



**Main Wealth Development Ltd.**

**Yau Tong Bay – Decommissioning of  
Shipyard Sites**

**Quarterly EM&A Summary Report  
for May 2012 to July 2012  
(3<sup>rd</sup> Quarterly EM&A Summary Report)**

[07/2012]

	Name	Signature
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Reviewed, Approved & Certified:	Y T Tang (ETL)	

Version:	Rev. 0	Date: 7 September 2012
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This report is prepared for Main Wealth Development Ltd. and is given for its sole benefit in relation to and pursuant to Yau Tong Bay – Decommissioning of Shipyard Sites and may not be disclosed to, quoted to or relied upon by any person other than Main Wealth Development Ltd. without our prior written consent. No person (other than Main Wealth Development Ltd.) into whose possession a copy of this report comes may rely on this report without our express written consent and Main Wealth Development Ltd. may not rely on it for any purpose other than as described above.

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Hong Kong

10 September 2012

**Attn : Ms. Iris Cheng**

Dear Madam,

**Yau Tong Bay – Decommissioning of Shipyard Sites  
Environmental Permit No. EP-409/2010  
Quarterly EM&A Summary Report for May 2012 to July 2012 (version: Rev. 0)**

Further to the receipt from ET of the captioned Quarterly EM&A Summary Report on 4 and 7 September 2012 via email, pursuant to the Updated EM&A Manual (v. 4), we have no comment on the captioned report (Rev. 0) for Yau Tong Bay.

Yours faithfully  
for MOTT MACDONALD HONG KONG LIMITED



Terence Kong  
Independent Environmental Checker (IEC)



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17 September 2012

Main Wealth Development Ltd.  
72 – 76/F, Two International Finance Centre  
8 Finance Street  
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Hong Kong

Attn: Ms. Iris Cheng

Dear Ms. Cheng,

**Yau Tong Bay – Decommissioning of Shipyard Sites  
Environmental Permit No. EP-409/2010  
Quarterly EM&A Summary Report for May 2012 to July 2012 (Version: V.0)**

With reference to the captioned document verified by IEC on 10 September 2012, we are pleased to provide our confirmation for the document on sections that is specific to soil remediation work pursuant to Condition 5.4 of the Environmental Permit No. EP-409/2010.

Yours faithfully,  
Nature & Technologies (HK) Limited

Ir Dr Gabriel C K Lam  
Independent Environmental Auditor

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## EXECUTIVE SUMMARY

The proposed “Yau Tong Bay – Decommissioning of Shipyard Sites” (hereinafter referred to as “the Project”) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) Schedule 2 and is governed by the Environmental Permit No. EP-409/2010. The Project aims to demolish the past and existing shipyards and their building structures and marine structures and decontaminate identified contaminated spots.

The construction works of the Project was commenced on 21 November 2011 and anticipated to be substantially completed in 2013. The impact Environmental Monitoring and Audit (hereinafter referred to as “EM&A”) programme for the Project commenced on 21 November 2011. The impact EM&A programme includes daytime construction noise and water quality monitoring, soil remediation works monitoring and auditing and site auditing.

This report documents the findings of EM&A works conducted in the period between 1 May 2012 and 31 July 2012.

As informed by the Contractor, major construction activities carried out in the reporting quarter were building demolition of YTML 1, YTML 5-14, YTML 42-46 (Phase 2), building demolition of YTML 27-41 (Phase 3) and general site clearance (Phase 2).

A summary of monitoring and audit activities conducted in the reporting quarter is listed below:

Daytime noise monitoring	7 sessions
Water quality monitoring	0 session
Environmental site inspection	13 sessions

### Breaches of Action and Limit Levels for Daytime Construction Noise

One Action Level exceedance of construction noise was recorded in the reporting quarter, since a noise complaint (referred from EPD) was received on 18 June 2012 and the noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.

No Limit Level exceedance of construction noise was recorded in the reporting quarter.

### Breaches of Action and Limit Levels for Water Quality

Water quality monitoring was not conducted in the reporting quarter as demolition of marine structures was not yet commenced. No Action/Limit Level exceedance of water quality was recorded in the reporting quarter.

### Environmental Complaint, Notification of Summons and Successful Prosecution

One environmental (noise) complaint referred from EPD was received in the reporting quarter.

A noise complaint (referred from EPD) was received on 18 June 2012. The complaint was about the noise from the operation of Powered Mechanical Equipment (PME) from 8:00 to 19:00 from a construction site near Yau Lai Estate during weekdays and general holidays. The noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.

No notification of summons and successful prosecution was received in the reporting quarter.

### Reporting Change

There was no reporting change required in the reporting quarter.

## 行政摘要

「油塘灣—船廠拆卸工程」(以下簡稱「本工程項目」)是一項被臚列於環境影響評估條例(第 499 章)附表 2 中的指定工程項目並受到環境許可證編號 EP-409/2010 所管制。本工程項目的主要目的是要拆除位於油塘灣的舊有和現有的船廠及其建築物和海事結構，以及處理指定的已受污染點。

本工程項目已於二零一一年十一月二十一日竣工並預期於二零一三年完成。本工程項目的施工期間環境監察及審核計劃亦由二零一一年十一月二十一日開始。施工期間環境監察與審核計劃包括：日間建築噪音監測，水質監測，已受污染泥復育工作的監察與審核及工地審核巡查。

本報告記錄了於二零一二年五月一日至二零一二年七月三十一日期間所進行的環境監察與審核工作。

根據承建商提供的資料，在上述的季度的主要建築活動為 YTML1, YTML 5-14, YTML 42-46 的拆卸工程(第二期工程)，YTML 27-41 的拆卸工程(第三期工程) 及清理地盤(第二期工程)。

在上述的季度有下列次數的監察及審核活動進行：

日間建築噪音監測	7 次
水質監測	0 次
環境巡查	13 次

## 違反監測標準

### 日間建築噪音

在二零一二年六月十八日收到一個(由環保署轉介)有關建築噪音的投訴，噪音懷疑是由在高輝道地盤在平日的拆卸工程所產生，推斷此噪音投訴個案與本工程項目有關，所以在上述的季度有一個超出行動水平的日間建築噪音監測結果。

在上述的季度的所有日間建築噪音監測結果皆符合極限水平。

### 水質

因為相關的海事結構拆除工程仍未開始，故沒有水質監測在上述的季度進行。因此，沒有違反水質行動水平和極限水平的記錄。

## 有關收到的環境的投訴，傳票及檢控

在上述的季度收到一宗由環保署轉介之環境(噪音)投訴。

於二零一二年六月十八日，環保署轉介一宗噪音投訴個案。這宗投訴是關於在平日及公眾假期於早上八時至下午七時期間，在油麗邨附近的工程地盤所發出之機械設備的噪音。噪音懷疑是由在高輝道地盤平日的拆卸工程所產生，推斷此噪音投訴個案與本工程項目有關。

在上述的季度沒有收到有關環境的傳票及檢控。

## 報告修訂

本報告季度並沒有修訂報告。

## 1 INTRODUCTION

### 1.1 Background

- 1.1.1. The Project Site of “Yau Tong Bay-Decommissioning of Shipyard Sites” (hereinafter referred to as “the Project”) is located along the shore of Yau Tong Bay (which is also known as Kwun Tong Tsai Wan) in East Kowloon within the Kwun Tong District and the Project Site together with its adjacent land is zoned Comprehensive Development area (“CDA”) on the Approved Cha Kwo Ling, Yau Tong, Lei Yue Mun Outline Zoning Plan (OZP) No. S/K15/19. It faces Victoria Harbour to the southwest and is bounded by the Eastern Harbour Crossing Ventilation Building to the west, Cha Kwo Ling Road to the north and east, and Ko Fai Road to the south. The site is also adjacent to the former Yau Tong Industrial Area, which is at present mainly occupied by obsolete industrial buildings.
- 1.1.2. The Project is a designated project and is governed by the Environmental Permit No. EP-409/2010 (hereinafter referred to as “the EP”).
- 1.1.3. Major works to be undertaken in the Project include:-
- Demolition of past and existing shipyard and building structures;
  - Demolition of marine structure of shipyards; and
  - Decontamination of identified contaminated spots.
- 1.1.4. For the decommissioning of past and existing shipyard lots, there is a total of 39 Marine Lots along the shore of Yau Tong Bay are under the control of the Project Proponent (Main Wealth Development Limited) and covered in this Project. These 39 lots (or the ‘concerned lots’) ,with a total area of over 1 hectare (ha), as listed below and highlighted in **Figure 1**, are hereinafter referred to as the ‘Project Site’. The land uses for the Project Site had been industrial and various land uses including shipyards, timber yards, sawmills and concrete batching plant.
- YTML No. 1
  - YTMLs No. 5-14
  - YTML No. 15
  - YTMLs No. 19-24
  - YTMLs No. 27-38
  - YTMLs No. 41-46
  - YTML No. 54
- 1.1.5. Main Wealth Development Limited (the Project Proponent) has commissioned Stephen Cheng Consulting Engineers as the Engineer of the Project and Riseship Construction Company Limited was commissioned as the Demolition Contractor for building structures of the Project (hereafter referred to as “the Contractor”).
- 1.1.6. AECOM Asia Company Limited was appointed to undertake the Environmental Team (hereafter referred to as “ET”) services for implementation of all the Environmental Monitoring and Audit (hereafter referred to as “EM&A”) works under the Project. Mott MacDonald Hong Kong Limited and Nature & Technologies (HK) Limited act as the Independent Environmental Checker (hereafter referred to as “IEC”) and Independent Environmental Auditor (hereafter referred to as “IEA”) for the Project respectively.
- 1.1.7. The construction works of the Project was commenced on 21 November 2011 and anticipated to be substantially completed in 2013.
- 1.1.8. In accordance with the updated Environmental Monitoring and Audit Manual (hereinafter referred to as “the EM&A Manual”) of the Project, there is a need of an impact EM&A programme includes daytime construction noise and water quality monitoring, soil remediation works monitoring and auditing and site auditing. The impact EM&A Programme for the Project commenced on 21 November 2011.



## 1.2 Scope of Report

- 1.2.1 This is the third Quarterly EM&A Summary Report for the Project “Yau Tong Bay – Decommissioning of Shipyard Sites”. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in the period between 1 May 2012 and 31 July 2012.

## 1.3 Project Organization

- 1.3.1 The project organization structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

**Table 1.1 Contact Information of Key Personnel**

Party	Name	Telephone	Fax
<b>Project Proponent</b>  (Main Wealth Development Limited)	Colin Wan	2908 8574	2530 1402
<b>Engineer</b>  (Stephen Cheng Consulting Engineers)	Andy Kwok	2908 2516	2845 9964
<b>Demolition Contractor – Building Structures (Contractor)</b>  (Riseship Construction Company Limited)	Edward Lo	2578 9542	2578 1892
<b>Independent Environmental Checker (IEC)</b>  (Mott MacDonald Hong Kong Limited)	Terence Kong	2828 5919	2827 1823
<b>Independent Environmental Auditor (IEA)</b>  (Nature & Technologies (HK) Limited)	Gabriel Lam	2877 3122	2511 0922
<b>Environmental Team Leader (ETL)</b>  (AECOM Asia Company Limited)	Y T Tang	3922 9393	2371 7609

#### **1.4 Summary of Construction Works**

- 1.4.1 The construction phase of the Project under the EP commenced on 21 November 2011.
- 1.4.2 As informed by the Contractor, major construction activities carried out in the reporting period building demolition of YTML 1, YTML 5-14, YTML 42-46 (Phase 2), building demolition of YTML 27-41 (Phase 3) and general site clearance (Phase 2).
- 1.4.3 The general layout plan of the Project site is shown in **Figure 1**.
- 1.4.4 The latest Construction Programme is shown in **Appendix B** and the phasing of works area for demolition works is detailed in **Figure 2**.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in **Appendix C**.

## 2 SUMMARY OF EM&A PROGRAMME REQUIREMENTS

### 2.1 Monitoring Parameters and Locations

- 2.1.1 The EM&A Manual designated locations for the monitoring of environmental impacts in terms of construction noise, water quality and land contamination impact due to the Project.
- 2.1.2 Water quality monitoring will be conducted as demolition of marine structures has been commenced. Soil remediation works monitoring and auditing will be commenced as soil remediation works have been commenced.
- 2.1.3 The EM&A Manual also required environmental site inspections for air quality, noise, water quality, waste management, land contamination and landscape and visual.
- 2.1.4 The description of monitoring parameters, frequencies and durations and detailed locations of monitoring stations for impact noise are listed below. The monitoring stations for impact noise are depicted in **Figure 3**.

**Table 2.1 Locations of Impact Noise Monitoring Stations**

Monitoring Station	Location	Description
NM1	Yau Lai Estate Hong Lai House	1m from the exterior of the roof top façade of the building
NM2	S.K.H. Yau Tong Kei Hin Primary School	1m from the exterior of the roof top façade of the building
NM3	C.C.C. Kei Faat Primary School (Yau Tong)	1m from the exterior of the roof top façade of the building

**Table 2.2 Noise Monitoring Parameters, Frequency and Duration**

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. $L_{eq}$ , $L_{10}$ and $L_{90}$ would be recorded.	At least once per two weeks

### 2.2 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.2.1 The environmental quality performance limits, i.e. Action and Limit Levels for construction noise monitoring works were derived from the baseline monitoring results as detailed in the EM&A Manual. **Appendix D** shows the established Action and Limit Levels for noise monitoring.

### 2.3 Environmental Mitigation Measures

- 2.3.1 Relevant environmental mitigation measures as recommended in the Project EIA final report were stipulated in the EM&A Manual and environmental requirement in contract documents for the Contractor to adopt. A list of mitigation measures and their implementation statuses, i.e. Implementation Schedule of Environmental Mitigation Measures (EMIS), are given in **Appendix C**.

### 3 MONITORING RESULTS

#### 3.1 Noise Monitoring

- 3.1.1 Noise monitoring was conducted at 3 designated monitoring stations (NM1 to NM3), for at least once per two weeks during daytime 0700 – 1900 of reporting quarter. The graphical plots of trends of the monitoring results are provided in **Appendix E**.
- 3.1.2 Seven (7) daytime noise monitoring events were carried out at each of the designated monitoring stations (NM1 to NM3) respectively in the reporting quarter.
- 3.1.3 The weather was mostly sunny, with occasional rainy events in the reporting quarter. Major noise sources during the noise monitoring included construction activities of the Project, construction activities by other contracts and nearby traffic noise.
- 3.1.4 One Action Level exceedance of construction noise was recorded in the reporting quarter, since a noise complaint (referred from EPD) was received on 18 June 2012 and the noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.
- 3.1.5 No Limit Level exceedance was recorded at all monitoring stations in the reporting quarter.
- 3.1.6 **Table 3.1** presents the number of exceedances recorded in each month of the reporting quarter. The number of monitoring events included regular impact monitoring events and additional ones, if any.

**Table 3.1 Summary of Number of Exceedances for Construction Impact Noise Monitoring**

Monitoring Parameter	Level of Exceedance	Month								
		May 12			Jun 12			Jul 12		
		NM1	NM2	NM3	NM1	NM2	NM3	NM1	NM2	NM3
Daytime Construction Noise	No. of monitoring events	2	2	2	3	3	3	2	2	2
	Action	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0
	<i>Total no. of Action and Limit Level Exceedances</i>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Remarks: Exceedances which are not project-related are not presented in this table.

### **3.2 Water Quality Monitoring**

- 3.2.1 No water quality monitoring was not conducted in the reporting quarter as demolition of marine structures was not commenced. No Action/Limit Level exceedance of water quality was recorded in the reporting quarter.

### **3.3 Land Contamination Monitoring**

- 3.3.1 In the reporting quarter, excavation of inspection pits and borehole drilling for structural and environmental sampling were not observed in the site. No significant environmental issue was identified in the reporting quarter.
- 3.3.2 No soil remediation works monitoring and auditing was commenced in the reporting quarter as soil remediation works had not yet commenced.

### **3.4 Environmental Site Inspection**

- 3.4.1 There were thirteen (13) site inspections conducted in the reporting quarter to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. The major concerns for the Project are air quality, noise, water quality and chemical and waste management. Observations recorded are described below.

- 3.4.2 The Contractor has partially rectified observations as identified during environmental site inspection in the reporting quarter within agreed time frame. Rectifications of remaining identified items are undergoing by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly

#### **3.4.3 Air Quality Impact**

- Mud trails were observed outside the site entrance/exit at Phase 2 (facing to Ko Fai Road). The Contractor was reminded to provide proper wheel washing facilities at every vehicle exit point of the site and combine with cleaning of public roads. The Contractor should remind the vehicle's drivers to remove any dusty materials from their vehicle's bodies and wheels before leaving construction sites.
- Site haul roads at Phase 3 (near Cha Kwo Ling Road) were observed in dry condition. The Contractor was reminded to dampen the site haul roads more frequently to prevent any fugitive dust generation occurred.

#### **3.4.4 Construction Noise Impact**

- No noise barrier provided for breaking activity at Phase 2 (near Ko Fai Road) was observed. The Contractor was reminded to provide proper movable noise barrier for all breaking activities.
- The Contractor was reminded to provide valid noise emission label for air compressor placed in work area at Phase 2 (facing to Ko Fai Road).
- The Contractor was reminded to provide proper noise mitigation measure (such as noise barrier) for demolition work of the Phase 3 site work area to reduce noise impact to sensitive receivers effectively.
- The Contractor was reminded that the types and numbers of Powered Mechanical Equipments (PMEs) operated on site (especially in Phase 3 site work area) for demolition works during the weekday normal working hours should strictly comply with the Construction Noise Mitigation Plan (CNMP).

#### **3.4.5 Water Quality Impact**

- Improvement of temporary drainage systems in works area was still outstanding. Proper bundings should be provided along the site boundaries (especially the sides facing Yau Tong Bay), in together with proper treatment and pumping facilities, to handle the surface run-off from works area, especially

during rainy seasons. The Contractor was reminded that any untreated surface run-off should be avoided from overflowing outside the Project site areas.

- Excavated materials and silt were accumulated near the site entrance at Phase 2 (facing to Ko Fai Road). The Contractor was reminded to cover the excavated materials and silt by tarpaulin sheets to prevent any silty water surface runoff to public drain due to rain.
- Silt was accumulated outside the site entrances / exits at Phase 2 (facing to Ko Fai Road). The Contractor was reminded to remove the silt as soon as possible and combined with cleaning of public roads. Proper bundings should be provided in site entrances / exits to prevent any surface / construction runoff flowing from work areas to public drain, in together with proper treatment and pumping facilities to handle the surface run-off from works area in rainy seasons. The Contractor was reminded that any untreated surface run-off should be avoided from overflowing outside the Project site areas. The Contractor was also recommended to maintain the drainage system properly and regularly.
- Oil stains were observed on ground. Oil stains on ground should be cleared and dispose of as chemical waste. Any kinds of maintenance works should be carried out in paved and roofed works area with proper mitigation measures to handle any oil leakage.
- Oil drum was observed placed on ground without drip tray. The Contractor was reminded to provide drip tray for all oil drums to prevent oil leakage.

#### 3.4.6 Chemical and Waste Management

- Panel/label displayed at Chemical Waste Storage Area (CWSA) was observed discoloured. The Contractor was reminded to provide a proper panel/label with red English words and Chinese characters “CHEMICAL WASTE” “化學廢物” not less than 60mm high on a white background, which is durable, weather resistance and rigid for CWSA.
- The Contractor was reminded to sort the general refuse on site properly.
- The Contractor was reminded to provide sufficient receptacles in Phase 3 work area (near Cha Kwo Ling Road) for general refuse collection.

#### 3.4.7 Landscape and Visual Impact

- No adverse observation was identified in the reporting period.

#### 3.4.8 Miscellaneous

- The Contractor has partially rectified observations as identified during environmental site inspection in the reporting quarter within agreed time frame. Rectifications of remaining identified items are undergoing by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly.

## 4 ADVICE ON SOLID AND LIQUID WASTE MANAGEMENT STATUS

### 4.1 Solid and Liquid Waste Management Status and Recommendations

- 4.1.1 The Contractor was registered as a chemical waste producer for this Project. C & D material and waste sorting was carried out on site. Receptacles were available for general refuse and C&D wastes collection.
- 4.1.2 As advised by the Contractor, quantity of waste for disposal in the reporting quarter is summarized in the Table 4.1

**Table 4.1 Summary of Quantity of Waste for Disposal**

Type of waste	Month			Total
	May 12	Jun 12	Jul 12	
<b>C&amp;D materials generated</b>				
C&D waste generated	1,635.06 tonnes	4,007.71 tonnes	1,698.56 tonnes	<b>7,341.33 tonnes</b>
Metals	169.55 tonnes	48.65 tonnes	63 tonnes	<b>281.2 tonnes</b>
Paper cardboard packing	0 kg	0 kg	0 kg	<b>0 kg</b>
Plastics	0 kg	0 kg	0 kg	<b>0 kg</b>
Chemical waste	0 L	0 L	0 L	<b>0 L</b>
General refuse	0 tonnes	0.03274 tonnes	142.23 tonnes	<b>142.26274 tonnes</b>

- 4.1.3 The Contractor is advised to properly maintain on site C&D material and waste sorting, collection and recording system and maximize reuse / recycle of C&D material and waste. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.

## 5 SUMMARY OF NON-COMPLIANCE (EXCEEDANCES) OF ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

### 5.1 Summary of Exceedances of the Environmental Quality Performance Limit

- 5.1.1 One Action Level exceedance of construction noise was recorded in the reporting quarter, since a noise complaint (referred from EPD) was received on 18 June 2012 and the noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.
- 5.1.2 No Limit Level exceedance of construction noise was recorded in the reporting quarter.
- 5.1.3 Water quality monitoring was not conducted in the reporting quarter as demolition of marine structures was not yet commenced. No Action/Limit Level exceedance of water quality was recorded in the reporting quarter.

## 6 COMPLAINT, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION

### 6.1 Summary of Complaints, Notification of Summons and Successful Prosecutions

6.1.1 One environmental (noise) complaint referred from EPD was received in the reporting quarter

6.1.2 A noise complaint was received by and referred from EPD on 18 June 2012. The complaint was about the noise from the operation of Powered Mechanical Equipment (PME) from 8:00 to 19:00 from a construction site near Yau Lai Estate during weekdays and general holidays. As informed by the Demolition Contractor for building structures (Riseship Construction Co. Ltd.) of the Project, demolition works were conducted in weekdays (Monday to Saturday) during the normal daytime working hours (from 8:30 to 18:30) at project site near Ko Fai Road and no construction activities were conducted during general holidays. As reported by the Contractor, excavators were observed operated in Sand Deposits near Cha Kwo Ling Road and Ko Fai Road. Road paving bitumen works (for traffic roads at Ko Fai Road) were also observed outside the site entrance (Phase 1) in Ko Fai Road. Since site inspection in December 2011, the 3m high hoarding had been installed along the site boundary of Ko Fai road and Cha Kwo Ling road for different phases of work sites. In addition, the noise monitoring result at the nearest monitoring station (Yau Lai Estate Hong Lai House) on 6 June 2012 and 12 June 2012 were 65.1 dB(A) and 67.4 dB(A) respectively, which were below the limit level of 75 dB(A), while excavators were observed operating at Phase 2 (near Ko Fai Road) site works area during the course of monitoring. Nevertheless, the noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related. The Contractor is reminded that the types and numbers of Powered Mechanical Equipments (PMEs) operated on site for demolition works during the weekday normal working hours should strictly comply with the Environmental Permit (EP) and Construction Noise Mitigation Plan (CNMP). The Contractor should properly fulfil the requirements of EP and CNMP. The Contractor is recommended to provide proper noise mitigation measures (even if is not required in CNMP) for demolition work of the project site. Moreover, the Contractor is reminded that Construction Noise Permit (CNP) should be applied if general construction works using PME / Prescribed Construction Work (PCW) are required to be carried out during the restricted hours.

6.1.3 No notification of summons and prosecution was received in the reporting quarter.

6.1.4 Table 6.1 summarized the complaint, summons and successful prosecution received in the reporting period.

**Table 6.1 Summary of Environmental Complaints, Summons and Successful Prosecutions**

	May 12	Jun 12	Jul 12	Total
Complaint Logged	0	1	0	1
Summons Served	0	0	0	0
Successful Prosecution	0	0	0	0

6.1.5 Statistics on complaints, notifications of summons and successful prosecutions recorded in the reporting quarter and since the commencement of the Project are given in **Appendix F**.

## 7 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

### 7.1 Comments on Mitigation Measures

7.1.1 According to the environmental site inspections performed in the reporting quarter, the following comments are provided:

#### 7.1.2 Air Quality Impact

- The Contractor was reminded to dampen the site haul roads more frequently to prevent any fugitive dust generation occurred.



- The Contractor was reminded to provide proper wheel washing facilities at every vehicle exit point of the site and combine with cleaning of public roads. The Contractor should remind the vehicle's drivers to remove any dusty materials from their vehicle's bodies and wheels before leaving construction sites..

#### 7.1.3 Construction Noise Impact

- The Contractor was reminded to provide proper noise mitigation measure (such as noise barrier) for demolition work of the Phase 3 site work area to reduce noise impact to sensitive receivers effectively.
- The Contractor was reminded that the types and numbers of Powered Mechanical Equipments (PMEs) operated on site (especially in Phase 3 site work area) for demolition works during the weekday normal working hours should strictly comply with the Construction Noise Mitigation Plan (CNMP).
- The Contractor was reminded to provide valid noise emission label for air compressor placed in work area at Phase 2 (facing to Ko Fai Road).
- The Contractor was reminded to provide proper movable noise barrier for all breaking activities.

#### 7.1.4 Water Quality Impact

- Proper bundings should be provided along the site boundaries (especially the sides facing Yau Tong Bay) and in site entrances / exits to prevent any surface / construction runoff flowing from work areas to public drain, in together with proper treatment and pumping facilities, to handle the surface run-off from works area, especially during rainy seasons. The Contractor was reminded that any untreated surface run-off should be avoided from overflowing outside the Project site areas.
- The Contractor was reminded to remove the silt as soon as possible and combined with cleaning of public roads. The Contractor was also recommended to maintain the drainage system properly and regularly.
- The Contractor was reminded to cover the excavated materials and silt by tarpaulin sheets to prevent any silty water surface runoff to public drain due to rain.
- Oil stains on ground should be cleared and dispose of as chemical waste. Any kinds of maintenance works should be carried out in paved and roofed works area with proper mitigation measures to handle any oil leakage.
- The Contractor was reminded to provide drip tray for all oil drums to prevent oil leakage.

#### 7.1.5 Chemical and Waste Management

- The Contractor was reminded to provide sufficient receptacles in Phase 3 work area (near Cha Kwo Ling Road) for general refuse collection.
- The Contractor was reminded to provide a proper panel/label with red English words and Chinese characters "CHEMICAL WASTE" "化學廢物" not less than 60mm high on a white background, which is durable, weather resistance and rigid for CWSA.
- The Contractor was reminded to sort the general refuse on site properly.

#### 7.1.6 Landscape and Visual Impact

- Nil.

#### 7.1.7 Miscellaneous

- Nil.

### **7.2 Recommendations on EM&A Programme**

7.2.1 The impact noise and water quality monitoring programme ensured that any environmental impact to the receivers would be readily detected and timely actions could be taken to rectify any non-compliance. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly site inspection and soil remediation monitoring and auditing ensured that all the environmental mitigation measures recommended in the EIA report were effectively implemented.

7.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendation was advised for the improvement of the programme.

### **7.3 Conclusions**

7.3.1 The construction phase and EM&A programme of the project commenced on 21 November 2011.

7.3.2 Noise monitoring and weekly site inspection were carried out from May 2012 to July 2012, in accordance with the EM&A Manual.

7.3.3 One Action Level exceedance of construction noise was recorded in the reporting quarter, since a noise complaint (referred from EPD) was received on 18 June 2012 and the noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.

7.3.4 No Limit Level exceedance of construction noise was recorded in the reporting quarter.

7.3.5 Water quality monitoring was not conducted in the reporting quarter as demolition of marine structures was not yet commenced. No Action/Limit Level exceedance of water quality was recorded in the reporting quarter.

7.3.6 No significant environmental issue was identified from the drilling works. No soil remediation works monitoring and auditing was commenced in the reporting quarter as soil remediation works was yet commenced.

7.3.7 Environmental site inspection was carried out 13 times in the reporting quarter. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

7.3.8 One environmental (noise) complaint referred from EPD was received in the reporting period.

7.3.9 A noise complaint (referred from EPD) was received on 18 June 2012. The complaint was about the noise from the operation of Powered Mechanical Equipment (PME) from 8:00 to 19:00 from a construction site near Yau Lai Estate during weekdays and general holidays. The noise source was likely contributed from the demolition work of the project at Ko Fai Road during the weekdays. The complaint was considered as project-related.

7.3.10 No notification of summons and prosecution was received in the reporting quarter.