

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

**Tenth Monthly Environmental Monitoring and Audit Report – August 2007**

10<sup>th</sup> September 2007

**Environmental Resources Management**

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# Permanent Aviation Fuel Facility (EP-262/2007) Tenth Monthly Environmental Monitoring and Audit Report – August 2007

10<sup>th</sup> September 2007

Prepared by: Bill Tsang/Craig A Reid

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| For and on behalf of<br>Environmental Resources Management |   |
| Approved by:   | Craig A Reid  |
| Signed:  |  |
| Position:  | Environmental Team Leader   |
| Date:  | 10 <sup>th</sup> September 2007   |

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


#### Reference Document/Plan

|  |  |
|--|--|
| Document/ <del>Plan</del> to be Certified/ Verified: | 10 <sup>th</sup> Monthly EM&A Report - August 2007 |
| Date of Report:                                      | 10 <sup>th</sup> September 2007                    |
| Date received by ET:                                 | 10 <sup>th</sup> September 2007                    |
| Date received by IEC:                                | 11 <sup>th</sup> September 2007                    |

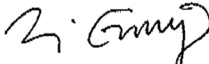
#### Reference EP Condition

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

#### ET Certification

|  |   |
|--|---|
| I hereby certify that the above referenced document/ <del>plan</del> complies with the above referenced condition of EP-262/2007 |   |
| Craig A Reid, Environmental Team Leader:   |  Date: 10 <sup>th</sup> September 2007 |

#### IEC Verification

|   |   |
|---|---|
| I hereby verify that the above referenced document/ <del>plan</del> complies with the above referenced condition of EP-262/2007 |   |
| Dr Guiyi Li, Independent Environmental Checker:   |  Date: 11/9/07 |

Notes: EP-262/2007 has replaced the former EP-139-2002/A for the PAFF project after the resubmission of revised EIA Report.

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## ***EXECUTIVE SUMMARY***

The construction works for the Permanent Aviation Fuel Facility resumed on 9<sup>th</sup> July 2007. This tenth monthly Environmental Monitoring and Audit (EM&A) report presents the EM&A works carried out during the period from 1<sup>st</sup> to 31<sup>st</sup> August 2007 in accordance with the EM&A Manual.

### *Breaches of all Action and Limit Levels*

No breaches of action or limit levels occurred during the reporting month as no monitoring was undertaken.

### *Complaint Log*

No environmental complaint was received during the reporting period.

### *Notifications of any Summons and Successful Prosecutions*

No environmental summon or prosecutions was received in this reporting period.

### *Reporting Changes*

There were no reporting changes in the reporting period.

### *Future Key Issues*

- Arrangements for baseline water quality monitoring for the commencement of dredging works;
- Noise from operating machinery and equipment;
- Capability of temporary drainage system to properly collect, treat and dispose of site runoff;
- Dust release and suppression.

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 was 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 28<sup>th</sup> 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 EPD in February 2004.

However, the decision by EPD to grant the above Environmental Permit was 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.

The construction works and EM&A requirements were resumed on 9<sup>th</sup> July 2007 following the latest requirements of the EP-262/2007 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 10<sup>th</sup> EM&A Report which summarizes the monitoring results and audit findings for the EM&A programme during the reporting period from **1<sup>st</sup> August** to **31<sup>st</sup> August 2007**.

## 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 B*.

### 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 A*.

### 2.3 MAJOR CONSTRUCTION ACTIVITIES

A summary of the major works undertaken in this reporting period is shown in *Table 2.1*.

*Table 2.1 Summary of Works Undertaken During the Reporting Period*

| Area             | Works undertaken  |
|------------------|---|
| Tuen Mun Area 38 | Tank Farm and Bund Wall Construction<br>Permanent Drainage Construction<br>Operational & Fire Services Buildings Construction<br>Minor Jetty Works (Non-piling)<br>Site Investigation |

### 2.4 MONITORING SCHEDULE OF THE REPORTING MONTH

No monitoring was conducted during the reporting period. Water monitoring is expected to commence towards October 2007.

### 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 2.2*.

**Table 2.2** *Summary of Environmental Licensing, Notification and Permit Status*

| <b>Permit/ Licenses/<br/>Notification</b>   | <b>Reference</b>         | <b>Validity Period</b>             | <b>Remarks</b>  |
|---|--------------------------|------------------------------------|---|
| Environmental Permit  | EP-262/2007              | Throughout Project                 | Issued on 31 May 2007 (EP-139/2002 originally granted on 28 August 2002 and EP-139/2002/A 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/D G/DH/PL | Throughout Project                 | Notification on 6 July 2007   |
| Construction Noise Permit   | GW-RW0372-07             | 25 July 2007 to 24 January 2008    | For 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-RW0427-07             | 28 August 2007 to 27 February 2008 | For concrete pump derrick barges, hand-held grinders, generators, air compressors, boring machines, water pumps, tug boat, grout mixers and grout pumps   |
| Wastewater Discharge License  | EP760/421/011399/1       | 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 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 first CLG meeting cum site visit was held on 27 July 2007.

The details of PAFF CLG (including Membership and its Terms of Reference) and the meeting minutes can be found on the Project website ([www.paffhk.com](http://www.paffhk.com)).



## 2.7

### **SUMMARY OF NON-COMPLIANCE WITH THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS**

#### *Summary of Environmental Non-compliance*

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

#### *Summary of Environmental Complaints*

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

#### *Summary of Environmental Summons*

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

### 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 2<sup>nd</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup> August 2007. The inspection on 2<sup>nd</sup> August 2007 was also carried out by the Independent Environmental Checker (IEC). Overall, the site was in good orderly manner and no non-compliance was found. Environmental deficiencies and follow-up actions/mitigation measures were identified during the inspections, as follows:

#### *Air Quality*

- During the site audit on 29<sup>th</sup> August 2007, the construction material at the stockpile area was observed to be loaded without spraying with water. The Contractor is recommended to implement good site practice to spray the loading materials prior and / or during loading to minimise dust generation. Corrective action was taken by the Contractor in the reporting period.
- Excessive exhaust fumes were emitted from the drilling rig near the site entrance during the site audit on 29<sup>th</sup> August 2007. The Contractor was recommended to replace the machine ASAP. Corrective action was taken by the Contractor in the reporting period.
- Water tankers were used regularly to wet the road surface to minimize dust emission.
- Earth mounds and large stockpiles were hydro-seeded or covered to avoid dust emission.
- Site entrance was paved and wheel-washing facility was provided to avoid dust deposit on the public road.
- Main access road within the site (between site office and exit) was paved to avoid dust emission. Other sections of the major access road in the construction area were paved with stones.

#### *Noise*

- No noisy activities were conducted during the audit.
- All air compressors on site were operated with a valid noise label.

### *Water Quality*

- Sediment plume was observed at the outfall of the temporary drainage system during the site audit on 22<sup>nd</sup> August 2007 after a rainstorm. The Contractor was recommended to upgrade the design for the temporary drainage system in order to ensure the quality of discharged water complies with the standards stipulated under the Water Discharge Licence. Corrective action was taken by the Contractor in the reporting period.
- Ponding of rainwater was observed at areas around tank 1 and tank 3 during the site audit on 15<sup>th</sup> August 2007 and outside the site office on 22<sup>nd</sup> August 2007. The Contractor was recommended to provide sufficient pumps to remove the water via the temporary drainage system particularly after rainstorm. Corrective action was taken by the Contractor in the reporting period.
- Site toilets were provided on site. A soil soakaway system with holding tanks was installed to treat the sewage from the toilets. No effluent discharge out of the site was made.
- The site canteen is no longer in operation and hence no waste water is generated.

### *Waste Management*

- Construction waste was observed to be disposed of in the general waste skip outside the site office during the audit on 29<sup>th</sup> August 2007. The Contractor was recommended to dispose of the construction in a proper manner. Corrective action was taken by the Contractor in the reporting period.
- Disposal of stockpiled construction waste to public fill bank resumed. Trip tickets were properly kept by the Contractor.
- Chemical waste was properly labeled and stored in the two dedicated chemical waste stores on site.

### *Landscape and Visual*

- The transplanted trees at the new site were in good and healthy conditions; and,
- The berm was dominated by vegetation.

Overall, the site was in a good orderly manner. Suitable mitigation measures, such as the use of water truck regularly and tarpaulin covers should be used to ensure dust emission is avoided on site.

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 C*.

### **3.3** *ENVIRONMENTAL MONITORING*

#### **3.3.1** *Air and Noise*

Air and Noise monitoring was not required for the project.

#### **3.3.2** *Water Quality*

Water quality monitoring at the monitoring stations was not required as no dredging activity was taken place.

According to the Wastewater Discharge License (Industrial Trade Effluent) issued by the EPD on 15<sup>th</sup> March 2006, the Contractor is required to conduct grab sampling/analysis on SS at the discharge point(s) quarterly. The Contractor was aware of the sampling and will comply with the requirement.

#### **3.3.3** *Waste Management*

The Contractor's revised Waste Management Plan (Revision 4) (WMP) was submitted to the ET for review on 18<sup>th</sup> July 2007. The review was completed on 31<sup>st</sup> August 2007. The WMP is expected to be submitted to EPD within the next reporting month.

#### **3.3.4** *Cultural Heritage*

As no dredging activity was conducted along the pipe trench during the reporting period, marine archaeological monitoring was not required.

#### **3.3.5** *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 dominated by vegetation which was grown during the project suspension period. The transplanted trees were in good and healthy conditions.

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

### **3.3.6** *Land Contamination, Hazard to Life and Fuel Spill Risk*

According to the EIA report and EM&A Manual, mitigation measures and design phase audit are required to minimise the risk of fuel spill and hazards. The Contractor will submit the updated design audit plan according to the EP requirements.

Pursuant to Condition 3.5 of the EP, the Contractor submitted two design drawings entitled Fencing and Security Wall Layout Plan (PAFF/LC/02/DWG/C/0176 Revision A) and Fencing and Security Wall Section (PAFF/LC/02/DWG/C/0177 Revision A) to the ET for certification on 30<sup>th</sup> July 2007. The ET reviewed the drawings and offered comment on the design of the security walls and bund walls, taking into account of Condition 3.5a of the EP, to the Contractor on 31<sup>st</sup> August 2007. Response to comment from the Contractor is still awaited during the reporting month.

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

### **3.3.7** *Ecology*

#### *Dolphin Visual Monitoring*

No dolphin monitoring was conducted as there were no dredging activities during the reporting period.

### **3.3.8** *EM&A Manual*

The EM&A Manual for the Project is being 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. The EM&A Manual is expected to be submitted to EPD by mid-September 2007.

## 4 *FUTURE KEY ISSUES*

### 4.1 *KEY ISSUES FOR THE NEXT ONE MONTH*

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

- Arrangements for baseline water quality monitoring for the commencement of dredging works;
- Noise from operating machinery and equipment;
- Capability of temporary drainage system to properly collect, treat and dispose of site runoff;
- Dust release and suppression.

### 4.2 *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 impact will arise.






### 4.3 *WORKS AND MONITORING SCHEDULE FOR THE NEXT ONE MONTH*

Work programme for the next one month includes jetty platform works (non-piling) and site works (construction works for tank farm, operational and fire services buildings, drainages, bund wall, security wall, site investigation etc). Weekly site inspections will be undertaken.

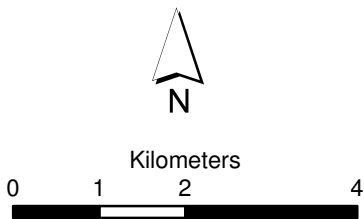
Annex A

Water Quality Monitoring  
Stations, Water Quality and  
Ecological Sensitive  
Receivers

**KEY**

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

Marine Park  
(Water Sensitive Receiver)



Annex A

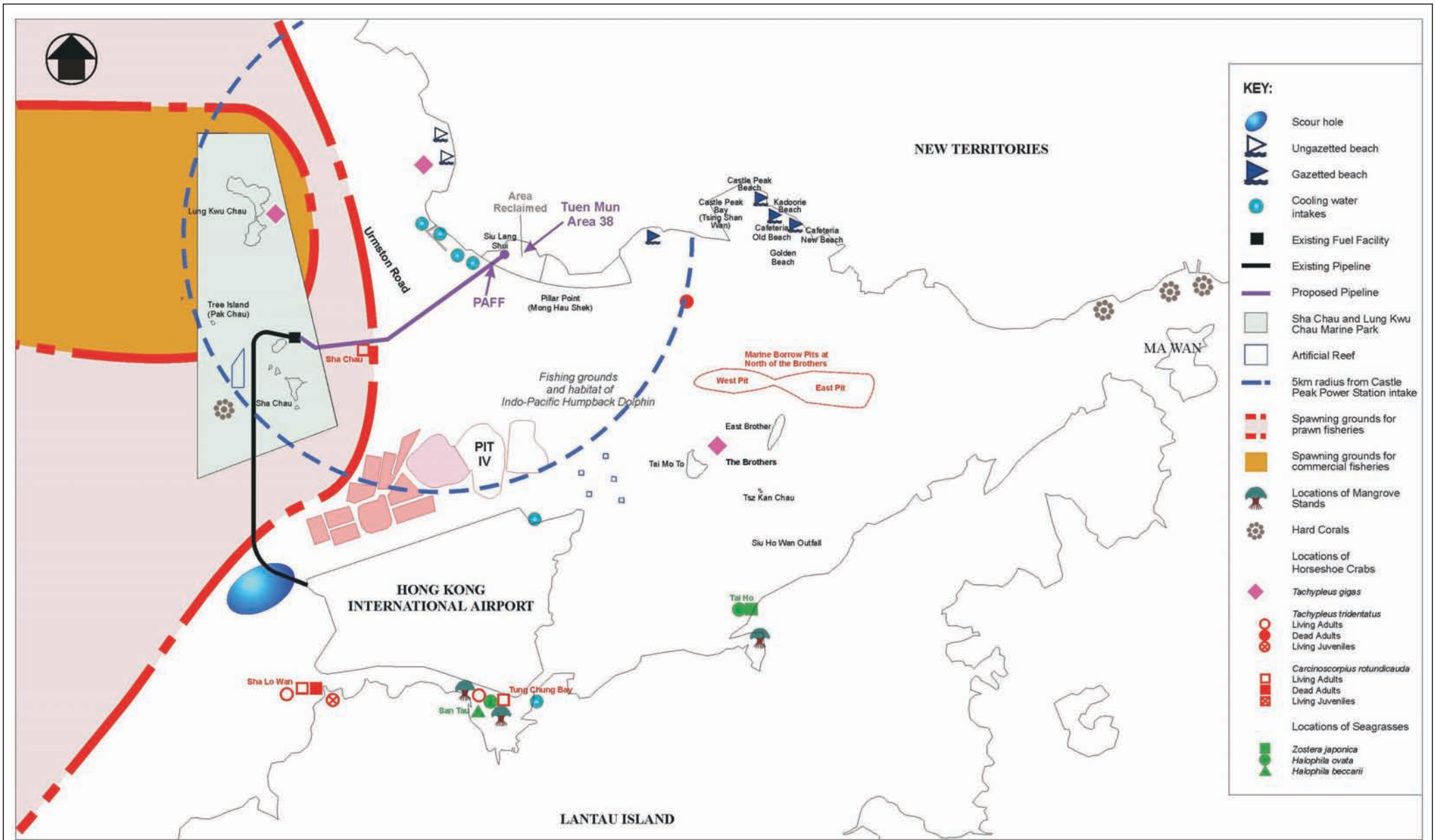
### Water Sensitive Receiver and Water Quality Monitoring Locations

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Date: 23/01/2006

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Annex A

Water Quality and Ecological Sensitive Receivers

FILE: C2475aa  
DATE: 25/01/2006

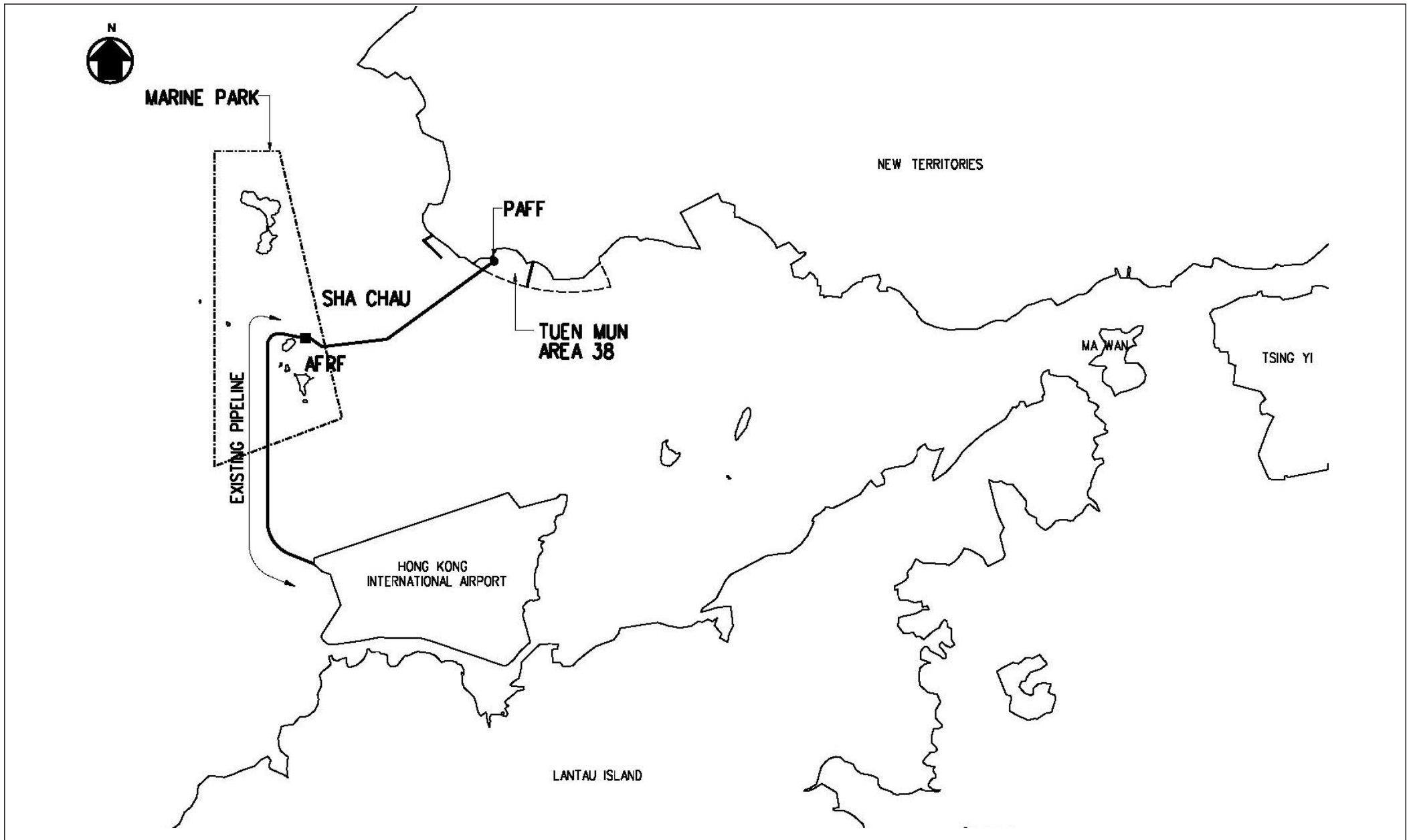
(Source : PAFF for Hong Kong International Airport EIA, Mouchel 2002)

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Annex B

## Project Location



Annex B

Location of PAFF

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Annex C

## Implementation Programme of Mitigation Measures

## ANNEX C IMPLEMENTATION SCHEDULE

| EIA Reference        | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing                   | Implementation Agent | Relevant Standard or Requirement                               | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|----------------------|-----------------------|---|-------------------------------------|----------------------|--|-------------------------|---|---|--------------------|-----------------------|
|                      |                       |   |                                     |                      |  | D                       | C | O |                    |                       |
| <b>Water Quality</b> |                       |   |                                     |                      |  |                         |   |   |                    |                       |
| 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                | Pending               |
| 6.7                  | 6.8.1                 | No hydraulic dredging within Marine Park.   | Marine Park / Pipeline Dredging     | Contractor           | TMEIA  |                         | Y |   | N/A                | Pending               |
| 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                | Pending               |
| 6.4                  |                       | The work rate for dredging should not exceed 4,000 m <sup>3</sup> /hr for the TSHD and 7,000 m <sup>3</sup> /day for the grab dredger.      | Marine Park / Pipeline Dredging     | Contractor           | TMEIA  |                         | Y |   | N/A                | Pending               |
| 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                | Pending               |
| 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                | Pending               |
| 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                | Pending               |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures  | Location / Timing                      | Implementation Agent | Relevant Standard or Requirement                               | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|---------------|-----------------------|--|--|----------------------|--|-------------------------|---|---|--------------------|-----------------------|
|               |                       |  |  |                      |  | D                       | C | O |                    |                       |
| 6.7           | 6.8.1                 | Barges and hopper dredgers shall have tight fittings seals to their bottom openings to prevent leakage of material.  | Dredged areas/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |
| 6.7           | 6.8.1                 | Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes   | Dredged areas/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |
| 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/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |
| 6.7           | 6.8.1                 | Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved.   | Dredged areas/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |
| 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/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |
| 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/<br>Pipeline<br>Dredging | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions | Y                       |   |   | N/A                | Pending               |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures  | Location / Timing                            | Implementation Agent | Relevant Standard or Requirement                               | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|---------------|-----------------------|--|--|----------------------|--|-------------------------|---|---|--------------------|-----------------------|
|               |                       |  |  |                      |  | D                       | C | O |                    |                       |
| 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/<br>Pipeline<br>Dredging       | Contractor           | TMEIA Marine Fill Committee Guidelines. DASO permit conditions |                         | Y |   | N/A                | Ongoing               |
| 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/<br>Pipeline<br>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/<br>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/<br>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/<br>Throughout construction period | Contractor           | TMEIA ProPECC Note 1/94. WPCO TM on Effluent Standards         |                         | Y |   | N/A                | Ongoing               |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing                            | Implementation Agent | Relevant Standard or Requirement                          | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|---------------|-----------------------|---|--|----------------------|---|-------------------------|---|---|--------------------|-----------------------|
|               |                       |   |  |                      |   | D                       | C | O |                    |                       |
| 6.7           | 6.8.1                 | 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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Temporary access roads should be surfaced with crushed stone or gravel.   | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.  | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>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/<br>Throughout construction period | Contractor           | TMEIA<br>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) on site should be covered with tarpaulin or similar fabric during rainstorms.  | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |



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|               |                       |   |  |                      |   | D                       | C | O |                    |                       |
| 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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain.  | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | The section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel.  | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects.   | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for off site disposal. | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |

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|               |                       |  |  |                      |   | D                       | C | O |                    |                       |
| 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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 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/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | All fuel tanks and chemical storage areas should be provided with locks and be sited on sealed areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank. | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Surface run-off from bunded areas should pass through oil/grease traps prior to discharge to the stormwater system.  | Land site/<br>Throughout construction period | Contractor           | TMEIA<br>ProPECC Note 1/94. WPCO TM on Effluent Standards |                         | Y |   | N/A                | Ongoing               |
| 6.7           | 6.8.1                 | Wastewater from pipe commissioning dewatering exercises shall be stored on site and for chemical analysis and safe disposal in accordance with the WPCO.   | Tank<br>Farm/Tank farm commissioning         | Franchisee           | TMEIA<br>WPCO TM on Effluent Standards                    |                         | Y |   | N/A                | Ongoing               |
| 6.7           | Section 6             | All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.  | Land site/<br>Throughout construction period | Contractor           | EM&A Manual   |                         | Y |   | N/A                | Ongoing               |
| 6.7           | Section 6             | Submarine section of aviation fuel pipeline shall be covered with rock armour protection which shall not protrude above the level of the adjacent natural seabed.  | Submarine pipeline                           | Franchisee           | TMEIA<br>Rock armour to minimum thickness of 1m           | Y                       | Y |   | Franchisee         | Pending               |

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|               |                       |   |                   |                      |  | D                       | C | O |                    |                       |
| 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               |
| 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         | Pending               |
| 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         | Pending               |
| 6.7           | Section 6             | All tanks shall be bunded to a capacity of at least 150% of the largest individual tank in each compound by 2040. Tank pits shall be protected by an impermeable bed (e.g. geotextile sheeting) to prevent seepage of aviation fuel to ground. A leak detection system shall be installed beneath the containment membrane. | Tank farm         | Franchisee           | TMEIA Hong Kong Code of Practice for Oil Installations, 1992           |                         |   | Y | Franchisee         | Pending               |
| 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         | Pending               |

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing  | Implementation Agent | Relevant Standard or Requirement                             | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
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|               |                       |   |  |                      |  | D                       | C | O |                    |                       |
| 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         | Pending               |
| 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                | Pending               |

| EIA Reference  | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing  | Implementation Agent | Relevant Standard or Requirement | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
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|                |                       |   |  |                      |                                  | D                       | C | O |                    |                       |
| 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.<br>Location and frequency to be determined and agreed with relevant authorities | Franchisee           | EM&A Manual                      |                         | Y |   | N/A                | Pending               |
| <b>Ecology</b> |                       |   |  |                      |                                  |                         |   |   |                    |                       |
| 7.8            | 5.3                   | Undertake post construction dolphin abundance monitoring.   | Construction   | Contractor           | TMEIA                            |                         | Y |   | N/A                | Pending               |
| 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/throughout dredging in Marine Park and along the length of pipeline            | Contractor           | TMEIA                            |                         | Y |   | N/A                | Pending               |

| EIA Reference                 | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing  | Implementation Agent | Relevant Standard or Requirement | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
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|                               |                       |   |  |                      |                                  | D                       | C | O |                    |                       |
| 7.8                           | 5.3                   | Works will be restricted to a daily maximum of 12 hours within daylight hours.  | Throughout dredging in Marine Park and along the length of the pipeline except for the section crossing Urmston Road Channel | Contractor           | TMEIA                            |                         | Y |   | N/A                | Pending               |
| 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                | Pending               |
| <b>Landscape &amp; Visual</b> |                       |   |  |                      |                                  |                         |   |   |                    |                       |
| 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               |

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|               |                       |  |   |                      |                                  | D                       | C | O |                    |                       |
| 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.  | PAFF site / Operational phase                                     | Project Proponent    | TMEIA                            | Y                       | Y | Y | N/A                | Ongoing               |

| EIA Reference            | EM&A Manual Reference | Environmental Protection Measures  | Location/ Timing               | Implementation Agent | Relevant Standard or Requirement | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
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|                          |                       |  |                                |                      |                                  | D                       | C | O |                    |                       |
| <b>Cultural Heritage</b> |                       |  |                                |                      |                                  |                         |   |   |                    |                       |
| 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: <ul style="list-style-type: none"> <li>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;</li> <li>A marine archaeologist shall be on board the dredging barge during dredging within 25m either side of SS1 and SS2 in the event of any unusual resistance occurring or blockages which requires the dredge head to be brought on deck for cleaning and examination; and,</li> </ul> | Within vicinity of SS1 and SS2 | Franchisee           | TMEIA                            |                         | Y |   | N/A                | Pending               |



| EIA Reference          | EM&A Manual Reference | Environmental Protection Measures  | Location / Timing            | Implementation Agent | Relevant Standard or Requirement | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
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|                        |                       |  |                              |                      |                                  | D                       | C | O |                    |                       |
|                        |                       | <ul style="list-style-type: none"> <li>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.</li> </ul>                                       |                              |                      |                                  |                         |   |   |                    |                       |
| 9.8.2                  | 9.2.1                 | During the course of the watching brief, if the targets are identified as being potentially archaeologically important, then an immediate marine archaeological impact assessment in accordance with EIAO TM Annex 19 will be required to be undertaken by a qualified marine archaeologist. | With vicinity of SS1 and SS2 | Franchisee           | TMEIA                            |                         | Y |   | N/A                | Pending               |
| 9.8.4                  | 9.2.1                 | Any changes, additions or alterations to the dredging method and alignment should be further assessed by marine archaeologist to determine if any further assessment is required.  | Pipeline alignment           | Franchisee           | TMEIA                            |                         | Y |   | N/A                | Pending               |
| <b>Fuel Spill Risk</b> |                       |  |                              |                      |                                  |                         |   |   |                    |                       |
| 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                | Pending               |
| 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                | Pending               |
| 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                | Pending               |
| 11.4.1                 | 10.2                  | Pipeline to be covered with a protective rock armour layer.  | Pipelines/ Design Phase      | Franchisee           | TMEIA                            |                         | Y |   | Franchisee         | Pending               |

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|---------------|-----------------------|--|--|----------------------|----------------------------------|-------------------------|---|---|--------------------|-----------------------|
|               |                       |  |  |                      |                                  | D                       | C | O |                    |                       |
| 11.4.1        | 10.2                  | An integrated leak detection system shall be installed to all pipelines to provide early detection of any leak.  | Pipelines/ Design Phase                            | Franchisee           | TMEIA                            | Y                       |   |   | N/A                | Pending               |
| 11.4.1        | 10.2                  | An automatic shut-off system shall be implemented for pipelines.   | Pipelines/ Design Phase                            | Franchisee           | TMEIA                            | Y                       |   |   | N/A                | Pending               |
| 11.4.1        | 10.2                  | A workboat shall be on standby at the jetty during tanker berthing.  | Jetty/ During Tanker Berth                         | Franchisee           | TMEIA                            | Y                       | Y |   | N/A                | Pending               |
| 11.4.1        | 10.2                  | Skimmers shall be available for quick deployment in case of a spill.   | Jetty/ During Tanker Berth                         | Franchisee           | TMEIA                            | Y                       | Y |   | N/A                | Pending               |
| 11.4.1        | 10.2                  | An emergency response plan shall be prepared prior to the operation of the PAFF.   | Jetty/ During Tanker Berth                         | Franchisee           | TMEIA                            | Y                       | Y |   | N/A                | Pending               |
| 11.4.1        | 10.2                  | Operator-training programme shall be implemented.  | Jetty/ During Tanker Berth                         | Franchisee           | TMEIA                            | Y                       | Y |   | N/A                | Pending               |
| 11.6          | 10.4                  | During the planning of the later phase of the tank farm development, in order to ensure that the required mitigation measures are undertaken at that time, review the EIA report only if the latest technology, industrial standards and statutory requirements have changed by that time. | During planning stage for future tank construction | Franchisee           | TMEIA                            |                         | Y |   | N/A                | Pending               |

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|                           |                       |  |   |                      |                                  | D                       | C | O |                    |                       |
| 11.6                      | 10.4                  | Regular inspections and audits will be undertaken by the Franchisee during the operational phase of the facility: <ul style="list-style-type: none"> <li>Two inspections every year of the tank farm, jetty and pipelines including one undertaken pursuant to the Joint Inspection Group (JIG) explained above;</li> <li>Inspection of the whole sub sea pipelines every 5 to 10 years;</li> <li>Health, Safety and Environmental audit of the facility once every 3 years; and,</li> <li>Inspection of the structural integrity of the tanks once per year.</li> </ul> | Operation   | Franchisee           | TMEIA                            |                         |   | Y | N/A                | Pending               |
| 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               |
| <b>Land Contamination</b> |                       |  |   |                      |                                  |                         |   |   |                    |                       |
| 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                | Pending               |
| 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                | Pending               |
| 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                | Pending               |

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|               |                       |   |                    |                      |                                  | D                       | C | O |                    |                       |
| 13.5.1        | 10.2                  | Impermeable lining shall be provided for all tank pits.   | Tank farm / Design | Franchisee           | TMEIA                            | Y                       |   |   | N/A                | Pending               |
| 13.5.1        | 10.2                  | Leak detection systems shall be provided to all valves.   | Tank farm / Design | Franchisee           | TMEIA                            | Y                       |   |   | N/A                | Pending               |
| 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                | Pending               |
| 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 roof 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                | Pending               |
| 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, constructed, operated and maintained in full accordance with the Code of Practice for Oil Installations, 1992.  | Tank farm / Design | Franchisee           | TMEIA                            | Y                       | Y | Y | N/A                | Pending               |
| 13.5.5        | 10.2                  | Tank pressure testing shall be carried out routinely to check for possible tank leaks. Product inventory monitoring shall be integrated into site management procedures to check for any abnormal or unexpected product loss. | Tank farm / Design | Franchisee           | TMEIA                            | Y                       | Y | Y | N/A                | Pending               |
| 13.5.5        | 10.2                  | Tank overflow monitoring systems shall be installed and regularly tested. Inlet valves shall be designed to automatically shutdown on exceedance of "high-high level" to prevent over-filling.                                | Tank farm / Design | Franchisee           | TMEIA                            | Y                       | Y | Y | N/A                | Pending               |

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

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing                         | Implementation Agent | Relevant Standard or Requirement  | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|---------------|-----------------------|---|---|----------------------|---|-------------------------|---|---|--------------------|-----------------------|
|               |                       |   |   |                      |   | D                       | C | O |                    |                       |
| 14.7.2        | 8.3.1                 | The Contractor shall apply for and obtain the appropriate licenses for the disposal of public fill, chemical waste and effluent discharges. | Contract mobilisation                     | Contractor           | TMEIA, Land (Miscellaneous Provisions) Ordinance (Cap 28); Waste Disposal Ordinance (Cap 354); Dumping at Sea Ordinance (Cap 466); Water Pollution Control Ordinance. |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | No waste shall be burnt on site.  | PAFF Site throughout construction period  | Contractor           | TMEIA   |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | Excavated material shall be used on site for purposes of landscaping or formation of bund walls as far as possible.                         | All site / throughout construction period | Contractor           | TMEIA   |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | All material shall be reused on site as far as practicable, including formwork plywood, topsoil and excavated material.                     | All site / throughout construction period | Contractor           | TMEIA   |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | Suitable provisions shall be included in the construction contract to ensure that the Contractor sorts and recycles waste.                  | Contract preparation stage                | HyD                  | TMEIA   |                         | Y |   | N/A                | Ongoing               |

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

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



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

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

| EIA Reference | EM&A Manual Reference | Environmental Protection Measures   | Location / Timing                         | Implementation Agent | Relevant Standard or Requirement | Implementation Schedule |   |   | Maintenance Agency | Implementation Status |
|---------------|-----------------------|---|---|----------------------|----------------------------------|-------------------------|---|---|--------------------|-----------------------|
|               |                       |   |   |                      |                                  | D                       | C | O |                    |                       |
| 14.7.2        | 8.3.1                 | Waste oils, chemicals or solvents shall not be disposed of to drain.  | PAFF site/ throughout construction period | Contractor           | TMEIA                            |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | Good site practice shall be implemented to avoid waste generation and promote waste minimisation.   | PAFF site/ throughout construction period | Contractor           | TMEIA                            |                         | Y |   |                    | Ongoing               |
| 14.7.2        | 8.3.1                 | Waste materials such as paper, metal, timber and waste oil shall be recycled as far as practicable.   | PAFF site/ throughout construction period | Contractor           | TMEIA                            |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | Temporary structures used during construction shall be provided in the form of proprietary Protakabin type units sited on areas of permanent hard paving units as far as practicable. | PAFF site/ throughout construction period | Contractor           | TMEIA                            |                         | Y |   | N/A                | Ongoing               |
| 14.7.2        | 8.3.1                 | Dredged marine mud shall be disposed of in a gazetted marine disposal ground under the requirements of the Dumping at Sea Ordinance.  | PAFF site/ throughout construction period |                      |                                  |                         | Y |   | N/A                | 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               |
| 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               |

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

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

Annex D

## Cumulative Complaints Statistics

## Annex D Cumulative Complaints Statistics

### *Statistical Summary of Environmental Complaints*

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

### *Statistical Summary of Environmental Summons*

| Reporting Period   | Environmental Summons |            |               |
|--|-----------------------|------------|---------------|
|  | Frequency             | Cumulative | Summon Nature |
| 18/11/05 – 15/12/05  | 0                     | 0          | Nil           |
| 16/12/05 – 14/01/06  | 0                     | 0          | Nil           |
| 15/01/06 – 14/02/06  | 0                     | 0          | Nil           |
| 15/02/06 – 14/03/06  | 0                     | 0          | Nil           |
| 15/03/06 – 14/04/06  | 0                     | 0          | Nil           |
| 15/04/06 – 14/05/06  | 0                     | 0          | Nil           |
| 15/05/06 – 14/06/06  | 0                     | 0          | Nil           |
| 15/06/06 – 14/07/06  | 0                     | 0          | Nil           |
| Re-commencement of construction works on 9 <sup>th</sup> July 2007 |                       |            |               |
| 09/07/07 – 31/07/07  | 0                     | 0          | Nil           |
| 01/08/07 – 31/08/07  | 0                     | 0          | Nil           |

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