94.0 94.28 D.O. (mg/L) 7.8 7.8 7.7 7.8 8.0 7.7 7.78 7.85 Turbidity (NTU) 9.1 9.2 9.4 9.9 9.2 9.8 9.43 SS (mg/L) 10.0 9.0 10.0 9.0 9.0 9.0 9.33 Remarks Dredging works was observed.

| Station | | | MF | PB2 | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 17:06 | -17:08 | | | | | | | |
| Water Depth (m) | | | 8 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 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 | 25.19 | - | | | |
| Salinity (ppt) | 28.7 | 28.7 | 28.6 | 28.7 | 28.7 | 28.6 | 28.67 | - | | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.93 | | | | |
| D.O. Saturation (%) | 93.3 | 93.8 | 94.3 | 93.1 | 93.7 | 95.1 | 93.88 | - | | | |
| D.O. (mg/L) | 7.7 | 7.7 | 7.8 | 7.7 | 7.7 | 7.8 | 7.74 | 7.78 | | | |
| Turbidity (NTU) | 8.3 | 8.2 | 8.6 | 8.9 | 8.6 | 8.7 | 8.55 | - | | | |
| SS (mg/L) | 9.0 | 9.0 | 10.0 | 9.0 | 10.0 | 9.0 | 9.33 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | Ν | IP | | | | | | |
|------------------------|------------------------------|---------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 16:47 | -16:48 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | |
| 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 | 25.43 | - | | |
| Salinity (ppt) | 28.1 | 28.0 | - | - | 28.4 | 28.1 | 28.14 | - | | |
| pH | 7.9 | 7.9 | - | - | 7.8 | 7.9 | 7.86 | | | |
| D.O. Saturation (%) | 95.4 | 93.3 | - | - | 97.2 | 92.4 | 94.58 | - | | |
| D.O. (mg/L) | 7.9 | 7.7 | - | - | 8.0 | 7.6 | 7.79 | 7.80 | | |
| Turbidity (NTU) | 5.4 | 5.4 | - | - | 5.6 | 5.8 | 5.55 | - | | |
| SS (mg/L) | 8.0 | 8.0 | - | - | 10.0 | 10.0 | 9.00 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Compliance with Action a | | | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | -C3)*130% | IM | 101 | IMO2 | | MPB1 | | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.8 | 7.8 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.8 | 7.8 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.2 | 9.2 | N | N | Ν | Ν | Ν | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.7 | 11.7 | N | Ν | N | N | N | N | N | N | N | N |

| Sampling Date | 11/27/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 24C |

| Station | | | | 1 | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 13:06 | -13:08 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).2 | 19 | 9.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 23.8 | 23.8 | 23.6 | 23.6 | 23.6 | 23.5 | 23.63 | - | | | |
| Salinity (ppt) | 31.8 | 31.8 | 32.9 | 32.9 | 33.7 | 33.6 | 32.78 | - | | | |
| pН | 8.0 | 8.0 | 8.2 | 8.2 | 8.2 | 8.1 | 8.10 | | | | |
| D.O. Saturation (%) | 116.0 | 116.7 | 114.3 | 114.1 | 118.3 | 116.6 | 116.00 | - | | | |
| D.O. (mg/L) | 7.8 | 7.8 | 7.7 | 7.6 | 7.9 | 7.8 | 7.76 | 7.85 | | | |
| Turbidity (NTU) | 5.8 | 6.1 | 6.9 | 7.1 | 7.5 | 7.7 | 6.85 | - | | | |
| SS (mg/L) | 9.0 | 11.0 | 9.0 | 7.0 | 7.0 | 7.0 | 8.33 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ord | linates |
|-----------------------|---------|---------|---------|--------------|-------------|---------|----------|---------|
| Time (hh:mm) | | | 12:49 | -12:52 | | | Northing | Easting |
| Water Depth (m) | | | | 22.21.742 | 113.54.487 | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .5 | 16 | 6.0 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (℃) | 23.9 | 24.0 | 23.7 | 23.7 | 23.7 | 23.7 | 23.76 | - |
| Salinity (ppt) | 26.5 | 26.6 | 28.9 | 29.0 | 30.7 | 30.8 | 28.75 | - |
| рН | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.05 | |
| D.O. Saturation (%) | 97.7 | 97.4 | 100.8 | 100.5 | 104.4 | 103.7 | 100.75 | - |
| D.O. (mg/L) | 6.7 | 6.7 | 6.9 | 6.8 | 7.1 | 7.01 | 6.88 | 7.04 |
| Turbidity (NTU) | 5.4 | 5.4 | 6.5 | 6.6 | 8.1 | 7.6 | 6.60 | - |
| SS (mg/L) | 9.0 | 10.0 | 10.0 | 11.0 | 11.0 | 10.0 | 10.17 | - |
| Remarks | | - | D | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | dinates |
|------------------------|---------|---------|-----------|--------------|-------------|---------|--------------------|---------|
| Time (hh:mm) | | | 12:35 | -12:38 | | | Northing | Easting |
| Water Depth (m) | | | 22.21.340 | 113.55.137 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .1 | 15 | 5.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom |
| Water Temperature (°C) | 24.5 | 24.4 | 23.6 | 23.6 | 23.5 | 23.5 | 23.82 | - |
| Salinity (ppt) | 27.9 | 27.9 | 30.5 | 30.5 | 33.1 | 33.1 | 30.48 | - |
| pH | 8.1 | 8.0 | 8.2 | 8.2 | 8.2 | 8.2 | 8.15 | |
| D.O. Saturation (%) | 108.1 | 106.6 | 109.0 | 109.2 | 113.2 | 111.8 | 109.65 | - |
| D.O. (mg/L) | 7.3 | 7.2 | 7.4 | 7.4 | 7.6 | 7.50 | 7.41 | 7.56 |
| Turbidity (NTU) | 6.7 | 6.6 | 7.9 | 7.5 | 9.2 | 9.3 | 7.87 | - |
| SS (mg/L) | 9.0 | 11.0 | 9.17 | - | | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | M | PB1 | | | | | | | | | | | | |
|-----------------------|---------|---------|---------|--------------|-------------|---------|------------------------------|--------|--|--|--|--|--|--|--|--|
| Time (hh:mm) | | | 13:31 | -13:33 | | | | | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | 3.9 | 6 | .8 | | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | | | | | | |
| Water Temperature (℃) | 24.0 | 24.0 | 23.7 | 23.7 | 23.6 | 23.6 | 23.76 | - | | | | | | | | |
| Salinity (ppt) | 26.0 | 26.0 | 28.7 | 28.6 | 29.6 | 29.6 | 28.08 | - | | | | | | | | |
| pH | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.05 | | | | | | | | | |
| D.O. Saturation (%) | 99.1 | 99.1 | 98.7 | 98.0 | 100.8 | 101.3 | 99.50 | - | | | | | | | | |
| D.O. (mg/L) | 6.8 | 6.8 | 6.7 | 6.7 | 6.9 | 6.9 | 6.81 | 6.88 | | | | | | | | |
| Turbidity (NTU) | 4.8 | 4.7 | 5.8 | 5.5 | 6.1 | 6.2 | 5.52 | - | | | | | | | | |
| SS (mg/L) | 8.0 | 8.0 | 9.0 | 8.0 | 8.0 | 9.0 | 8.33 | - | | | | | | | | |
| Remarks | | | | Dredging wor | ks was obse | rved. | Dredging works was observed. | | | | | | | | | |

| Station | | | MP | 'B2 | | |] | |
|------------------------|---------|---------|---------------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | 13:43 | -13:46 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 Trial | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 24.0 | 24.0 | 23.7 | 23.7 | 23.7 | 23.7 | 23.76 | - |
| Salinity (ppt) | 26.3 | 26.5 | 29.1 | 29.1 | 29.5 | 29.5 | 28.34 | - |
| pH | 8.0 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 7.99 | |
| D.O. Saturation (%) | 97.1 | 98.9 | 97.7 | 96.7 | 100.6 | 98.2 | 98.20 | - |
| D.O. (mg/L) | 6.7 | 6.8 | 6.7 | 6.6 | 6.8 | 6.7 | 6.71 | 6.77 |
| Turbidity (NTU) | 5.3 | 5.1 | 5.7 | 5.5 | 6.5 | 6.2 | 5.72 | - |
| SS (mg/L) | 10.0 | 12.0 | 8.0 | 10.0 | 9.0 | 11.0 | 10.00 | - |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 13:21 | -13:23 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 24.0 | 24.0 | - | - | 23.7 | 23.7 | 23.84 | - | | | |
| Salinity (ppt) | 25.9 | 26.0 | - | - | 28.7 | 28.7 | 27.33 | - | | | |
| pH | 8.0 | 7.9 | - | - | 8.0 | 7.9 | 7.94 | | | | |
| D.O. Saturation (%) | 102.2 | 101.6 | - | - | 104.8 | 104.7 | 103.33 | - | | | |
| D.O. (mg/L) | 7.0 | 7.0 | - | - | 7.2 | 7.2 | 7.09 | 7.16 | | | |
| Turbidity (NTU) | 7.4 | 7.2 | - | - | 8.2 | 8.2 | 7.75 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | - | - | 10.0 | 8.0 | 8.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | C2*130% | | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|-------|-------------------------|-------|--------------------------|---------------------------|--------|-------------------------|--------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action | | Exceedanc e of Action | Exceedance of Limit Level | | Exceedan ce of Limit | | Exceedan ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.9 | 7.9 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.8 | 7.8 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.9 | 8.9 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.8 | 10.8 | N | N | N | N | N | N | N | N | N | N |

| Station | | | C1 (| NM3) | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 17:56 | -17:59 | | | | |
| Water Depth (m) | | | 16 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 23.6 | 23.6 | 23.5 | 23.5 | 23.5 | 23.5 | 23.53 | - |
| Salinity (ppt) | 32.8 | 32.8 | 33.3 | 33.2 | 33.6 | 33.6 | 33.19 | - |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.1 | 8.15 | |
| D.O. Saturation (%) | 112.9 | 113.6 | 111.4 | 112.5 | 112.2 | 115.2 | 112.97 | - |
| D.O. (mg/L) | 7.6 | 7.6 | 7.5 | 7.5 | 7.5 | 7.7 | 7.56 | 7.60 |
| Turbidity (NTU) | 5.6 | 5.8 | 6.2 | 6.3 | 6.9 | 6.8 | 6.27 | - |
| SS (mg/L) | 8.0 | 7.0 | 9.0 | 8.0 | 10.0 | 9.0 | 8.50 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (| NM6) | | | | |
|------------------------|---------|---------|---------|--------------|---------|---------|----------------|--------|
| Time (hh:mm) | | | 16:29 | -16:32 | | | | |
| Water Depth (m) | | | 6 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 24.2 | 24.2 | 23.9 | 23.8 | 23.4 | 23.4 | 23.81 | - |
| Salinity (ppt) | 27.2 | 27.2 | 29.1 | 29.0 | 31.9 | 31.9 | 29.39 | - |
| pН | 7.9 | 8.0 | 8.0 | 8.0 | 8.1 | 8.0 | 7.99 | |
| D.O. Saturation (%) | 107.5 | 107.6 | 109.3 | 109.7 | 111.3 | 110.7 | 109.35 | - |
| D.O. (mg/L) | 7.3 | 7.4 | 7.4 | 7.4 | 7.5 | 7.5 | 7.43 | 7.50 |
| Turbidity (NTU) | 4.7 | 4.6 | 5.9 | 5.8 | 6.5 | 6.7 | 5.70 | - |
| SS (mg/L) | 8.0 | 8.0 | 9.0 | 10.0 | 8.0 | 8.0 | 8.50 | - |
| Remarks | | | | as observed. | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 17:30 | -17:32 | | | Northing | Easting | |
| Water Depth (m) | | | 17 | | 22.21.749 | 113.54.484 | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .7 | 16 | 5.4 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 24.1 | 24.1 | 23.8 | 23.7 | 23.7 | 23.7 | 23.85 | - | |
| Salinity (ppt) | 27.0 | 27.0 | 30.7 | 30.9 | 31.7 | 31.9 | 29.84 | - | |
| pH | 8.0 | 8.0 | 8.1 | 8.2 | 8.1 | 8.2 | 8.11 | | |
| D.O. Saturation (%) | 102.0 | 102.4 | 104.8 | 104.5 | 106.6 | 106.8 | 104.52 | - | |
| D.O. (mg/L) | 7.0 | 7.1 | 7.1 | 7.1 | 7.2 | 7.2 | 7.11 | 7.21 | |
| Turbidity (NTU) | 6.5 | 6.8 | 8.4 | 8.2 | 8.9 | 9.0 | 7.97 | - | |
| SS (mg/L) | 8.0 | 9.0 | 8.0 | 10.0 | 9.0 | 9.0 | 8.83 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | S | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|----------------|------------|--|
| Time (hh:mm) | | | 17:42 | -17:45 | | | Northing | Easting | |
| Water Depth (m) | | | 16 | 6.0 | | | 22.21.344 | 113.55.145 | |
| Monitoring Depth (m) | 1 | .0 | 8 | .0 | 15 | 5.0 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 24.3 | 24.3 | 23.8 | 23.8 | 23.6 | 23.5 | 23.90 | - | |
| Salinity (ppt) | 28.4 | 28.3 | 31.5 | 31.4 | 33.4 | 33.4 | 31.07 | - | |
| pH | 8.0 | 8.0 | 8.1 | 8.1 | 8.2 | 8.1 | 8.07 | | |
| D.O. Saturation (%) | 107.9 | 106.8 | 109.3 | 108.0 | 112.4 | 112.1 | 109.42 | - | |
| D.O. (mg/L) | 7.3 | 7.2 | 7.4 | 7.3 | 7.5 | 7.5 | 7.39 | 7.52 | |
| Turbidity (NTU) | 5.5 | 5.8 | 6.5 | 6.3 | 7.4 | 7.2 | 6.45 | - | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 7.0 | 9.0 | 9.0 | 8.17 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

Station MPB1 Time (hh:mm) 16:56-16:58 Water Depth (m) 8.0 Monitoring Depth (m) 1.0 4.0 7.0 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 24.1 24.0 23.8 23.7 23.7 23.7 23.85 Salinity (ppt) 26.4 26.4 28.7 28.8 30.4 30.3 28.49 pH 8.0 8.0 8.1 8.1 8.1 8.1 8.03 D.O. Saturation (%) 103.6 102.7 102.7 104.0 106.1 104.7 103.97 D.O. (mg/L) 7.1 7.1 7.0 7.1 7.2 7.1 7.12 7.17 5.0 4.9 5.3 5.4 5.9 5.6 5.35 Turbidity (NTU) SS (mg/L) 8.0 9.0 9.0 9.0 7.0 9.0 8.50 Remarks Dredging works was observed.

| Station | | | MF | PB2 | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 16:45 | -16:47 | | | | | | | |
| Water Depth (m) | | | 9 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.1 | 24.1 | 23.8 | 23.8 | 23.8 | 23.8 | 23.87 | - | | | |
| Salinity (ppt) | 26.6 | 26.8 | 29.7 | 29.5 | 30.1 | 30.1 | 28.80 | - | | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 8.0 | 7.91 | | | | |
| D.O. Saturation (%) | 102.3 | 102.3 | 102.2 | 102.4 | 104.4 | 104.0 | 102.93 | - | | | |
| D.O. (mg/L) | 7.0 | 7.0 | 7.0 | 7.0 | 7.1 | 7.1 | 7.04 | 7.10 | | | |
| Turbidity (NTU) | 6.4 | 6.2 | 6.8 | 6.8 | 7.6 | 7.4 | 6.87 | - | | | |
| SS (mg/L) | 9.0 | 10.0 | 8.0 | 9.0 | 9.0 | 10.0 | 9.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | Ν | IP | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 17:06 | -17:08 | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 24.1 | 24.1 | - | - | 23.8 | 23.8 | 23.93 | - | | |
| Salinity (ppt) | 26.2 | 26.2 | - | - | 28.9 | 28.8 | 27.51 | - | | |
| pH | 8.0 | 8.0 | - | - | 8.0 | 8.0 | 7.99 | | | |
| D.O. Saturation (%) | 101.3 | 99.9 | - | - | 103.7 | 105.1 | 102.50 | - | | |
| D.O. (mg/L) | 7.0 | 6.9 | - | - | 7.1 | 7.2 | 7.03 | 7.14 | | |
| Turbidity (NTU) | 5.9 | 6.2 | - | - | 6.6 | 6.8 | 6.38 | - | | |
| SS (mg/L) | 8.0 | 6.0 | - | - | 9.0 | 9.0 | 8.00 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Compliance with Action a | | C. | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MF | PB2 | M | iP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.5 | 7.5 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 7.5 | 7.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.8 | 7.8 | N | N | Ν | Ν | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.1 | 11.1 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/28/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | | 1 | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 19 | 9.2 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 9 | .6 | 18 | 8.2 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (℃) | 23.9 | 23.9 | 23.2 | 23.2 | 22.6 | 22.6 | 23.22 | - | |
| Salinity (ppt) | 26.4 | 26.3 | 28.9 | 28.9 | 30.9 | 30.8 | 28.68 | - | |
| pН | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.59 | | |
| D.O. Saturation (%) | 85.0 | 84.2 | 77.1 | 76.1 | 74.5 | 73.6 | 78.42 | - | |
| D.O. (mg/L) | 5.7 | 5.7 | 5.2 | 5.1 | 5.0 | 4.9 | 5.25 | 4.94 | |
| Turbidity (NTU) | 5.7 | 5.7 | 7.3 | 7.0 | 8.2 | 8.5 | 7.07 | - | |
| SS (mg/L) | 6.0 | 7.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.17 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | IM | 01 | | | Co-ore | dinates |
|------------------------|---------|---------|---------|--------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | | Northing | Easting | | | |
| Water Depth (m) | | | 10 |).4 | | | 22.21.409 | 113.53.299 |
| Monitoring Depth (m) | 1 | .0 | 5 | .2 | 9 | .4 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.7 | 23.8 | 23.3 | 23.3 | 22.9 | 23.0 | 23.31 | - |
| Salinity (ppt) | 22.9 | 22.7 | 28.1 | 28.2 | 29.4 | 29.3 | 26.76 | - |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.59 | |
| D.O. Saturation (%) | 81.7 | 82.7 | 75.1 | 74.7 | 73.8 | 74.2 | 77.03 | - |
| D.O. (mg/L) | 5.6 | 5.7 | 5.0 | 5.0 | 4.9 | 4.96 | 5.20 | 4.95 |
| Turbidity (NTU) | 6.3 | 6.3 | 7.7 | 7.5 | 8.5 | 8.5 | 7.47 | - |
| SS (mg/L) | 8.0 | 7.0 | 6.0 | 7.0 | 7.0 | 7.0 | 7.00 | - |
| Remarks | | | C | redging worl | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ore | dinates | |
|------------------------|---------|------------------------------|---------|----------|---------|---------|--------------------|------------|--|
| Time (hh:mm) | | | | Northing | Easting | | | | |
| Water Depth (m) | | | 9 | .6 | | | 22.21.139 | 113.53.855 | |
| Monitoring Depth (m) | 1 | .0 | 4 | .8 | 8 | .6 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | |
| Water Temperature (°C) | 23.7 | 23.7 | 23.3 | 23.2 | 22.9 | 22.9 | 23.27 | - | |
| Salinity (ppt) | 24.3 | 24.2 | 28.1 | 28.3 | 29.9 | 29.5 | 27.39 | - | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.61 | | |
| D.O. Saturation (%) | 81.9 | 58.5 | 75.9 | 74.8 | 74.5 | 73.7 | 73.22 | - | |
| D.O. (mg/L) | 5.6 | 5.7 | 5.1 | 5.0 | 5.0 | 4.93 | 5.21 | 4.96 | |
| Turbidity (NTU) | 6.6 | 6.6 | 7.7 | 7.5 | 8.9 | 8.8 | 7.68 | - | |
| SS (mg/L) | 8.0 | 8.0 | 7.0 | 8.0 | 8.0 | 8.0 | 7.83 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | M | PB1 | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 8 | 3.4 | | | | | |
| 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 (℃) | 23.9 | 23.9 | 23.3 | 23.3 | 23.2 | 23.2 | 23.48 | - | |
| Salinity (ppt) | 19.7 | 19.4 | 25.1 | 25.3 | 27.4 | 27.0 | 24.01 | - | |
| pH | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.51 | | |
| D.O. Saturation (%) | 82.2 | 81.8 | 74.3 | 74.3 | 75.5 | 75.0 | 77.18 | - | |
| D.O. (mg/L) | 5.7 | 5.7 | 5.1 | 5.0 | 5.1 | 5.1 | 5.27 | 5.08 | |
| Turbidity (NTU) | 5.9 | 6.1 | 6.5 | 6.5 | 6.8 | 6.9 | 6.45 | - | |
| SS (mg/L) | 6.0 | 8.0 | 6.0 | 8.0 | 7.0 | 8.0 | 7.17 | - | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | MF | 'B2 | | |] | | | | | |
|------------------------|---------|--------------------------------|---------|---------|---------|---------|----------|--------|--|--|--|--|
| Time (hh:mm) | | | 13:46 | -13:50 | | | | | | | | |
| Water Depth (m) | | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .6 | 8 | .2 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | | |
| | | | | | | | averaged | | | | | |
| Water Temperature (°C) | 24.1 | 24.1 | 23.68 | - | | | | | | | | |
| Salinity (ppt) | 17.9 | 19.4 | 25.4 | 23.6 | 26.5 | 27.2 | 23.32 | - | | | | |
| pH | 7.6 | 7.5 | 7.6 | 7.6 | 7.6 | 7.6 | 7.57 | | | | | |
| D.O. Saturation (%) | 85.0 | 85.2 | 78.2 | 77.1 | 76.9 | 77.8 | 80.03 | - | | | | |
| D.O. (mg/L) | 5.9 | 5.9 | 5.3 | 5.3 | 5.2 | 5.2 | 5.47 | 5.21 | | | | |
| Turbidity (NTU) | 6.5 | 6.5 6.5 7.0 7.0 7.7 7.6 7.05 - | | | | | | | | | | |
| SS (mg/L) | 7.0 | 7.0 7.0 8.0 8.0 8.0 7.0 7.50 - | | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | | | | | | | | | |
| Water Depth (m) | | | 5 | .7 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .9 | 4 | .7 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 23.8 | 23.8 | 23.53 | - | | | | | | | |
| Salinity (ppt) | 20.0 | 20.1 | - | - | 25.5 | 24.9 | 22.63 | - | | | |
| pH | 7.5 | 7.5 | - | - | 7.5 | 7.4 | 7.46 | | | | |
| D.O. Saturation (%) | 81.3 | 80.2 | - | - | 76.8 | 76.8 | 78.78 | - | | | |
| D.O. (mg/L) | 5.6 | 5.6 | - | - | 5.2 | 5.2 | 5.42 | 5.23 | | | |
| Turbidity (NTU) | 8.3 | 8.3 8.4 9.4 9.4 8.88 - | | | | | | | | | |
| SS (mg/L) | 6.0 | 6.0 5.0 6.0 6.0 5.75 - | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | 30% | IM | 01 | IM | 02 | | MPB1 | MF | 'B2 | N | IP |
|----------------------------|-----------------|----------------|-----------------|----------------|--------|-------|-------------------------|-------|--------------------------|---------------------------|--------|-------------------------|--------|-------------------------|
| | Action Level | Limit Level | Action Level | Limit Level | | | Exceedance of Action | | Exceedanc e of Action | Exceedance of Limit Level | | Exceedan ce of Limit | | Exceedan ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | 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 | 5.2 | 5.2 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.2 | 9.2 | 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 |

| Sampling Date | 11/28/2008 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 25C |

| Station | | | C1 (| NM3) | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|
| Time (hh:mm) | | | 17:56 | -17:58 | | | | | | |
| Water Depth (m) | | | 16 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 23.9 | 23.9 | 23.6 | 23.4 | 23.0 | 22.9 | 23.45 | - | | |
| Salinity (ppt) | 26.6 | 26.5 | 28.2 | 28.6 | 30.1 | 30.3 | 28.39 | - | | |
| pH | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.58 | | | |
| D.O. Saturation (%) | 85.4 | 84.6 | 77.6 | 77.5 | 75.9 | 76.5 | 79.58 | - | | |
| D.O. (mg/L) | 5.7 | 5.7 | 5.2 | 5.2 | 5.1 | 5.1 | 5.33 | 5.10 | | |
| Turbidity (NTU) | 5.6 | 5.5 | 7.1 | 7.08 | - | | | | | |
| SS (mg/L) | 7.0 | 8.0 | 8.0 | 7.33 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | C3 (I | NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 16:33 | -16:34 | | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .4 | 5 | .8 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 24.2 | 24.2 | 23.9 | 23.9 | 23.4 | 23.6 | 23.86 | - | | | |
| Salinity (ppt) | 18.2 | 18.3 | 23.2 | 22.88 | - | | | | | | |
| pH | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.53 | | | | |
| D.O. Saturation (%) | 86.6 | 86.5 | 81.1 | 80.4 | 77.9 | 80.1 | 82.10 | - | | | |
| D.O. (mg/L) | 6.0 | 6.0 | 5.6 | 5.5 | 5.2 | 5.4 | 5.63 | 5.31 | | | |
| Turbidity (NTU) | 6.3 | 6.2 | 6.6 | 7.2 | 6.67 | - | | | | | |
| SS (mg/L) | 5.0 | 5.0 7.0 5.0 5.0 5.0 6.0 5.50 | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | es | |
|-----------------------|---------|-------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 17:01 | -17:03 | | | Northing | Easting | |
| Water Depth (m) | | | 10 | | 22.21.417 | 113.53.292 | | | |
| Monitoring Depth (m) | 1 | .0 | 5 | .0 | 9 | .0 | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (℃) | 23.9 | 24.2 | 23.6 | 23.6 | 23.2 | 23.2 | 23.61 | - | |
| Salinity (ppt) | 23.3 | 23.3 23.7 27.9 27.8 29.0 29.1 | | | | | 26.80 | - | |
| pH | 7.5 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.57 | | |
| D.O. Saturation (%) | 82.0 | 81.9 | 75.8 | 76.0 | 75.4 | 74.9 | 77.67 | - | |
| D.O. (mg/L) | 5.6 | 5.6 | 5.1 | 5.1 | 5.1 | 5.0 | 5.23 | 5.03 | |
| Turbidity (NTU) | 6.1 | 6.4 | 6.9 | 7.20 | - | | | | |
| SS (mg/L) | 5.0 | 5.0 | 6.0 | 5.67 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | s | |
|-----------------------|---------|-------------------------------|---------|---------|-----------|------------|----------------|---------|--|
| Time (hh:mm) | | | 16:49 | -16:51 | | | Northing | Easting | |
| Water Depth (m) | | | 9 | | 22.21.146 | 113.53.848 | | | |
| 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 (℃) | 23.9 | 23.9 | 23.5 | 23.5 | 23.1 | 23.1 | 23.48 | - | |
| Salinity (ppt) | 23.6 | 23.6 24.0 27.7 27.8 29.8 29.7 | | | | | 27.09 | - | |
| pH | 7.5 | 7.5 | 7.6 | 7.6 | 7.6 | 7.5 | 7.55 | | |
| D.O. Saturation (%) | 82.6 | 82.2 | 75.0 | 74.5 | 72.7 | 73.3 | 76.72 | - | |
| D.O. (mg/L) | 5.7 | 5.6 | 5.0 | 5.0 | 4.9 | 4.9 | 5.18 | 4.88 | |
| Turbidity (NTU) | 6.8 | 6.7 | 7.7 | 7.80 | - | | | | |
| SS (mg/L) | 5.0 | 4.0 | 6.0 | 6.0 | 5.67 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | |

Station MPB1 Time (hh:mm) 17:27-17:29 Water Depth (m) 8.4 Monitoring Depth (m) 1.0 4.2 7.4 Bottom Trial Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 Depth-averaged Water Temperature (°C) 24.2 24.1 23.6 23.6 23.4 23.4 23.71 Salinity (ppt) 18.2 18.8 25.1 24.7 27.9 28.3 23.84 pН 7.5 7.5 7.5 7.5 7.50 7.5 7.5 D.O. Saturation (%) 81.3 81.9 75.5 75.8 76.4 76.1 77.83 D.O. (mg/L) 5.7 5.7 5.1 5.2 5.1 5.1 5.32 5.12 6.5 6.5 7.1 7.1 7.4 7.6 7.03 Turbidity (NTU) SS (mg/L) 7.0 6.0 8.0 6.0 9.0 7.0 7.17 Remarks Dredging works was observed.

| Station | | | MP | PB2 | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 17:41 | -17:43 | | | | | |
| Water Depth (m) | | | 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) | 24.2 | 24.3 | 23.9 | 23.8 | 23.5 | 23.5 | 23.86 | - | |
| Salinity (ppt) | 17.1 | 17.1 | 23.7 | 24.7 | 27.2 | 27.3 | 22.85 | - | |
| pH | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.52 | | |
| D.O. Saturation (%) | 83.8 | 83.6 | 78.7 | 78.6 | 77.5 | 77.5 | 79.95 | - | |
| D.O. (mg/L) | 5.9 | 5.9 | 5.4 | 5.3 | 5.2 | 5.2 | 5.48 | 5.21 | |
| Turbidity (NTU) | 6.6 | 6.6 | 7.4 | 7.8 | 7.30 | - | | | |
| SS (mg/L) | 7.0 | 6.0 | 6.00 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Station | | | N | IP | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|
| Time (hh:mm) | | | 17:15 | -17:16 | | | | | |
| Water Depth (m) | | | 5 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | |
| Water Temperature (°C) | 23.9 | 23.9 | - | - | 23.4 | 23.4 | 23.67 | - | |
| Salinity (ppt) | 20.2 | 20.0 | - | - | 25.6 | 25.8 | 22.93 | - | |
| pH | 7.4 | 7.5 | - | - | 7.5 | 7.5 | 7.46 | | |
| D.O. Saturation (%) | 79.7 | 79.3 | - | - | 76.0 | 75.3 | 77.58 | - | |
| D.O. (mg/L) | 5.5 | 5.5 | - | - | 5.2 | 5.1 | 5.33 | 5.14 | |
| Turbidity (NTU) | 6.5 | 6.5 | 6.88 | - | | | | | |
| SS (mg/L) | 6.0 | 6.0 | 8.00 | - | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | |

| Compliance with Action a | | 0. | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | | MPB1 | MF | PB2 | M | IP |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 5.2 | 5.2 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 5.5 | 5.5 | Ν | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 8.9 | 8.9 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 8.3 | 8.3 | N | Ν | N | Ν | N | N | N | N | N | Ν |

| Sampling Date | 11/29/08 |
|-------------------------------|-------------|
| Weather & Ambient Temperature | Cloudy, 24C |

| Station | | | | 1 | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 14:15 | -14:18 | | | | | | |
| Water Depth (m) | | | 2 | 0.8 | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 10 |).4 | 19 | 9.8 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (℃) | 23.2 | 23.2 | 22.7 | 22.6 | 22.4 | 22.4 | 22.75 | - | | |
| Salinity (ppt) | 24.2 | 24.2 | 29.3 | 29.4 | 30.5 | 30.5 | 28.02 | - | | |
| pН | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.06 | | | |
| D.O. Saturation (%) | 96.6 | 95.5 | 92.9 | 91.7 | 96.1 | 95.9 | 94.78 | - | | |
| D.O. (mg/L) | 6.7 | 6.6 | 6.3 | 6.2 | 6.5 | 6.5 | 6.44 | 6.46 | | |
| Turbidity (NTU) | 6.6 | 6.5 | 7.4 | 7.2 | 8.8 | 8.5 | 7.50 | - | | |
| SS (mg/L) | 7.0 | 9.0 | 8.33 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | | Co-ordinates | | | | | | | |
|------------------------|---------------------|------------------------------|---------|--------------|---------|---------|-----------|------------|--|--|--|
| Time (hh:mm) | | | 14:00 | -14:03 | | | Northing | Easting | | | |
| Water Depth (m) | | | 15 | 5.4 | | | 22.22.070 | 113.55.103 | | | |
| Monitoring Depth (m) | 1 | .0 | 7 | .7 | 14 | 1.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | | |
| | | | | | | | averaged | | | | |
| Water Temperature (°C) | 23.5 | 23.5 | 22.2 | 22.2 | 22.0 | 22.0 | 22.56 | - | | | |
| Salinity (ppt) | 30.4 | 30.3 | 31.5 | 31.5 | 31.9 | 32.0 | 31.27 | - | | | |
| pН | 8.1 | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 | 8.13 | | | | |
| D.O. Saturation (%) | 95.9 | 95.1 | 89.3 | 87.7 | 90.8 | 91.3 | 91.68 | - | | | |
| D.O. (mg/L) | 6.4 | 6.4 | 5.9 | 5.9 | 6.1 | 6.13 | 6.12 | 6.12 | | | |
| Turbidity (NTU) | 7.7 | 7.5 | 8.4 | 8.3 | 9.5 | 9.6 | 8.50 | - | | | |
| SS (mg/L) | 9.0 9.0 8.0 8.0 9.0 | | | | | | | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 02 | | | Co-ord | dinates | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|------------|--|--|
| Time (hh:mm) | | | 13:49 | -13:51 | | | Northing | Easting | | |
| Water Depth (m) | | | 1: | 3.2 | | | 22.21.758 | 113.55.494 | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .6 | 1: | 2.2 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | |
| Water Temperature (°C) | 22.9 | 22.9 | 22.1 | 22.1 | 21.9 | 21.9 | 22.32 | - | | |
| Salinity (ppt) | 31.0 | 31.0 | 31.9 | 31.9 | 32.2 | 32.1 | 31.67 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.0 | 8.1 | 8.07 | | | |
| D.O. Saturation (%) | 96.4 | 97.3 | 94.9 | 93.8 | 96.1 | 94.3 | 95.47 | - | | |
| D.O. (mg/L) | 6.4 | 6.5 | 6.4 | 6.3 | 6.5 | 6.44 | 6.42 | 6.46 | | |
| Turbidity (NTU) | 8.4 | 8.5 | 9.4 | 9.2 | 10.0 | 9.9 | 9.23 | - | | |
| SS (mg/L) | 9.0 | 9.0 | 8.83 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB1 | | | | | |
|-----------------------|------------------------------|---|------|------|------|------|-------|------|--|
| Time (hh:mm) | | | | | | | | | |
| Water Depth (m) | | | 7 | .6 | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3 | .8 | 6 | .6 | | | |
| Trial | Trial 1 | Trial 1 Trial 2 Trial 1 Trial 2 Trial 1 Trial 2 | | | | | | | |
| Water Temperature (℃) | 23.5 | 23.4 | 23.1 | 23.1 | 22.8 | 22.9 | 23.13 | - | |
| Salinity (ppt) | 24.0 | 23.9 | 26.4 | 26.4 | 28.1 | 28.1 | 26.17 | - | |
| pH | 8.0 | 8.0 | 8.1 | 8.0 | 8.1 | 8.1 | 8.04 | | |
| D.O. Saturation (%) | 98.5 | 97.1 | 96.5 | 97.3 | 99.9 | 99.7 | 98.17 | - | |
| D.O. (mg/L) | 6.8 | 6.7 | 6.6 | 6.6 | 6.8 | 6.8 | 6.70 | 6.77 | |
| Turbidity (NTU) | 6.8 | 6.5 | 7.6 | 7.5 | 8.3 | 8.2 | 7.48 | - | |
| SS (mg/L) | 10.0 | 9.0 | 10.0 | 9.0 | 10.0 | 9.0 | 9.50 | - | |
| Remarks | Dredging works was observed. | | | | | | | | |

| Station | | | MF | 'B2 | | |] | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------|--------|--|--|
| Time (hh:mm) | | | 14:51 | -14:53 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .5 | 8 | .0 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom | | |
| | | | | | | | averaged | | | |
| Water Temperature (°C) | 23.4 | 23.4 | 23.1 | 23.1 | 23.0 | 23.0 | 23.20 | - | | |
| Salinity (ppt) | 24.3 | 24.4 | 26.7 | 26.6 | 27.1 | 26.9 | 25.99 | - | | |
| pH | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.1 | 8.06 | | | |
| D.O. Saturation (%) | 98.5 | 98.3 | 99.6 | 99.2 | 101.6 | 100.4 | 99.60 | - | | |
| D.O. (mg/L) | 6.8 | 6.7 | 6.8 | 6.8 | 6.9 | 6.8 | 6.79 | 6.88 | | |
| Turbidity (NTU) | 6.7 | 6.8 | 7.1 | 7.2 | 7.6 | 7.9 | 7.22 | - | | |
| SS (mg/L) | 11.0 | 12.0 | 9.83 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 14:30 | -14:31 | | | | | | | |
| 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) | 23.4 | 23.4 | - | - | 23.1 | 23.0 | 23.22 | - | | | |
| Salinity (ppt) | 25.6 | 25.5 | - | - | 26.7 | 26.6 | 26.08 | - | | | |
| pH | 8.1 | 8.0 | - | - | 8.1 | 8.1 | 8.06 | | | | |
| D.O. Saturation (%) | 105.1 | 106.2 | - | - | 107.9 | 108.4 | 106.90 | - | | | |
| D.O. (mg/L) | 7.2 | 7.2 | - | - | 7.3 | 7.4 | 7.29 | 7.35 | | | |
| Turbidity (NTU) | 6.7 | 6.4 | - | - | 7.5 | 7.6 | 7.05 | - | | | |
| SS (mg/L) | 11.0 | 11.0 9.0 11.0 10.0 10. | | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Compliance with Action and Limit Level | | | | | | | | | | | | | | |
|--|--------|-------|--------|--------------|----------|---------------------|-----------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | C2*1 | C2*130% IMO1 | | IMO2 | | | MPB1 | MF | MPB2 | | IP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan Exceedan F | | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.5 | 6.5 | 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 | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.8 | 9.8 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 10.8 | 10.8 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/29/08 |
|-------------------------------|-------------|
| Weather & Ambient Temperature | Cloudy, 24C |

| Station | | | C1 (| NM3) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 19:05 | | | | | | | | |
| Water Depth (m) | | | 16 | 5.4 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .2 | 15 | 5.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 22.6 | 22.6 | 21.9 | 21.8 | 21.8 | 21.8 | 22.07 | - | | | |
| Salinity (ppt) | 31.5 | 31.4 | 32.4 | 32.4 | 32.6 | 32.6 | 32.16 | - | | | |
| pH | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.90 | | | | |
| D.O. Saturation (%) | 97.5 | 97.1 | 91.1 | 93.0 | 99.1 | 98.2 | 96.00 | - | | | |
| D.O. (mg/L) | 6.5 | 6.5 | 6.1 | 6.3 | 6.7 | 6.6 | 6.44 | 6.65 | | | |
| Turbidity (NTU) | 7.1 | 7.0 | 7.5 | 7.7 | 8.5 | 8.4 | 7.70 | - | | | |
| SS (mg/L) | 8.0 | 8.0 | 8.0 | 8.0 | 9.0 | 8.0 | 8.17 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | C3 (| NM6) | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 17:42 | | | | | | | | |
| Water Depth (m) | | | 6 | | | | | | | | |
| 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) | 23.2 | 23.1 | 22.6 | 22.6 | 22.6 | 22.5 | 22.78 | - | | | |
| Salinity (ppt) | 27.4 | 27.4 | 29.0 | 28.9 | 29.3 | 29.2 | 28.52 | - | | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.09 | | | | |
| D.O. Saturation (%) | 97.1 | 96.0 | 95.5 | 95.4 | 98.6 | 98.0 | 96.77 | - | | | |
| D.O. (mg/L) | 6.6 | 6.5 | 6.5 | 6.5 | 6.7 | 6.6 | 6.55 | 6.65 | | | |
| Turbidity (NTU) | 5.7 | 5.9 | 6.4 | 6.5 | 6.8 | 6.9 | 6.37 | - | | | |
| SS (mg/L) | 9.0 | 8.0 | 11.0 | 13.0 | 8.0 | 8.0 | 9.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ordinate | S | | |
|------------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 18:40 | -18:42 | | | Northing | Easting | | |
| Water Depth (m) | | | 15 | | 22.21.762 | 113.55.097 | | | | |
| Monitoring Depth (m) | 1 | .0 | 7 | .8 | 14 | 4.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (°C) | 22.9 | 22.9 | 22.5 | 22.5 | 21.9 | 22.0 | 22.43 | - | | |
| Salinity (ppt) | 30.1 | 30.0 | 31.5 | 31.5 | 32.1 | 32.0 | 31.17 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.12 | | | |
| D.O. Saturation (%) | 93.9 | 92.2 | 85.6 | 86.2 | 91.3 | 90.8 | 90.00 | - | | |
| D.O. (mg/L) | 6.3 | 6.2 | 5.7 | 5.7 | 6.1 | 6.1 | 6.01 | 6.12 | | |
| Turbidity (NTU) | 7.2 | 6.9 | 7.7 | 7.9 | 8.5 | 8.6 | 7.80 | - | | |
| SS (mg/L) | 7.0 | 7.0 | 8.0 | 7.0 | 7.83 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | IM | 02 | | | Co-ordinate | s | | |
|-----------------------|---------|------------------------------|---------|---------|-----------|------------|----------------|---------|--|--|
| Time (hh:mm) | | | 18:52 | -18:54 | | | Northing | Easting | | |
| Water Depth (m) | | | 13 | | 22.21.754 | 113.55.483 | | | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .8 | 12 | 2.6 | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | |
| Water Temperature (℃) | 22.7 | 22.7 | 22.0 | 22.0 | 21.8 | 21.8 | 22.18 | - | | |
| Salinity (ppt) | 29.7 | 29.6 | 31.4 | 31.4 | 32.0 | 32.1 | 31.03 | - | | |
| pH | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.07 | | | |
| D.O. Saturation (%) | 93.6 | 92.4 | 90.7 | 90.6 | 91.9 | 92.9 | 92.02 | - | | |
| D.O. (mg/L) | 6.2 | 6.2 | 6.1 | 6.1 | 6.2 | 6.2 | 6.18 | 6.22 | | |
| Turbidity (NTU) | 7.8 | 7.6 | 8.6 | 8.4 | 9.5 | 9.4 | 8.55 | - | | |
| SS (mg/L) | 10.0 | 8.0 | 7.0 | 7.0 | 7.0 | 8.0 | 7.83 | - | | |
| Remarks | | Dredging works was observed. | | | | | | | | |

| Station | | | MF | PB1 | | | | |
|------------------------|---------|---------|---------|---------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 18:07 | -18:09 | | | | |
| Water Depth (m) | | | 8 | .3 | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (°C) | 23.3 | 23.3 | 23.0 | 22.9 | 22.8 | 22.8 | 23.00 | - |
| Salinity (ppt) | 24.1 | 24.3 | 26.4 | 26.5 | 27.8 | 28.0 | 26.17 | - |
| pН | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.1 | 8.05 | |
| D.O. Saturation (%) | 97.7 | 97.3 | 96.4 | 96.8 | 98.7 | 99.9 | 97.80 | - |
| D.O. (mg/L) | 6.7 | 6.7 | 6.6 | 6.6 | 6.7 | 6.8 | 6.68 | 6.75 |
| Turbidity (NTU) | 7.3 | 7.1 | 7.9 | 8.1 | 8.6 | 8.4 | 7.90 | - |
| SS (mg/L) | 11.0 | 9.0 | 11.0 | 11.0 | 9.0 | 8.0 | 9.83 | - |
| Remarks | | | | Dredgin | g works was | observed. | | |

| Station | | | MF | PB2 | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 17:56 | -17:58 | | | | | | | | |
| Water Depth (m) | | | 9 | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 4 | .2 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | | |
| Water Temperature (°C) | 23.2 | 23.2 | 23.1 | 23.1 | 23.1 | 23.1 | 23.16 | - | | | | |
| Salinity (ppt) | 24.6 | 24.5 | 25.2 | 25.2 | 25.3 | 25.2 | 25.01 | - | | | | |
| pH | 8.0 | 8.0 | 8.0 | 8.0 | 8.1 | 8.1 | 8.05 | | | | | |
| D.O. Saturation (%) | 98.4 | 98.0 | 99.2 | 99.1 | 99.7 | 99.4 | 98.97 | - | | | | |
| D.O. (mg/L) | 6.7 | 6.7 | 6.8 | 6.8 | 6.8 | 6.8 | 6.76 | 6.80 | | | | |
| Turbidity (NTU) | 6.5 | 6.4 | 6.9 | 7.1 | 8.0 | 8.2 | 7.18 | - | | | | |
| SS (mg/L) | 9.0 | 7.0 | 9.0 | 10.0 | 9.0 | 10.0 | 9.00 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Station | | | N | IP | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|
| Time (hh:mm) | | | 18:18 | -18:19 | | | | | | | |
| Water Depth (m) | | | 5 | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 2 | .6 | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (°C) | 23.2 | 23.2 | - | - | 22.9 | 22.8 | 23.02 | - | | | |
| Salinity (ppt) | 25.9 | 25.9 | - | - | 27.3 | 27.4 | 26.62 | - | | | |
| pH | 8.1 | 8.1 | - | - | 8.1 | 8.1 | 8.07 | | | | |
| D.O. Saturation (%) | 104.7 | 105.8 | - | - | 106.4 | 106.1 | 105.75 | - | | | |
| D.O. (mg/L) | 7.1 | 7.2 | - | - | 7.2 | 7.2 | 7.19 | 7.22 | | | |
| Turbidity (NTU) | 5.2 | 4.9 | - | - | 6.3 | 6.1 | 5.63 | - | | | |
| SS (mg/L) | 10.0 | 9.0 | - | - | 10.0 | 11.0 | 10.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| compliance with Action an | | e | | | | | | | | | | | | |
|----------------------------|--------|-------|----------|-----------|----------|-------------|----------------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| Parameter | As in | EM&A | Mean(C1+ | +C3)*130% | IM | 101 | IMO2 | | MPB1 | | MPB2 | | MP | |
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.6 | 6.6 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.5 | 6.5 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 9.1 | 9.1 | N | N | Ν | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 11.5 | 11.5 | N | Ν | N | N | N | N | N | N | Ν | N |

| Sampling Date | 11/30/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 23C |

| Station | | | |] | | | | | | | |
|-----------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 9:49 | -9:52 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | 3.4 | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (℃) | 23.0 | 23.0 | 22.5 | 22.4 | 22.2 | 22.2 | 22.56 | - | | | |
| Salinity (ppt) | 26.4 | 26.4 | 31.5 | 31.6 | 32.7 | 32.7 | 30.23 | - | | | |
| pН | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.17 | | | | |
| D.O. Saturation (%) | 101.3 | 100.2 | 97.6 | 96.4 | 100.4 | 100.6 | 99.42 | - | | | |
| D.O. (mg/L) | 7.1 | 7.0 | 6.7 | 6.6 | 6.9 | 6.9 | 6.84 | 6.86 | | | |
| Turbidity (NTU) | 4.8 | 4.7 | 5.4 | 5.3 | 5.9 | 5.8 | 5.32 | - | | | |
| SS (mg/L) | 10.0 | 9.0 | 10.0 | 10.0 | 10.0 | 11.0 | 10.00 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | IM | 01 | | | Co-ore | dinates |
|------------------------|---------|---------|---------|-------------|-------------|---------|-----------|------------|
| Time (hh:mm) | | | 9:35 | -9:37 | | | Northing | Easting |
| Water Depth (m) | | | 14 | 1.6 | | | 22.22.075 | 113.55.106 |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.3 | 23.3 | 22.0 | 22.0 | 21.8 | 21.8 | 22.38 | - |
| Salinity (ppt) | 32.6 | 32.5 | 33.7 | 33.7 | 34.2 | 34.2 | 33.47 | - |
| рН | 8.2 | 8.2 | 8.2 | 8.2 | 8.3 | 8.3 | 8.23 | |
| D.O. Saturation (%) | 100.4 | 99.8 | 92.4 | 94.0 | 96.0 | 95.5 | 96.35 | - |
| D.O. (mg/L) | 6.8 | 6.8 | 6.3 | 6.3 | 6.5 | 6.52 | 6.53 | 6.53 |
| Turbidity (NTU) | 4.7 | 4.9 | 5.3 | 5.4 | 5.6 | 5.8 | 5.28 | - |
| SS (mg/L) | 8.0 | 10.0 | 10.0 | 12.0 | 10.0 | 10.0 | 10.00 | - |
| Remarks | | | | redging wor | ks was obse | rved. | | |

| Station | | | IM | 02 | | | Co-ord | linates | | | |
|------------------------|---------|------------------------------|-----------|------------|---------|---------|--------------------|---------|--|--|--|
| Time (hh:mm) | | | 9:23 | -9:26 | | | Northing | Easting | | | |
| Water Depth (m) | | | 22.21.754 | 113.55.491 | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 22.7 | 22.8 | 21.9 | 21.9 | 21.7 | 21.8 | 22.13 | - | | | |
| Salinity (ppt) | 33.2 | 33.2 | 34.1 | 34.1 | 34.4 | 34.3 | 33.88 | - | | | |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.2 | 8.17 | | | | |
| D.O. Saturation (%) | 100.9 | 102.0 | 99.4 | 98.3 | 100.8 | 99.0 | 100.07 | - | | | |
| D.O. (mg/L) | 6.8 | 6.9 | 6.8 | 6.7 | 6.9 | 6.85 | 6.83 | 6.87 | | | |
| Turbidity (NTU) | 5.1 | 5.1 | 5.4 | 5.2 | 5.8 | 5.9 | 5.42 | - | | | |
| SS (mg/L) | 9.0 | 9.0 | 8.0 | 9.00 | - | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | PB1 | | | | | | |
|-----------------------|------------------------------|---------|---------|---------|---------|---------|--------------------|--------|--|--|
| Time (hh:mm) | | | 10:15 | -10:17 | | | | | | |
| Water Depth (m) | | | | | | | | | | |
| 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 (℃) | 23.2 | 23.3 | 22.9 | 22.9 | 22.6 | 22.7 | 22.95 | - | | |
| Salinity (ppt) | 26.2 | 26.2 | 28.6 | 28.6 | 30.3 | 30.3 | 28.37 | - | | |
| pH | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.14 | | | |
| D.O. Saturation (%) | 101.6 | 103.2 | 101.2 | 101.8 | 104.4 | 104.4 | 102.77 | - | | |
| D.O. (mg/L) | 7.1 | 7.2 | 7.0 | 7.0 | 7.2 | 7.2 | 7.11 | 7.18 | | |
| Turbidity (NTU) | 4.1 | 4.3 | 4.7 | 4.5 | 4.9 | 4.8 | 4.55 | - | | |
| SS (mg/L) | 10.0 | 9.0 | 10.0 | 9.0 | 10.0 | 8.0 | 9.33 | - | | |
| Remarks | Dredging works was observed. | | | | | | | | | |

| Station | | | MP | B2 | | |] | |
|------------------------|---------|---------|---------|--------------|-------------|---------|----------|--------|
| Time (hh:mm) | | | 10:26 | -10:28 | | | | |
| Water Depth (m) | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- | Bottom |
| | | | | | | | averaged | |
| Water Temperature (°C) | 23.3 | 23.2 | 22.9 | 23.0 | 22.8 | 22.9 | 23.01 | - |
| Salinity (ppt) | 26.5 | 26.6 | 28.9 | 28.8 | 29.3 | 29.1 | 28.20 | - |
| pН | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.16 | |
| D.O. Saturation (%) | 103.2 | 103.0 | 104.3 | 103.7 | 106.3 | 105.1 | 104.27 | - |
| D.O. (mg/L) | 7.2 | 7.1 | 7.2 | 7.2 | 7.3 | 7.3 | 7.20 | 7.29 |
| Turbidity (NTU) | 5.1 | 5.2 | 5.1 | 5.3 | 5.4 | 5.7 | 5.30 | - |
| SS (mg/L) | 8.0 | 8.0 | 11.0 | 9.33 | - | | | |
| Remarks | | | D | redging worl | ks was obse | rved. | | |

| Station | | | N | IP | | | 1 | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|--------------------|--------|--|--|--|
| Time (hh:mm) | | | 10:05 | -10:06 | | | | | | | |
| Water Depth (m) | | | | | | | | | | | |
| Monitoring Depth (m) | 1 | .0 | | | | | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth- averaged | Bottom | | | |
| Water Temperature (°C) | 23.2 | 23.3 | - | - | 22.9 | 22.8 | 23.05 | - | | | |
| Salinity (ppt) | 27.8 | 27.7 | - | - | 28.9 | 28.8 | 28.28 | - | | | |
| pH | 8.2 | 8.2 | - | - | 8.2 | 8.2 | 8.17 | | | | |
| D.O. Saturation (%) | 109.8 | 110.9 | - | - | 112.6 | 112.9 | 111.55 | - | | | |
| D.O. (mg/L) | 7.7 | 7.7 | - | - | 7.7 | 7.8 | 7.70 | 7.75 | | | |
| Turbidity (NTU) | 4.3 | 4.4 | - | - | 4.8 | 4.6 | 4.53 | - | | | |
| SS (mg/L) | 9.0 | 9.50 | - | | | | | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Parameter | As in | EM&A | C2*1 | 30% | IM | IMO1 | | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|--------|-------|--------|-------|----------|-------------|------------|------------|-------------|---------------------------|----------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance | Exceedance | Exceedanc | Exceedance of Limit Level | Exceedan | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | of Action | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | Level | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 6.9 | 6.9 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.8 | 6.8 | N | N | N | N | N | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 6.9 | 6.9 | N | N | N | N | N | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 13.0 | 13.0 | N | N | N | N | N | N | N | N | N | N |

| Sampling Date | 11/30/08 |
|-------------------------------|------------|
| Weather & Ambient Temperature | Sunny, 24C |

| Station | | | C1 (| | | | | |
|-----------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 14:49 | | | | | |
| Water Depth (m) | | | 16 | 6.2 | | | | |
| Monitoring Depth (m) | 1 | .0 | 8 | .1 | 15 | 5.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 22.4 | 22.4 | 21.6 | 21.7 | 21.6 | 21.6 | 21.88 | - |
| Salinity (ppt) | 33.7 | 33.7 | 34.6 | 34.6 | 34.8 | 34.8 | 34.37 | - |
| pH | 8.0 | 8.0 | 8.0 | 8.1 | 8.0 | 8.0 | 8.01 | |
| D.O. Saturation (%) | 101.8 | 102.2 | 97.7 | 95.8 | 102.7 | 103.6 | 100.63 | - |
| D.O. (mg/L) | 6.9 | 6.9 | 6.7 | 6.5 | 7.0 | 7.1 | 6.85 | 7.05 |
| Turbidity (NTU) | 5.3 | 5.1 | 5.3 | 5.5 | 5.7 | 5.5 | 5.40 | - |
| SS (mg/L) | 12.0 | 10.0 | 10.0 | 12.0 | 10.0 | 11.0 | 10.83 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | C3 (| | | | | |
|------------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 13:26 | | | | | |
| 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) | 23.0 | 23.0 | 22.5 | 22.4 | 22.4 | 22.4 | 22.60 | - |
| Salinity (ppt) | 29.6 | 29.6 | 31.2 | 31.1 | 31.5 | 31.5 | 30.73 | - |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.20 | |
| D.O. Saturation (%) | 100.7 | 101.6 | 100.2 | 100.1 | 103.3 | 102.5 | 101.40 | - |
| D.O. (mg/L) | 6.9 | 7.0 | 6.9 | 6.9 | 7.1 | 7.0 | 6.96 | 7.06 |
| Turbidity (NTU) | 5.3 | 5.4 | 5.7 | 5.8 | 6.1 | 5.8 | 5.68 | - |
| SS (mg/L) | 8.0 | 9.0 | 9.0 | 8.0 | 10.0 | 9.0 | 8.83 | - |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | | Co-ordinate | S | | |
|-----------------------|---------|---------|---------|---------|--------------|--------------|----------------|--------|
| Time (hh:mm) | | | 14:24 | | Northing | Easting | | |
| Water Depth (m) | | | 15 | | 22.21.761 | 113.55.094 | | |
| Monitoring Depth (m) | 1 | .0 | 7 | .6 | 14 | 1.2 | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom |
| Water Temperature (℃) | 22.7 | 22.7 | 22.3 | 22.3 | 21.7 | 21.8 | 22.25 | - |
| Salinity (ppt) | 32.3 | 32.2 | 33.7 | 33.7 | 34.3 | 34.2 | 33.38 | - |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.22 | |
| D.O. Saturation (%) | 98.6 | 96.9 | 90.9 | 90.3 | 96.0 | 95.3 | 94.67 | - |
| D.O. (mg/L) | 6.7 | 6.6 | 6.1 | 6.1 | 6.5 | 6.5 | 6.42 | 6.52 |
| Turbidity (NTU) | 4.7 | 4.5 | 4.9 | 4.7 | 5.5 | 5.7 | 5.00 | - |
| SS (mg/L) | 8.0 | 9.0 | 10.0 | 8.67 | - | | | |
| Remarks | | | | Dredg | jing works w | as observed. | | |

| Station | | | IM | | Co-ordinate | S | | | | | |
|-----------------------|---------|------------------------------|---------|---------|-------------|---------|----------------|------------|--|--|--|
| Time (hh:mm) | | | 14:36 | | Northing | Easting | | | | | |
| Water Depth (m) | | | 13 | 3.4 | | | 22.21.751 | 113.55.481 | | | |
| Monitoring Depth (m) | 1 | .0 | 6 | .7 | 12 | 2.4 | | | | | |
| Trial | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Trial 1 | Trial 2 | Depth-averaged | Bottom | | | |
| Water Temperature (℃) | 22.6 | 22.6 | 21.8 | 21.8 | 21.7 | 21.6 | 22.00 | - | | | |
| Salinity (ppt) | 31.9 | 31.8 | 33.6 | 33.6 | 34.2 | 34.3 | 33.23 | - | | | |
| pH | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.18 | | | | |
| D.O. Saturation (%) | 98.1 | 97.1 | 95.1 | 95.4 | 96.6 | 97.6 | 96.65 | - | | | |
| D.O. (mg/L) | 6.6 | 6.6 | 6.5 | 6.5 | 6.6 | 6.7 | 6.59 | 6.63 | | | |
| Turbidity (NTU) | 4.4 | 4.6 | 4.7 | 4.5 | 5.3 | 5.2 | 4.78 | - | | | |
| SS (mg/L) | 10.0 | 8.0 | 8.0 | 8.0 | 8.0 | 9.0 | 8.50 | - | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | |

| Station | | | MF | | | | | |
|------------------------|---------|---------|---------|---------|-------------|-----------|----------------|--------|
| Time (hh:mm) | | | 13:51 | | | | | |
| 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) | 23.1 | 23.1 | 22.7 | 22.8 | 22.6 | 22.6 | 22.82 | - |
| Salinity (ppt) | 26.5 | 26.4 | 28.7 | 28.6 | 30.0 | 30.2 | 28.38 | - |
| pН | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.16 | |
| D.O. Saturation (%) | 101.8 | 102.4 | 101.5 | 101.1 | 103.4 | 104.4 | 102.43 | - |
| D.O. (mg/L) | 7.1 | 7.1 | 7.0 | 7.0 | 7.1 | 7.2 | 7.08 | 7.15 |
| Turbidity (NTU) | 4.5 | 4.7 | 5.1 | 4.9 | 5.6 | 5.4 | 5.03 | - |
| SS (mg/L) | 8.0 | 9.0 | 8.0 | 9.0 | 9.0 | 9.0 | 8.67 | - |
| Remarks | | | | Dredgin | g works was | observed. | | |

| Station | | | MF | | | | | |
|------------------------|---------|---------|---------|----------|-----------|-----------|----------------|--------|
| Time (hh:mm) | | | 13:39 | | | | | |
| 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) | 23.0 | 23.1 | 23.0 | 22.9 | 22.9 | 22.9 | 22.98 | - |
| Salinity (ppt) | 26.7 | 26.9 | 27.4 | 27.4 | 27.4 | 27.5 | 27.21 | - |
| pH | 8.2 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.15 | |
| D.O. Saturation (%) | 102.5 | 103.1 | 103.6 | 103.9 | 104.1 | 104.4 | 103.60 | - |
| D.O. (mg/L) | 7.1 | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.17 | 7.21 |
| Turbidity (NTU) | 5.2 | 5.2 | 5.3 | 5.1 | 5.9 | 5.8 | 5.42 | - |
| SS (mg/L) | 8.0 | 9.0 | 9.0 | 9.0 | 8.0 | 10.0 | 8.83 | - |
| Remarks | | | | Dredging | works was | observed. | | |

| Station | | | N | | | | | | | | | |
|------------------------|---------|------------------------------|---------|---------|---------|---------|----------------|--------|--|--|--|--|
| Time (hh:mm) | | | 14:01 | | | | | | | | | |
| 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) | 23.0 | 23.0 | - | - | 22.7 | 22.7 | 22.84 | - | | | | |
| Salinity (ppt) | 28.1 | 28.2 | - | - | 29.6 | 29.5 | 28.83 | - | | | | |
| pH | 8.2 | 8.1 | - | - | 8.2 | 8.2 | 8.18 | | | | | |
| D.O. Saturation (%) | 109.2 | 110.5 | - | - | 110.8 | 111.1 | 110.40 | - | | | | |
| D.O. (mg/L) | 7.5 | 7.6 | - | - | 7.6 | 7.7 | 7.60 | 7.63 | | | | |
| Turbidity (NTU) | 5.3 | 5.1 | - | - | 5.6 | 5.4 | 5.35 | - | | | | |
| SS (mg/L) | 10.0 | 12.0 | - | - | 7.0 | 9.0 | 9.50 | - | | | | |
| Remarks | | Dredging works was observed. | | | | | | | | | | |

| Parameter | As in | EM&A | Mean(C1+C3)*130% | | IMO1 | | IMO2 | IMO2 | | MPB1 | MPB2 | | MP | |
|----------------------------|--------|-------|------------------|-------|----------|-------------|----------------------|------------|-------------|--------------------------------------|--------|-------------|----------|-------------|
| | Action | Limit | Action | Limit | Exceedan | Exceedan | Exceedance of Action | Exceedance | Exceedanc | Exceedance Exceedance of Limit Level | | Exceedan | Exceedan | Exceedan |
| | Level | Level | Level | Level | ce of | ce of Limit | Level | of Limit | e of Action | | ce of | ce of Limit | ce of | ce of Limit |
| | | | | | Action | Level | | Level | Level | | Action | Level | Action | Level |
| DO (Bottom) | 3.3 | 2.5 | 7.1 | 7.1 | N | N | N | N | N | N | N | N | N | N |
| DO (Depth-averaged) | 4.2 | 4.0 | 6.9 | 6.9 | N | N | N | N | Ν | N | N | N | N | N |
| Turbidity (Depth-averaged) | 29.0 | 49.0 | 7.2 | 7.2 | N | Ν | Ν | N | Ν | N | N | N | N | N |
| SS (Depth-averaged) | 24.0 | 37.0 | 12.8 | 12.8 | N | Ν | N | N | N | N | N | Ν | N | N |

Annex H

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact Address | ERM HONG KONG MS KAREN LUI 21/F, LINCOLN HOUSE, 979 KING`S ROAD, TAIKOO PLACE, ISLAND EAST, | Laboratory Contact Address | ALS Technichem (HK) Pty Ltd Wong Wai Man, Alice 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, | Page Work Order | : 1 of 5 : HK0817249 |
|--------------------------------------|---|----------------------------------|--|---------------------------------|--|
| E-mail Telephone | QUARRY BAY, HONG KONG ∴ Karen.Lui@erm.com ∴ +852 2271 3000 | E-mail Telephone | Kwai Chung, N.T., Hong Kong ∴ Alice.Wong@alsenviro.com ∴ +852 2610 1044 | | |
| Facsimile Project | +852 2723 5660 EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Facsimile Quote number | : +852 2610 2021 : | Date received | 22-OCT-2008 |
| Order number C-O-C number Site | : : : | | | Date of issue No. of samples | : 25-OCT-2008 - Received : 74 - Analysed : 74 |

Report Comments

This report for ALS Technichem (HK) Pty Ltd work order reference HK0817249 supersedes any previous reports with this reference. The completion date of analysis is . 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 HK0817249 :

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition. Water sample(s) analysed and reported on an as received basis.

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

A Campbell Brothers Limited Company



Analytical Results

| Sub-Matrix: MARINE WATER | | Compound | EA025: Suspended | | |
|--------------------------|------------------------|-------------------|----------------------|--|--|
| | | | Solids (SS) | | |
| | | LOR Unit | 1 mg/L | | |
| Client sample ID | Client sampling date / | Laboratory sample | EA/ED: Physical and | | |
| | time | ID | Aggregate Properties | | |
| MP S ME | [22-OCT-2008] | HK0817249-001 | 4 | | |
| MP S DUP ME | [22-OCT-2008] | HK0817249-002 | 4 | | |
| МР В МЕ | [22-OCT-2008] | HK0817249-005 | 4 | | |
| MP B DUP ME | [22-OCT-2008] | HK0817249-006 | 3 | | |
| MPB1 S ME | [22-OCT-2008] | HK0817249-007 | 4 | | |
| MPB1 S DUP ME | [22-OCT-2008] | HK0817249-008 | 4 | | |
| MPB1 M ME | [22-OCT-2008] | HK0817249-009 | 4 | | |
| MPB1 M DUP ME | [22-OCT-2008] | HK0817249-010 | 5 | | |
| MPB1 B ME | [22-OCT-2008] | HK0817249-011 | 6 | | |
| MPB1 B DUP ME | [22-OCT-2008] | HK0817249-012 | 4 | | |
| MPB2 S ME | [22-OCT-2008] | HK0817249-013 | 4 | | |
| MPB2 S DUP ME | [22-OCT-2008] | HK0817249-014 | 4 | | |
| MPB2 M ME | [22-OCT-2008] | HK0817249-015 | 6 | | |
| MPB2 M DUP ME | [22-OCT-2008] | HK0817249-016 | 4 | | |
| MPB2 B ME | [22-OCT-2008] | HK0817249-017 | 4 | | |
| MPB2 B DUP ME | [22-OCT-2008] | HK0817249-018 | 5 | | |
| IMO1 S ME | [22-OCT-2008] | HK0817249-019 | 4 | | |
| IMO1 S DUP ME | [22-OCT-2008] | HK0817249-020 | 4 | | |
| IMO1 M ME | [22-OCT-2008] | HK0817249-021 | 5 | | |
| IMO1 M DUP ME | [22-OCT-2008] | HK0817249-022 | 6 | | |
| IMO1 B ME | [22-OCT-2008] | HK0817249-023 | 4 | | |
| IMO1 B DUP ME | [22-OCT-2008] | HK0817249-024 | 4 | | |
| IMO2 S ME | [22-OCT-2008] | HK0817249-025 | 4 | | |
| IMO2 S DUP ME | [22-OCT-2008] | HK0817249-026 | 4 | | |
| IMO2 M ME | [22-OCT-2008] | HK0817249-027 | 4 | | |
| IMO2 M DUP ME | [22-OCT-2008] | HK0817249-028 | 3 | | |
| IMO2 B ME | [22-OCT-2008] | HK0817249-029 | 4 | | |
| IMO2 B DUP ME | [22-OCT-2008] | HK0817249-030 | 3 | | |
| C2 (NM5) S ME | [22-OCT-2008] | HK0817249-043 | 4 | | |
| C2 (NM5) S DUP ME | [22-OCT-2008] | HK0817249-044 | 4 | | |
| C2 (NM5) M ME | [22-OCT-2008] | HK0817249-045 | 5 | | |
| C2 (NM5) M DUP ME | [22-OCT-2008] | HK0817249-046 | 6 | | |
| C2 (NM5) B ME | [22-OCT-2008] | HK0817249-047 | 3 | | |
| C2 (NM5) B DUP ME | [22-OCT-2008] | HK0817249-048 | 3 | | |
| MP S MF | [22-OCT-2008] | HK0817249-049 | 3 | | |



| Sub-Matrix: MARINE WATER | | Compound | EA025: Suspended | | |
|--------------------------|------------------------|-------------------|----------------------|--|--|
| | | | Solids (SS) | | |
| | | LOR Unit | 1 mg/L | | |
| Client sample ID | Client sampling date / | Laboratory sample | EA/ED: Physical and | | |
| | time | ID | Aggregate Properties | | |
| MP S DUP MF | [22-OCT-2008] | HK0817249-050 | 2 | | |
| MP B MF | [22-OCT-2008] | HK0817249-053 | 3 | | |
| MP B DUP MF | [22-OCT-2008] | HK0817249-054 | 3 | | |
| MPB1 S MF | [22-OCT-2008] | HK0817249-055 | 3 | | |
| MPB1 S DUP MF | [22-OCT-2008] | HK0817249-056 | 2 | | |
| MPB1 M MF | [22-OCT-2008] | HK0817249-057 | 4 | | |
| MPB1 M DUP MF | [22-OCT-2008] | HK0817249-058 | 5 | | |
| MPB1 B MF | [22-OCT-2008] | HK0817249-059 | 5 | | |
| MPB1 B DUP MF | [22-OCT-2008] | HK0817249-060 | 4 | | |
| MPB2 S MF | [22-OCT-2008] | HK0817249-061 | 3 | | |
| MPB2 S DUP MF | [22-OCT-2008] | HK0817249-062 | 2 | | |
| MPB2 M MF | [22-OCT-2008] | HK0817249-063 | 3 | | |
| MPB2 M DUP MF | [22-OCT-2008] | HK0817249-064 | 3 | | |
| MPB2 B MF | [22-OCT-2008] | HK0817249-065 | 3 | | |
| MPB2 B DUP MF | [22-OCT-2008] | HK0817249-066 | 4 | | |
| IMO1 S MF | [22-OCT-2008] | HK0817249-067 | 4 | | |
| IMO1 S DUP MF | [22-OCT-2008] | HK0817249-068 | 3 | | |
| IMO1 M MF | [22-OCT-2008] | HK0817249-069 | 3 | | |
| IMO1 M DUP MF | [22-OCT-2008] | HK0817249-070 | 3 | | |
| IMO1 B MF | [22-OCT-2008] | HK0817249-071 | 4 | | |
| IMO1 B DUP MF | [22-OCT-2008] | HK0817249-072 | 4 | | |
| IMO2 S MF | [22-OCT-2008] | HK0817249-073 | 2 | | |
| IMO2 S DUP MF | [22-OCT-2008] | HK0817249-074 | 3 | | |
| IMO2 M MF | [22-OCT-2008] | HK0817249-075 | 4 | | |
| IMO2 M DUP MF | [22-OCT-2008] | HK0817249-076 | 4 | | |
| IMO2 B MF | [22-OCT-2008] | HK0817249-077 | 3 | | |
| IMO2 B DUP MF | [22-OCT-2008] | HK0817249-078 | 3 | | |
| C1 (NM3) S MF | [22-OCT-2008] | HK0817249-091 | 3 | | |
| C1 (NM3) S DUP MF | [22-OCT-2008] | HK0817249-092 | 3 | | |
| C1 (NM3) M MF | [22-OCT-2008] | HK0817249-093 | 3 | | |
| C1 (NM3) M DUP MF | [22-OCT-2008] | HK0817249-094 | 4 | | |
| C1 (NM3) B MF | [22-OCT-2008] | HK0817249-095 | 3 | | |
| C1 (NM3) B DUP MF | [22-OCT-2008] | HK0817249-096 | 4 | | |
| C3 (NM6) S MF | [22-OCT-2008] | HK0817249-097 | 3 | | |
| C3 (NM6) S DUP MF | [22-OCT-2008] | HK0817249-098 | 3 | | |



| Sub-Matrix: MARINE WATER | | Compound | EA025: Suspended | | |
|--------------------------|------------------------|-------------------|----------------------|--|--|
| | | | Solids (SS) | | |
| | | LOR Unit | 1 mg/L | | |
| Client sample ID | Client sampling date / | Laboratory sample | EA/ED: Physical and | | |
| | time | ID | Aggregate Properties | | |
| C3 (NM6) M MF | [22-OCT-2008] | HK0817249-099 | 3 | | |
| C3 (NM6) M DUP MF | [22-OCT-2008] | HK0817249-100 | 3 | | |
| C3 (NM6) B MF | [22-OCT-2008] | HK0817249-101 | 3 | | |
| C3 (NM6) B DUP MF | [22-OCT-2008] | HK0817249-102 | 4 | | |



Laboratory Duplicate (DUP) Report

| Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | | | |
|---|--------------------------|------------------------------|-----|-----------------------------------|-----------------|------------------|---------|------|--|--|
| Laboratory sample ID | Client sample ID | Method: Compound | LOR | Unit | Original Result | Duplicate Result | RPD (%) | | | |
| EA/ED: Physical and | Aggregate Properties (QC | Lot: 794522) | | | | | | | | |
| HK0817249-001 | MP S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | |
| HK0817249-013 | MPB2 S ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 3 | 0.0 | | |
| EA/ED: Physical and Aggregate Properties (QC Lot: 794523) | | | | | | | | | | |
| HK0817249-023 | IMO1 B ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | |
| HK0817249-045 | C2 (NM5) M ME | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 6 | 18.6 | | |
| EA/ED: Physical and | Aggregate Properties (QC | Lot: 794524) | | | | | | | | |
| HK0817249-058 | MPB1 M DUP MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 5 | 4 | 0.0 | | |
| HK0817249-067 | IMO1 S MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 4 | 4 | 0.0 | | |
| EA/ED: Physical and | Aggregate Properties (QC | Lot: 794525) | | | | | | | | |
| HK0817249-077 | IMO2 B MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 3 | 3 | 0.0 | | |
| HK0817249-099 | C3 (NM6) M MF | EA025: Suspended Solids (SS) | | 1 | mg/L | 3 | 4 | 0.0 | | |

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

| Matrix: WATER | | Method Blank (MB) Report | | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | |
|--|--|--------------------------|------|--------|--|-----------|-----------|---------------------|------|----------|---------------|
| | | | | | Spike | Spike Rec | overy (%) | Recovery Limits (%) | | RPDs (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | DCS | Low | High | Value | Control Limit |
| EA/ED: Physical and Aggregate Properties (QCLot: 794522) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 96.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QCLot: 794523) | | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 88.0 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | Lot: 794524) | | | | | | | | | | |
| EA025: Suspended Solids (SS) | | 2 | mg/L | <2 | 20 mg/L | 108 | | 85 | 115 | | |
| EA/ED: Physical and Aggregate Properties (QC | EA/ED: Physical and Aggregate Properties (QCLot: 794525) | | | | | | | | | | |
| 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.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS

| Client Contact | : ERM HONG KONG : MS KAREN LUI | Laboratory Contact | :ALS Technichem (HK) Pty Ltd :Wong Wai Man, Alice | Page Work Order | : 1 of 7 [:] HK0819015 |
|----------------------------------|--|----------------------------------|---|--|------------------------------------|
| 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 Telephone Facsimile | ∶ Karen.Lui@erm.com ∶ +852 2271 3000 ∶ +852 2723 5660 | E-mail Telephone Facsimile | : Alice.Wong@alsenviro.com : +852 2610 1044 : +852 2610 2021 | | |
| Project | : EM&A FOR THE PERMANENT AVIATION FUEL FACILITY | Quote number | : | Date Samples Received | : 12-NOV-2008 |
| Order number | : | | | Issue Date | : 01-DEC-2008 |
| C-O-C number Site | : | | | No. of samples received No. of samples analysed | : 18 : 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: 20-NOV-2008

Key: LOR = Limit of reporting; CAS Number = Chemistry Abstract Services number

Specific comments for Work Order: **HK0819015**

Sample(s) were picked up from client by ALS Technichem (HK) staff in a chilled condition.

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

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|---|--|----------------|------------------------|
| | Signatories | Position | Authorised results for |
| | Anh Ngoc Huynh | Senior Chemist | Organics |

A Campbell Brothers Limited Company



Analytical Results

| Sub-Matrix: MARINE WATER | | Clie | nt sample ID | MPB1 ME | MPB1 ME DUP | MPB2 ME | MPB2 ME DUP | MP ME |
|-----------------------------------|---------------------------|-------------|----------------|---------------|---------------|---------------|-----------------------|------------------------------|
| | Cli | ent samplin | ig date / time | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] |
| Compound | CAS Number | LOR | Unit | HK0819015-001 | HK0819015-002 | HK0819015-003 | HK0819015-004 | HK0819015-005 |
| P-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 |
| P-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 |
| P-065S: PCB Congeners and Organoc | hlorine Pesticides Surrog | ate | | | | | Surrogate control lim | its listed at end of this re |
| Decachlorobiphenyl | 2051-24-3 | 0.1 | % | 87.1 | 80.1 | 89.0 | 89.4 | 90.1 |



Page Number: 3 of 7Client: ERM HONG KONGWork OrderHK0819015

_

| Sub-Matrix: MARINE WATER | | Clie | ent sample ID | MP ME DUP | C2 (NM5) ME | C2 (NM5) ME DUP | MPB1 MF | MPB1 MF DUP |
|------------------------------------|----------------------------|-------------|----------------|---------------|---------------|-----------------|-----------------------|------------------------------------|
| | Cl | ient sampli | ng date / time | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] |
| Compound | CAS Number | LOR | Unit | HK0819015-006 | HK0819015-007 | HK0819015-008 | HK0819015-009 | HK0819015-010 |
| 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 Organo | chlorine Pesticides Surrog | jate | | | | | Surrogate control lir | nits listed at end of this report. |
| Decachlorobiphenyl | 2051-24-3 | 0.1 | % | 112 | 97.1 | 91.0 | 112 | 103 |

| Page Number | ∴ 4 of 7 |
|-------------|-----------------|
| Client | : ERM HONG KONG |
| Work Order | HK0819015 |



| Sub-Matrix: MARINE WATER | | Clie | ent sample ID | MPB2 MF | MPB2 MF DUP | MP MF | MP MF DUP | C1 (NM3) MF |
|--|---------------------|------------|----------------|---------------|---------------|---------------|-----------------------|-----------------------------------|
| | Cli | ent sampli | ng date / time | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] |
| Compound | CAS Number | LOR | Unit | HK0819015-011 | HK0819015-012 | HK0819015-013 | HK0819015-014 | HK0819015-015 |
| EP-065A: PCB Single Congeners | | | | | | | | |
| PCB 8 | 34883-43-7 | 0.01 | µg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| 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 Organochlorin | e Pesticides Surrog | ate | | | | | Surrogate control lin | nits listed at end of this report |
| Decachlorobiphenyl | 2051-24-3 | 0.1 | % | 87.9 | 74.5 | 80.1 | 77.0 | 80.8 |

| Page Number | ∴ 5 of 7 |
|-------------|-----------------|
| Client | : ERM HONG KONG |
| Work Order | HK0819015 |



| Sub-Matrix: MARINE WATER | | Clie | ent sample ID | C1 (NM3) MF DUP | C3 (NM6) MF | C3 (NM6) MF DUP | | |
|--|---------------------|-------------|----------------|-----------------|---------------|-----------------|--------------------------|-------------------------------|
| | Cli | ient sampli | ng date / time | [12-NOV-2008] | [12-NOV-2008] | [12-NOV-2008] | | |
| Compound | CAS Number | LOR | Unit | HK0819015-016 | HK0819015-017 | HK0819015-018 | | |
| 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 Organochlorin | e Pesticides Surrog | jate | | | | | Surrogate control limits | listed at end of this report. |
| Decachlorobiphenyl | 2051-24-3 | 0.1 | % | 75.0 | 78.2 | 78.6 | | |

| Page Number | : | 6 of 7 |
|-------------|---|---------------|
| Client | : | ERM HONG KONG |
| Work Order | | HK0819015 |



Laboratory Duplicate (DUP) Report

| latrix: WATER | | | | | L | aboratory Duplicate (DUP) I | Report | |
|---------------------|-------------------------|------------------|------------|------|------|-----------------------------|------------------|---------|
| aboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) |
| EP-065A: PCB Sing | le Congeners (QC Lot: | 814425) | | | | | | |
| HK0819015-001 | MPB1 ME | 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: Organoch | lorine Pesticides (QC I | Lot: 814425) | | | | | | |
| HK0819015-001 | MPB1 ME | 4.4`-DDT | 50-29-3 | 0.01 | µg/L | <0.01 | <0.01 | 0.0 |
| HK0819015-001 N | | 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 (ME | 3) Report | | Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report | | | | | | | |
|-------------------------------|------------------|------|------------------|-----------|--------------|--|------------|----------|------------|---------|---------------|--|--|
| | | | | | Spike | Spike Re | covery (%) | Recovery | Limits (%) | RPD (%) | | | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentratio | LCS | DCS | Low High | | Value | Control Limit | | |
| EP-065A: PCB Single Congeners | (QC Lot: 814425) | | | | n | | | | · · · | | | | |
| PCB 8 | 34883-43-7 | 0.01 | µg/L | <0.01 | 100 µg/L | 95.1 | | 50 | 130 | | | | |
| PCB 18 | 37680-65-2 | 0.01 | µg/L | <0.01 | 100 µg/L | 79.1 | | 50 | 130 | | | | |
| PCB 28 | 7012-37-5 | 0.01 | µg/L | <0.01 | 100 µg/L | 86.9 | | 50 | 130 | | | | |
| PCB 52 | 35693-99-3 | 0.01 | µg/L | <0.01 | 100 µg/L | 83.0 | | 50 | 130 | | | | |
| PCB 44 | 41464-39-5 | 0.01 | µg/L | <0.01 | 100 µg/L | 78.6 | | 50 | 130 | | | | |
| PCB 66 | 32598-10-0 | 0.01 | µg/L | <0.01 | 100 µg/L | 81.1 | | 50 | 130 | | | | |
| PCB 101 | 37680-73-2 | 0.01 | µg/L | <0.01 | 100 µg/L | 112 | | 50 | 130 | | | | |
| PCB 77 | 32598-13-3 | 0.01 | µg/L | <0.01 | 100 µg/L | 87.9 | | 50 | 130 | | | | |
| PCB 149 | 38380-04-0 | 0.01 | μg/L | <0.01 | 100 µg/L | 95.4 | | 50 | 130 | | | | |

| Page Number | : 7 | 7 of 7 |
|-------------|-----|---------------|
| Client | : 1 | ERM HONG KONG |
| Work Order | I | HK0819015 |



| Matrix: WATER | | | Method Blank (ME | 3) Report | | Laboratory Control | Spike (LCS) and Lab | oratory Control | Spike Duplicat | e (DCS) Report | |
|--|----------------------|------|------------------|-----------|--------------|-----------------------|---------------------|---------------------|----------------|----------------|---------------|
| | | | | | Spike | ke Spike Recovery (%) | | Recovery Limits (%) | | RPD (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentratio | LCS | DCS | Low | High | Value | Control Limit |
| EP-065A: PCB Single Congeners (QC Lot: | : 814425) - Continue | ed | | | n | | | | | | |
| PCB 118 | 31508-00-6 | 0.01 | µg/L | <0.01 | 100 µg/L | 96.8 | | 50 | 130 | | |
| PCB 153 | 35065-27-1 | 0.01 | µg/L | <0.01 | 100 µg/L | 91.9 | | 50 | 130 | | |
| PCB 105 | 32598-14-4 | 0.01 | µg/L | <0.01 | 100 µg/L | 91.6 | | 50 | 130 | | |
| PCB 126 | 57465-28-8 | 0.01 | µg/L | <0.01 | 100 µg/L | 90.1 | | 50 | 130 | | |
| PCB 187 | 52663-68-0 | 0.01 | µg/L | <0.01 | 100 µg/L | 118 | | 50 | 130 | | |
| PCB 128 | 38380-07-3 | 0.01 | µg/L | <0.01 | 100 µg/L | 93.1 | | 50 | 130 | | |
| PCB 156 | 38380-08-4 | 0.01 | µg/L | <0.01 | 100 µg/L | 87.6 | | 50 | 130 | | |
| PCB 180 | 35065-29-3 | 0.01 | µg/L | <0.01 | 100 µg/L | 103 | | 50 | 130 | | |
| PCB 169 | 60044-26-0 | 0.01 | µg/L | <0.01 | 100 µg/L | 84.5 | | 50 | 130 | | |
| PCB 170 | 35065-30-6 | 0.01 | µg/L | <0.01 | 100 µg/L | 96.0 | | 50 | 130 | | |
| PCB 195 | 52663-78-2 | 0.01 | µg/L | <0.01 | 100 µg/L | 108 | | 50 | 130 | | |
| EP-065B: Organochlorine Pesticides (QC | Lot: 814425) | | | | | | | | | | |
| 4.4`-DDT | 50-29-3 | 0.01 | µg/L | <0.01 | | | | | | | |
| 4.4`-DDE | 72-55-9 | 0.01 | µg/L | <0.01 | | | | | | | |
| 4.4`-DDD | 72-54-8 | 0.01 | µg/L | <0.01 | | | | | | | |

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: MARINE WATER | Recovery Limits (%) | | | | |
|--|------------------------|-----|------|--|--|
| Compound | CAS Number | Low | High | | |
| EP-065S: PCB Congeners and Organochlorin | e Pesticides Surrogate | | | | |
| Decachlorobiphenyl | 2051-24-3 | 50 | 130 | | |

Annex I

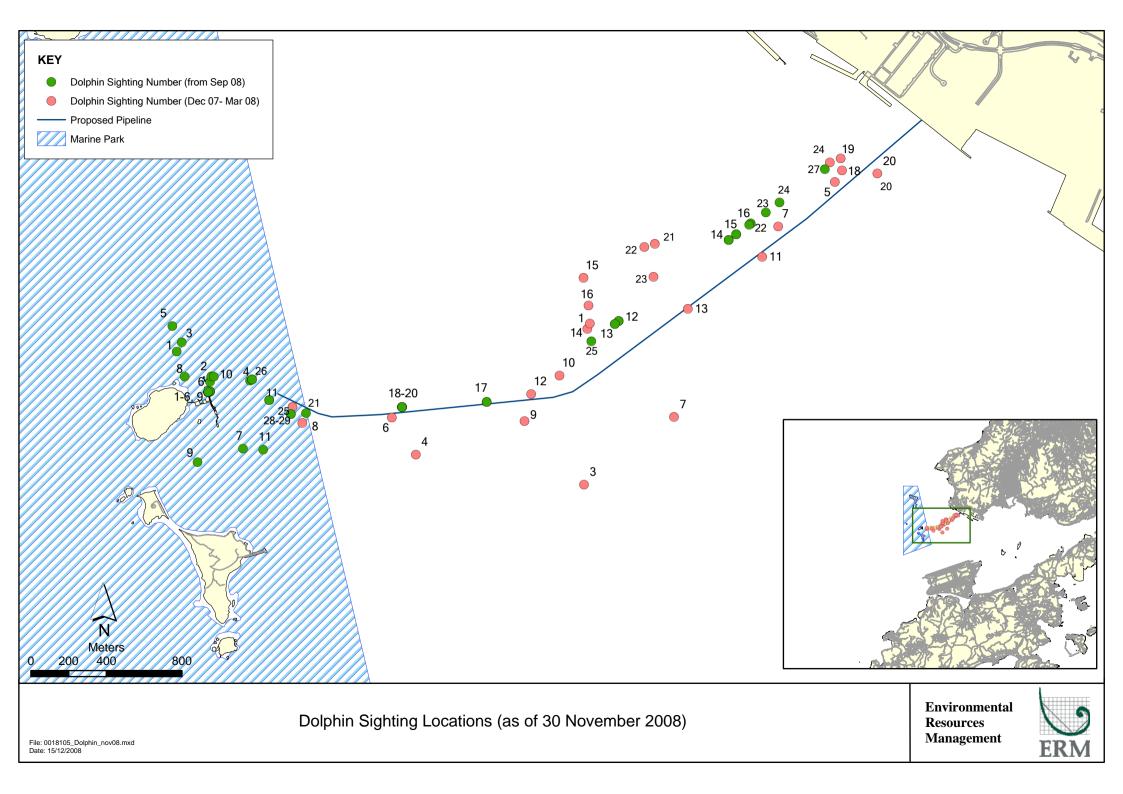
Dolphin Sighting Records

| | *Remark: | Record the | act Monitoring - Field Log Sheet number of dolphin occurrence with | nin the 250m exclusion (| A) prior to dredging and (B) during |
|------|-------------|------------|---|--------------------------|-------------------------------------|
| | ** Sighting | recorded w | hen there is no dredging Dredger 1 | | |
| Week | D | ate | No. of Dolphin Occurrence* | Observers' Names | |
| 1 | Mon | 01-Sep | No Dredging | - | Richard Huang |
| | Tue | 02-Sep | 15 | 1-7 | Anton Tsang |
| | Wed | 03-Sep | 2 | 8 | Anton Tsang |
| | Thu | 04-Sep | 1 | 9 | Richard Huang |
| | Fri | 05-Sep | 1 | 10 | Anton Tsang |
| | Sat | 06-Sep | | No Dredging | |
| | Sun | 07-Sep | | | |
| 2 | Mon | 08-Sep | No Dredging | | Richard Huang |
| | Tue | 09-Sep | 0 | - | Anton Tsang |
| | Wed | 10-Sep | 0 | - | Anton Tsang |
| | Thu | 11-Sep | 0 | - | Richard Huang |
| | Fri | 12-Sep | 0 | - | Anton Tsang |
| | Sat | 13-Sep | | No Dredging | |
| | Sun | 14-Sep | | | |
| 3 | Mon | 15-Sep | | No Dredging | |
| | Tue | 16-Sep | 0 | - | Richard Huang |
| | Wed | 17-Sep | 0 | - | Anton Tsang |
| | Thu | 18-Sep | 0 | - | Richard Huang |
| | Fri | 19-Sep | 0 | - | Anton Tsang |
| | Sat | 20-Sep | | No Dredging | |
| | Sun | 21-Sep | | No Dredging | |
| 4 | Mon | 22-Sep | No Dredging | - | Ivy So |
| | Tue | 23-Sep | No Dredging | - | Anton Tsang |
| | Wed | 24-Sep | Typhoon | | |
| | Thu | 25-Sep | 0 | - | Richard Huang |
| | Fri | 26-Sep | 0 | - | Ivy So |
| | Sat | 27-Sep | | No Dredging | |
| | Sun | 28-Sep | | No Dredging | |

| 5 | Mon | 29-Sep | 0 | <u> </u> | Ivy So | | | | |
|---|-----|--------|-------------|-------------|---------------|--|--|--|--|
| - | Tue | 30-Sep | 4 | 11 | Ivy So | | | | |
| | Wed | 01-Oct | 0 | _ | Richard Huang | | | | |
| | Thu | 02-Oct | 0 | - | Ivy So | | | | |
| | Fri | 03-Oct | 0 | - | Ivy So | | | | |
| | Sat | 04-Oct | 0 | - | Ivy So | | | | |
| | Sun | 05-Oct | 0 | - | Richard Huang | | | | |
| 6 | Mon | 06-Oct | 0 | - | Ivy So | | | | |
| | Tue | 07-Oct | 0 | - | Richard Huang | | | | |
| | Wed | 08-Oct | 0 | - | Ivy So | | | | |
| | Thu | 09-Oct | 4 | 12-13 | Ivy So | | | | |
| | Fri | 10-Oct | 0 | - | Ivy So | | | | |
| | Sat | 11-Oct | 3 | 14 | Ivy So | | | | |
| | Sun | 12-Oct | 1 | 15 | Richard Huang | | | | |
| 7 | Mon | 13-Oct | 3 | 16 | Ivy So | | | | |
| | Tue | 14-Oct | 0 | - | Ivy So | | | | |
| | Wed | 15-Oct | No Dredging | - | Ivy So | | | | |
| | Thu | 16-Oct | 0 | - | Chung | | | | |
| | Fri | 17-Oct | 0 | - | Ivy So | | | | |
| | Sat | 18-Oct | 0 | - | Ivy So | | | | |
| | Sun | 19-Oct | 1 | 71 | Richard Huang | | | | |
| 8 | Mon | 20-Oct | 0 | - | Ivy So | | | | |
| | Tue | 21-Oct | 0 | - | Ivy So | | | | |
| | Wed | 22-Oct | 8 | 18-20 | Ivy So | | | | |
| | Thu | 23-Oct | 0 | - | Richard Huang | | | | |
| | Fri | 24-Oct | 0 | - | Ivy So | | | | |
| | Sat | 25-Oct | 0 | - | Ivy So | | | | |
| | Sun | 26-Oct | 0 | _ | Richard Huang | | | | |
| 9 | Mon | 27-Oct | | No Dredging | | | | | |
| | Tue | 28-Oct | | No Dredging | | | | | |
| | Wed | 29-Oct | | | | | | | |
| | Thu | 30-Oct | | No Dredging | lo Dredging | | | | |
| | Fri | 31-Oct | | No Dredging | | | | | |

| | Sat | 01-Nov | No Dredging | - | No Monitoring |
|----|-----|--------|-------------|-------|---------------|
| | Sun | 02-Nov | No Dredging | - | No Monitoring |
| 10 | Mon | 03-Nov | No Dredging | - | No Monitoring |
| | Tue | 04-Nov | No Dredging | - | No Monitoring |
| | Wed | 05-Nov | No Dredging | - | Anton Tsang |
| | Thu | 06-Nov | 0 | - | Richard Huang |
| | Fri | 07-Nov | 1 | 21-22 | Anton Tsang |
| | Sat | 08-Nov | No Dredging | - | Ivy So |
| | Sun | 09-Nov | 0 | - | Richard Huang |
| 11 | Mon | 10-Nov | 1 | 23 | Anton Tsang |
| | Tue | 11-Nov | 1 | 24 | Anton Tsang |
| | Wed | 12-Nov | 0 | - | Anton Tsang |
| | Thu | 13-Nov | No Dredging | - | No Monitoring |
| | Fri | 14-Nov | No Dredging | - | No Monitoring |
| | Sat | 15-Nov | 0 | - | Ivy So |
| | Sun | 16-Nov | 1 | 25 | Richard Huang |
| 12 | Mon | 17-Nov | 0 | - | Anton Tsang |
| | Tue | 18-Nov | 0 | - | Anton Tsang |
| | Wed | 19-Nov | 0 | - | Anton Tsang |
| | Thu | 20-Nov | 0 | - | Richard Huang |
| | Fri | 21-Nov | 11 | 26 | Anton Tsang |
| | Sat | 22-Nov | 1 | 27 | Ivy So |
| | Sun | 23-Nov | 0 | - | Richard Huang |

| 13 | Mon | 24-Nov | 4 | 28-29 | Anton Tsang |
|----|-----|--------|---|-------|---------------|
| | Tue | 25-Nov | 0 | - | Anton Tsang |
| | Wed | 26-Nov | 0 | - | Anton Tsang |
| | Thu | 27-Nov | 0 | - | Richard Huang |
| | Fri | 28-Nov | 0 | - | Anton Tsang |
| | Sat | 29-Nov | 0 | - | Ivy So |
| | Sun | 30-Nov | 0 | - | Richard Huang |



| | | | | Dredger | Dredger | Sighting | | | | | | | |
|----------|------------------------------------|-------|--------------|--------------------------|--------------------------|---------------|----------------------|---|--------------------|----------|-------------|------------------------|------------------------|
| Sighting | | | | Coordinates | Coordinates (E- | Distance | #Sighting Angle from | | | | Boat | | |
| No. | Date | Time | | (N-Lat) | Long) | (m) | Dredging Machine (o) | | Group Composition* | Beaufort | Association | Behaviour | Other comments |
| 1 | 2/9/2008 | 1000 | 4315 | 806678.150 | 823838.545 | 275 | 320 | 4 | 2UA, 1 SA, 1 SJ | 1 | None | Feeding, Travelling | Before Dredging |
| | | | 4321 | 806672.460 | 823840.556 | | _ | | | | | | |
| 2 | 2/9/2008 | 1024 | 4315 | 806678.150 | 823838.545 | 80 | 5 | 2 | 2UA | 1 | None | Breaching, Spy-hopping | Before Dredging |
| 3 | 2/9/2008 | 1035 | 4321 4315 | 806672.460 806678.150 | 823840.556 823838.545 | 300 | 330 | 2 | 1UA, 1SA | 1 | None | Travelling | Before Dredging |
| 3 | 2/9/2008 | 1035 | 4315 | 806672.460 | 823840.556 | 300 | 330 | 2 | 10A, 13A | 1 | none | Travening | Belore Dreuging |
| 4 | 2/9/2008 | 1045 | 4315 | 806678.150 | 823838.545 | 220 | 75 | 3 | 1UA, 1SA, 1UJ | 1 | None | Travelling | Before Dredging |
| | 2/0/2000 | | 4321 | 806672.460 | 823840.556 | 220 | | | 10/1, 10/1, 100 | | 110110 | ravoling | Derere Dreaging |
| 5 | 2/9/2008 | 1108 | 4315 | 806678.150 | 823838.545 | 400 | 330 | 1 | 1SA | 1 | None | Travelling | Before Dredging |
| | | | 4321 | 806672.460 | 823840.556 | | | | | | | | |
| 6 | 2/9/2008 | 1411 | 4315 | 806678.150 | 823838.545 | 50 | 0 | 1 | 1UA | 2 | None | Travelling | During Dredging |
| | | | 4321 | 806672.460 | 823840.556 | | | | | | | | |
| 7 | 2/9/2008 | 1530 | 4315 | 806678.150 | 823838.545 | 350 | 150 | 2 | 2UA | 2 | None | Travelling | During Dredging |
| | | | 4321 | 806672.460 | 823840.556 | | | | | | | | |
| 8 | 3/9/2008 | 1535 | 4306 | 806687.338 | 823841.180 | 155 | 300 | 2 | 2UA | 1 | None | Travelling | During Dredging |
| 0 | 04/09/2008 | 1336 | 4300 | 806693.345 | 823842.903 | 200 | 190 | 2 | 2UA | 2 | Nene | Travalling | During Dradaing |
| 9 | 04/09/2008 | 1330 | 4306 4300 | 806687.338 806693.345 | 823841.180 823842.903 | 380 | 190 | 2 | 20A | 2 | None | Travelling | During Dredging |
| 10 | 5/9/2008 | 1711 | 4300 | 806678.150 | 823838.545 | 80 | 15 | 1 | 1UA | 2 | None | Travelling | Dredging Stopped |
| 10 | 3/3/2000 | 1711 | 4321 | 806672.460 | 823840.556 | 00 | 15 | | IUA | 2 | None | Travening | Dredging Stopped |
| 11 | 30-Sep-08 | 1050 | 3925 | 807000.841 | 823794.421 | 250 | 350 | 4 | 4UA | 2 | None | Travelling | Before Dredging |
| | 00 000 00 | | 4015 | 806948.534 | 823867.660 | 200 | | | 10/1 | _ | | | Delete Dreaging |
| 12 | 09/10/2008 | 1001 | 1900 | 808853.818 | 824212.899 | 200 | 10 | 3 | 3UA | 2 | None | Travelling | During Dredging |
| | | | 1925 | 808833.716 | 824198.037 | | | | | | | | |
| 13 | 09/10/2008 | 1427 | 1925 | 808833.716 | 824198.037 | 100 | 35 | 1 | 1UA | 3 | None | Travelling | Before Dredging |
| | | | 1970 | 808797.532 | 824171.284 | | | | | | | | |
| 14 | 11/10/2008 | 0839 | 1175 | 809436.783 | 824643.917 | 220 | 15 | 3 | 3 UA | 2 | None | Travelling | Before Dredging |
| | | | 1160 | 809448.845 | 824652.835 | | | | | | | | |
| 15 | 12-Oct-08 | 0839 | 1125 | 809476.988 | 824673.643 | 240 | 160 | 1 | 1UA | 2 | None | Travelling | During Dredging |
| 4.0 | 10/10/0000 | 0040 | 1170 | 809440.804 | 824646.890 | 170 | 100 | | 400 4 04 4 114 | | | | D (D 1) |
| 16 | 13/10/2008 | 0818 | 1030 | 809553.376 | 824730.121 | 170 | 160 | 3 | 1SS, 1 SA, 1 UA | 2 | None | Breaching, Feeding | Before Dredging |
| 17 | 19/10/2008 | 11:04 | 1025 2730 | 809557.397 808154.203 | 824733.094 823785.196 | 270 | 270 | 2 | 2UA | 2 | None | Travelling | Dredger was moving |
| 17 | 19/10/2008 | 11.04 | 2680 | 808203.670 | 823792.332 | 270 | 270 | 2 | 20A | 2 | none | Travening | Dreuger was moving |
| 18 | 22/10/2008 | 1420 | 3180 | 807705.065 | 823757.391 | 550 | 30 | 3 | 3 UA | 2 | None | Travelling | During Dredging |
| 10 | 22/10/2000 | 1420 | 3220 | 807665.140 | 823754.942 | 330 | 50 | 5 | 5 0 A | 2 | None | Travening | During Dreaging |
| 19 | 22/10/2008 | 1528 | 3180 | 807705.065 | 823757.391 | 180 | 55 | 2 | 2 UA | 2 | None | Travelling | During Dredging |
| - | | | 3220 | 807665.140 | 823754.942 | | | | | | | | |
| 20 | 22/10/2008 | 1625 | 3180 | 807705.065 | 823757.391 | 200 | 45 | 3 | 3UA | 2 | Hang | Feeding | Dredging Stopped |
| | | | 3220 | 807665.140 | 823754.942 | | | | | | | | |
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| *Key | y: | | | # 00 | ompass bearing is u | used (North - | 0 degree) | | | | | | |
| | 11 | .16 | | # 00 | | | | | | | | | |
| | = Unspotted Ca = Unspotted Juv | | | | 1 | | | | | | | | |
| | = Unspotted Juv = Spotted Juver | | | | | | | | | | | | |
| | Spotted Juver Spotted Sub- | | | | | | | | | | | | |
| | = Spotted Sub- | | | | | | | | | | | | |
| | = Unspotted Addit | | | | | | | | | | | | |
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| 19 | 07/03/2008 | 1018 | ST20 | Urmston Road | 450 | 810019.75 | 825074.94 | 11 | 200 | 1 | 1UA | 2 | None | Traveling | |
|----------|------------------|------|-------|--------------|------|------------|------------|---------|--------|---|----------|---|------|--------------|-----------------------------------|
| | | | | | 460 | 810011.71 | 825068.99 | | | | | | | Ŭ | |
| | | | | | | | | | | | | | | Spy-hopping, | |
| | | | | | | | | | | | | | | traveling, | |
| | | | | | | | | | | | | | | breaching, | |
| 20 | 07/03/2008 | 1117 | ST20 | Urmston Road | 450 | 810019.75 | 825074.94 | 180-220 | 70-220 | 1 | 1UA | 2 | None | porpoishing | |
| | | | | | 460 | 810011.71 | 825068.99 | | | | | | | | |
| 21 | 10/03/2008 | 1147 | ST20 | Urmston Road | 1605 | 809091.025 | 824388.279 | 240 | 90 | 2 | 1UA, 1SJ | 2 | None | Travelling | No dredging |
| | | | | | 1540 | 809143.291 | 824426.922 | | | | | | | | |
| | | | | | | | | | | | | | | | Dolphin-watching vessel passed |
| | | | | | | | | | | | | | | | by; Travelling away from dredger; |
| 22 | 12/03/2008 | 1150 | GD654 | Urmston Road | 1600 | 809095.045 | 824391.252 | 240 | 75 | 2 | 2UA | 3 | None | Travelling | During dredging |
| | | | | | 1555 | 809131.229 | 824418.005 | | | | | | | | |
| | | | | | | | | | | | | | | | Wandering around between |
| | | | | | | | | | | | | | | | distance of 80-300m from |
| | | | | | | | | | | | | | | | dredger and stayed for ~6mins; |
| 23 | 12/03/2008 | 1220 | GD654 | Urmston Road | 1600 | 809095.045 | 824391.252 | 80 | 60 | 2 | 1UA, 1SJ | 3 | None | Feeding | No dredging |
| | | | | | 1555 | 809131.229 | 824418.005 | | | | | | | | |
| 24 | 21/032008 | 1620 | GD31 | Urmston Road | 550 | 809939.34 | 825015.48 | 51 | 150 | 2 | 2UA | 2 | None | Travelling | - |
| | | | - | | 560 | 809931.29 | 825009.54 | | | | | | | | |
| 25 | 25/03/2008 | 1110 | GD31 | Urmston Road | 750 | 807161.08 | 823724.02 | 50 | 30 | 1 | 1UA | 2 | None | Travelling | - |
| | | | | | 760 | 807111.18 | 823720.96 | | | | | | | | |
| *Key: | | | | | | | | | | | | | | | |
| Key: | | | | | | | | | | | | | | | |
| | Unspotted Calf | | | | | | | | | | | | | | |
| | Unspotted Juver | ailo | | | | | | | | | | | | | |
| | Spotted Juvenile | | | | | | | | | | | | | | |
| | Spotted Sub-ad | | | | | | | | | | | | | | |
| | Spotted Adult | uit | | | | | | | | | | | | | |
| | Unspotted Adult | | | | | | | | | | | | | | |
| UA = | Unspolled Adult | L | | | | | | | | | | | | | |
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| Sighting | | | | Dredger | Dredger 6 Coordinates (E- | Sighting - Distance | #Sighting Angle from | | Group | | | | |
|----------|------------|-------|------|-------------|------------------------------|------------------------|----------------------|------------|-----------------|----------|------------------|------------------------|--------------------|
| | | | | Coordinates | | | | | | | | | |
| No. | Date | Time | | (N-Lat) | Long) | (m) | Dredging Machine (o) | Group size | Composition* | Beaufort | Boat Association | Behaviour | Other comments |
| 1 | 2/9/2008 | 1000 | 4315 | 823838.545 | 806678.150 | 275 | 320 | 4 | 2UA, 1 SA, 1 SJ | 1 | None | Feeding, Travelling | Before Dredging |
| | | | 4321 | 823840.556 | 806672.460 | | | | | | | | |
| 2 | 2/9/2008 | 1024 | 4315 | 823838.545 | 806678.150 | 80 | 5 | 2 | 2UA | 1 | None | Breaching, Spy-hopping | Before Dredging |
| | | | 4321 | 823840.556 | 806672.460 | | | | | | | | |
| 3 | 2/9/2008 | 1035 | 4315 | 823838.545 | 806678.150 | 300 | 330 | 2 | 1UA, 1SA | 1 | None | Travelling | Before Dredging |
| | | | 4321 | 823840.556 | 806672.460 | | | | | | | | |
| 4 | 2/9/2008 | 1045 | 4315 | 823838.545 | 806678.150 | 220 | 75 | 3 | 1UA, 1SA, 1UJ | 1 | None | Travelling | Before Dredging |
| | | | 4321 | 823840.556 | 806672.460 | | | | | | | | |
| 5 | 2/9/2008 | 1108 | 4315 | 823838.546 | 806678.151 | 400 | 330 | 1 | 1SA | 1 | None | Travelling | Before Dredging |
| | | | 4321 | 823840.557 | 806672.461 | | | | | | | | |
| 6 | 2/9/2008 | 1411 | 4315 | 823838.547 | 806678.152 | 50 | 0 | 1 | 1UA | 2 | None | Travelling | During Dredging |
| | | | 4321 | 823840.558 | 806672.462 | | | | | | | • | |
| 7 | 2/9/2008 | 1530 | 4315 | 823838.548 | 806678.153 | 350 | 150 | 2 | 2UA | 2 | None | Travelling | During Dredging |
| | | | 4321 | 823840.559 | 806672.463 | | | | | | | • | |
| 8 | 3/9/2008 | 1535 | 4306 | 823841.180 | 806687.338 | 155 | 300 | 2 | 2UA | 1 | None | Travelling | During Dredging |
| | | | 4300 | 823842.903 | 806693.345 | | | | | | | | |
| 9 | 4/9/2008 | 1336 | 4306 | 823841.181 | 806687.339 | 380 | 190 | 2 | 2UA | 2 | None | Travelling | During Dredging |
| | | | 4300 | 823842.904 | 806693.346 | | | | | | | | |
| 10 | 5/9/2008 | 1711 | 4315 | 823838.546 | 806678.151 | 80 | 15 | 1 | 1UA | 2 | None | Travelling | Dredging Stopped |
| | | | 4321 | 823840.557 | 806672.461 | | | | | | | | |
| 11 | 30/9/2008 | 1050 | 3925 | 823794.421 | 807000.841 | 250 | 350 | 4 | 4UA | 2 | None | Travelling | Before Dredging |
| | | | 4015 | 823867.660 | 806948.534 | | | | | | | ¥ | |
| 12 | 9/10/2008 | 1001 | 1900 | 824212.899 | 808853.818 | 200 | 10 | 3 | 3UA | 2 | None | Travelling | During Dredging |
| | | | 1925 | 824198.037 | 808833.716 | | | | | | | • | |
| 13 | 9/10/2008 | 1427 | 1925 | 824198.037 | 808833.716 | 100 | 35 | 1 | 1UA | 3 | None | Travelling | Before Dredging |
| | | | 1970 | 824171.284 | 808797.532 | | | | | | | * | ~ ~ ~ |
| 14 | 11/10/2008 | 0839 | 1175 | 824643.917 | 809436.783 | 220 | 15 | 3 | 3 UA | 2 | None | Travelling | Before Dredging |
| | | | 1160 | 824652.835 | 809448.845 | | | | | | | * | ~ ~ ~ |
| 15 | 12/10/2008 | 0839 | 1125 | 824673.643 | 809476.988 | 240 | 160 | 1 | 1UA | 2 | None | Travelling | During Dredging |
| | | | 1170 | 824646.890 | 809440.804 | | | | | | | * | |
| 16 | 13/10/2008 | 0818 | 1030 | 824730.121 | 809553.376 | 170 | 160 | 3 | 1SS, 1 SA, 1 UA | 2 | None | Breaching, Feeding | Before Dredging |
| | | | 1025 | 824733.094 | 809557.397 | | | | | | | <u> </u> | |
| 17 | 19/10/2008 | 11:04 | 2730 | 823785.196 | 808154.203 | 270 | 270 | 2 | 2UA | 2 | None | Travelling | Dredger was moving |
| | | | 2680 | 823792.332 | 808203.670 | | | | | | | | |
| 18 | 22/10/2008 | 1420 | 3180 | 823757.391 | 807705.065 | 550 | 30 | 3 | 3 UA | 2 | None | Travelling | During Dredging |
| | | | 3220 | 823754.942 | 807665.140 | | | | | | | ~ | 2 0 0 |
| 19 | 22/10/2008 | 1528 | 3180 | 823757.392 | 807705.066 | 180 | 55 | 2 | 2 UA | 2 | None | Travelling | During Dredging |
| | | | 3220 | 823754.943 | 807665.141 | | | | | | | 5 | 5 5 5 5 |
| 20 | 22/10/2008 | 1625 | 3180 | 823757.393 | 807705.067 | 200 | 45 | 3 | 3UA | 2 | Hang | Feeding | Dredging Stopped |
| | | | 3220 | 823754.944 | 807665.142 | | | | | | Ŭ | <u> </u> | |

| | | | | Dredger | Dredger | Sighting | | | | | | | |
|----------|-------------------------|------|------|-------------|---------------------|---------------|----------------------------------|-------------------|--------------------|----------|-------------------------|--|------------------|
| Sighting | | | | Coordinates | Coordinates (E- | Distance | #Sighting Angle from | | Group | | | | |
| No. | Date | Time | | (N-Lat) | Long) | (m) | Dredging Machine (o) | Group size | Composition* | Beaufort | Boat Association | Behaviour | Other comments |
| 21 | 7/11/2008 | 1210 | 3690 | 823726.168 | 807196.022 | 700 | 345 | 5 | 3UA, 2SA | 2 | Hang | Travelling, Feeding | Dredging Stopped |
| | | | 3760 | 823721.882 | 807126.153 | | | | | | | | |
| 22 | 7/11/2008 | 1618 | 1040 | 824724.176 | 809545.335 | 200 | 45 | 1 | 1UA | 1 | None | Travelling | During Dredging |
| | | | 1015 | 824739.039 | 809565.468 | | | | | | | | |
| 23 | 10/11/2008 | 1249 | 930 | 824789.572 | 809633.785 | 20 | 275 | 1 | 1UA | 3 | None | Travelling | Dredging Stopped |
| | | | 905 | 824804.435 | 809653.888 | | | | | | | | |
| 24 | 11/11/2008 | 1605 | 840 | 824843.078 | 809706.153 | 30 | 97 | 1 | 1UA | 3 | None | Travelling | During Dredging |
| | | | 820 | 824854.968 | 809722.235 | | | | | | | | |
| 25 | 16/11/2008 | 0843 | 2080 | 824105.888 | 808709.082 | 290 | 270 | 1 | 1UA | 2 | None | Travelling | During Dredging |
| | | | | | | | | | | | | | |
| 26a | 21/11/2008 | 1430 | 4074 | 823904.923 | 806909.628 | 50 | 70 | 5 | 2UA, 2SS, 1UJ | 2 | None | Travelling, Breaching, Porpoising, Feeding | During Dredging |
| | | | 4059 | 823904.280 | 806922.380 | | | | | | | | |
| 26b | 21/11/2008 | 1430 | 4074 | 823904.923 | 806909.628 | 300 | 335 | 6 | 2UA, 2SA, 1SJ, 1UC | 2 | None | Travelling, Breaching, Feeding | During Dredging |
| | | | 4059 | 823904.280 | 806922.380 | | | | | | | | |
| | | | | | | | ne at 3350, so they are regarded | d as one sighting | | | | - | |
| 27 | 22/11/2008 | 1558 | 545 | 825018.457 | 809946.360 | 100 | 325 | 1 | 1UA | 3 | None | Travelling | During Dredging |
| | | | 490 | 825051.155 | 809987.585 | 100 | 0.45 | | | | | - | |
| 28 | 24/11/2008 | 1220 | 3770 | 823721.270 | 807116.172 | 400 | 345 | 1 | 1UA | 4 | None | Travelling | Dredging Stopped |
| | | | 4030 | 823879.867 | 806939.816 | | 005 | | | | | — | |
| 29 | 24/11/2008 | 1233 | 3770 | 823721.270 | 807116.172 | 250 | 305 | 3 | 2UA, 1SS | 4 | None | Travelling | Dredging Stopped |
| | | | 4030 | 823879.867 | 806939.816 | | | | | | | | |
| *Ke | v: | | | # Compass | s bearing is used (| North – 0 dea | | | | | | | |
| | | | | | | | | | | | | | |
| UC | UC = Unspotted Calf | | | | | | | | | | | | |
| UJ = | UJ = Unspotted Juvenile | | | | | | | | | | | | |
| SJ = | SJ = Spotted Juvenile | | | | | | | | | | | | |
| SS | SS = Spotted Sub-adult | | | | | | | | | | | | |
| SA | SA = Spotted Adult | | | | | | | | | | | | |
| UA | = Unspotted Ad | lult | | | | | | | | | | | |
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