Issue No.:1Issue Date:September 2012Project No.:944

CONSTRUCTION OF A SECONDARY BOUNDARY FENCE AND NEW SECTION OF PRIMARY BOUNDARY FENCE AND BOUNDARY PATROL ROAD (SECTION 2 LOK MA CHAU CONTROL POINT TO NG TUNG RIVER)

ENVIRONMENTAL MONITORING & AUDIT REPORT (AUGUST 2012)

Prepared By:

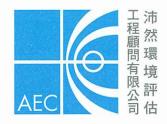
ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE

Allied Environmental Consultants Limited

Acousticians & Environmental Engineers

19/F., Kwan Chart Tower, 6 Tonnochy Road, Wan Chai, Hong Kong Tel: (852) 2815 7028 Fax: (852) 2815 5399 Email: info@aechk.com



ENVIRON

Ref.: ASDBFBPREM00_0_0414L.12

11 September 2012

Mott MacDonald Hong Kong Limited 20/F Two Landmark East, 100 How Ming Street, Kwun Tong, Hong Kong

By Fax (2827 1823) and Post

Attention: Mr. James Kam / Mr. F. Y. Wong

Dear Sirs,

Re: Environmental Permit No. EP-347/2009/A and FEP-02/347/2009/A Contract No. SSW306 - Section 2 Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River Monthly EM&A Report for August 2012

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report for August 2012 (Issue No. 1) by E-mail on 10 September 2012.

We are pleased to inform you that we have no further comments on the captioned report. We write to verify that the captioned submission in accordance with Condition 4.5 of EP-347/2009/A and FEP-02/347/2009/A.

Thank you for your attention and please feel free to contact the undersigned should you have any queries.

Yours faithfully,

David Yeung Independent Environmental Checker

c.c.	ArchSD	Attn: Mr. W. K. Yiu (CPM203) / Mr. Laurence Kwan (SPM225)	Fax: 2810 5372
	MMHK(site)	Attn: Mr. Peter Tsang	Fax: 2683 1195
	AEC (ETL)	Attn: Ms. Grace Kwok	Fax: 2815 5399
	Able	Attn: Mr. Gavin Lee	Fax: 2796 0519

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ENVIRONMENTAL MONITORING & AUDIT REPORT (AUGUST 2012)

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Grace M. H. Kwok Environmental Team Leader

Certified by:

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ENVIRONMENTAL MONITORING & AUDIT REPORT (AUGUST 2012)

Prepared By:

ALLIED ENVIRONMENTAL CONSULTANTS LTD.

COMMERCIAL-IN-CONFIDENCE

BSc(Hons) AMHKIOA AMHKIEIA

Author:

Checked:

Frank S. M. Cheung BEng(Hons) MSc

Approved:

Grace M. H. Kwok BEng(Hons) MHKIEL MHKIOA MISWA MKALA MKAPA LEED AP

This report has been prepared by Allied Environmental Consultants Limited with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

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

Nic H. H. Lam

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

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EXECUTIVE SUMMARY

Architectural Services Department (ArchSD) has awarded the contract for the Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road - Section 2 Lok Ma Chau Control Point to Ng Tung River. (hereafter referred to as the "Project") to Able Engineering Co. Ltd. ("the Contractor"). The contractor has appointed Allied Environmental Consultants Limited (AEC) as the Environmental Team (ET) to undertake Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual, the Environmental Permit (EP-347/2009/A) and Further Environmental Permit (FEP-02/347/2009/A) for the Project. The site preparation works and EM&A programme commenced on 25th March 2010 and the construction works were commenced on 12th April 2010. This report is the thirty monthly EM&A report, which details the EM&A results recorded during the period from 1st August 2012 to 31st August 2012.

According to the EM&A Manual, there are total 10 designated noise monitoring locations for the entire Construction of a Secondary Boundary Fence and New Sections of Primary Boundary Fence and Boundary Patrol Road project, where only MTL01 is within 300m from the construction area for Section 2 (Lok Ma Chau Control Point to Ng Tung River), thus only MTL01 is covered in this EM&A report for Section 2. Impact noise monitoring for the Project was carried out on 9th, 15th, 21st and 30th August 2012. Noise monitoring was conducted within the period of 0700-1900, non-restricted hours.

Noise monitoring results at the monitoring location MTL01, based on the monitoring results, the noise levels comply with the environmental requirements in EM&A Manual. There was no exceedance of the action and limit levels during the reporting month.

Four environmental site inspections were conducted by the Contractor and the ET on 10^{th} , 16^{th} , 24^{th} and 30^{th} August 2012. Major findings and deficiency were summarized at *Table 8* of this report. No non-compliance was observed in the reporting month.

There were no environmental complaints received in the reporting month.

No notification of summons or prosecution was received in the reporting month.

A total of $7m^3$ of general refuse was disposed to NENT Landfill. A total of $130m^3$ of C&D waste was disposed in this reporting period.

Construction activities to be undertaken from 1st September to 30th September 2012 will include fixing and painting of PBF / SBF post, U/G ducting work, backfilling / compaction to proposed Boundary patrol road, XPM Mesh fixing to PBF / SBF fence, tree planting, painting to PBF / SBF flat bar and concreting to Boundary patrol road. Potential environmental impacts include dust emission relating to the dry weather; noise from loading, unloading and handling of materials and storage of various C&D and chemical wastes. The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from

Project No. : 944

Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) Environmental Monitoring & Audit Report (August 2012)

the construction works. The Contractor was reminded to maintain good housekeeping at the site.

1. PROJECT BACKGROUND

The Frontier Closed Area (FCA) is an integral part of the package of measures for maintaining the integrity of the Hong Kong SAR's boundary with the Mainland and for combating illegal immigration and other cross-boundary criminal activities. Following a recent review, the Government has concluded that with the erection of a secondary boundary fence (SBF) along the boundary patrol road (BPR) and construction of new sections of the BPR and primary boundary fence (PBF) at certain sections along the boundary, the FCA coverage can be substantially reduced without affecting the objective of maintaining the integrity of the boundary. The PBF and SBF will be erected along the northern and southern curbs of the realigned BPR respectively to facilitate the Police in combating cross-boundary criminal activities. The reduced FCA will comprise a narrow strip of land covering the realigned BPR and areas to its north, together with the points of crossing the boundary (i.e. the Boundary Control Points and Sha Tau Kok town). Areas south of the SBF will generally be excised from the FCA. The site location plan is shown in *Figure 1*.

The proposed Secondary Boundary Fence is categorized as a Designated Project (DP) under the Environmental Impact Assessment Ordinance (EIAO) and therefore a detailed Environmental Impact Assessment (EIA- 161/2008) was conducted in year 2009.

An Environmental Permit (EP-347/2009) and a Variation of Environmental Permit (EP-347/2009/A) for the construction of whole project was issued by Environmental Protection Department in June 2009 and June 2010 respectively. A Further Environmental Permit (FEP-02/347/2009) and a Variation of Further Environmental Permit (FEP-02/347/2009/A) for the construction of the subject project was issued in February 2010 and July 2010 respectively.

Architectural Services Department (ArchSD) as the works agent has awarded the construction contract of the Project to Able Engineering Co. Ltd. ("the Contractor"). The Contractor has appointed Allied Environmental Consultants Limited (AEC) as the Environmental Team (ET) to undertake Environmental Monitoring and Audit (EM&A) programme in accordance with the EM&A Manual under the approved EIA report, which details the EM&A requirements for the construction of the Project, the EP-347/2009/A and FEP-02/347/2009/A.

The Construction Programme of the Project is shown in *Appendix A*. The site preparation works and EM&A programme commenced on 25^{th} March 2010 and the construction works commenced on 12^{th} April 2010. This report is the thirty monthly EM&A report, which details the EM&A results recorded during the period from 1^{st} August 2012 to 31^{st} August 2012.

4

1.1 Project Organization and Contact Personnel

Role	Department / Company	Names	Contact Number	Fax Number
Engineer Representative	Mott McDonald Hong Kong Limited	Mr. FY Wong	2828 5740	2827 1823
		Mr. Peter Tsang	2828 5921	2827 1823
Main Contractor	Able Engineering Co., Limited	Mr. Gavin Lee	9282 8158	2676 7966
Environmental Team Leader	Allied Environmental Consultants Limited	Ms. Grace Kwok	2815 7028	2815 5399
Independent Environmental Checker	ENVIRON Hong Kong Limited	Mr. David Yeung	3743 0788	3548 6988

Key personnel and contact particulars are summarized in Table 1.

Table 1 Contact Details of Key Personnel

The organizational structure and lines of communication during the construction work with respect to environmental management is given in *Appendix B*.

2. CONSTRUCTION WORKS & PROGRAMME

Construction activities undertaken during 1st August 2012 to 31st August 2012 including the following works items:

- Fixing and painting of PBF / SBF post;
- U/G ducting work;
- Backfilling / compaction to proposed Boundary patrol road;
- XPM Mesh fixing to PBF / SBF fence;
- Tree planting;
- Painting to PBF / SBF post and flat bar

The interrelationship between construction activities and environmental mitigation measures in the reporting month are shown in *Table 2*.

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Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) Environmental Monitoring & Audit Report (August 2012)

Construction Works	Major Environmental Impact	Mitigation Measures
Fixing of PBF / SBF	Waste management.	Quantities and record of waste
post		transferred to licensed collector
		should be well- maintained.
U/G ducting work	Waste management.	Quantities and record of waste
		transferred to licensed collector
		should be well- maintained.
Backfilling /	Wastewater, air quality, noise	Proper treatment should be made
compaction to	quality impacts and waste	prior to discharge of wastewater.
proposed Boundary	management.	Water spraying provided when
patrol road		necessary. Well-maintained or quiet
		plants were used. Quantities and
		record of waste transfer should be
		well-maintained.
XPM Mesh fixing to	Waste management.	Quantities and record of waste
PBF / SBF fence		transferred to licensed collector
		should be well- maintained.
Tree planting	Air quality	Water spraying provided when
		necessary
Painting to PBF / SBF	Air quality	Water spraying provided when
post and flat bar		necessary

Table 2 Interrelationship between Construction Activities and Mitigation Measures

3. SUMMARY OF EM&A REQUIREMENT

Weekly site inspection is required for air quality, noise quality, water quality, waste management, ecology, cultural heritage and landscape and visual. The inspection is to ensure mitigation measures recommended in EIA and EM&A manual implemented during construction phase. Mitigation measures implementation schedule and their status are given in *Appendix F*

For regular impact noise monitoring, the sampling frequency of at least once a week for a $L_{eq(30mins)}$. The Action and Limit Levels for Impact noise are summarized in *Table 3*.

Time Period	Action Level	Limit Level
Daytime (0700-1900) except general holidays and Sunday	When one documented complaint is received.	75 dB(A)
Measurements in Leq (30min)	-	

 Table 3
 Action and Limit Level for Noise Impact Monitoring

Should non-compliance of the above Action and Limit levels occurs, actions in accordance with the Event and Action Plan in *Table 4*.

Project No. : 944

Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) Environmental Monitoring & Audit Report (August 2012)

Event	Action						
	ET Leader	IEC	ER	Contractor			
	 Notify IEC and the Contractor. Carry out investigation. Report the results of investigation to IEC and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation measures. 	 Review with analyzed results submitted by ET Review the proposed remedial measures by the Contractor and advise ER accordingly. Supervise the implement of remedial measures. 	 Confirm receipt of notification of exceedance in writing, Notify the Contractor. Require the Contractor to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC. Implement noise mitigation proposals. 			
Limit Level	 Identify the source. Notify IEC, ER, EPD and the Contractor. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform IEC, ER and EPD to causes & actions taken for the exceedances. Assess effectiveness of the Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise ER accordingly. Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analyzed noise problem. Ensure remedial measures are properly implemented. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abate. 	 Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IEC within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedance is abated. 			

Table 4 Event and Action Plan

4. NOISE MONITORING METHODOLOGY

4.1 Noise Monitoring Procedure

Noise monitoring was conducted at the designated noise monitoring location between 0700-1900 hours using a sound level meter which complies with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). Noise instrumentation details are given in *Table 5*.

Manufacturer	Type/Model No.	Equipment
RION	Model NL 31 Precision Sound Level Ana	
		with windshield
RION	Model NC 73	Calibrator

Table 5 Noise Monitoring Equipment

Noise levels measurements were recorded in terms of thirty minutes A-weighted equivalent continuous sound pressure level (Leq($_{30mins}$)) on a weekly basis. The sound level meter was calibrated immediately prior to and following each noise measurement. The meter was mounted on a tripod at a height of 1.2m and the microphone was positioned at 1m away the building façade of the noise monitoring station facing the construction site. The sound level meters, including the calibrators, are verified by the manufacturer every one year to ensure they perform to the same level of accuracy as stated in the manufacturer's specifications. The calibration certificates for the sound level meter and calibrator are given in *Appendix C*.

Noise measurements were not made in the presence of fog, rain, and wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed was checked with a portable anemometer capable of measuring the wind speed in m/s.

4.2 Noise Monitoring Programme

Noise monitoring was conducted at designated noise monitoring locations during construction phase: a village house at Village House at Ma Tso Lung (MTL01) as shown in *Figure 2* on 9th, 15^{th} , 21^{th} and 30^{th} August 2012. Details of the noise monitoring stations are shown in *Table 6*. *Appendix D* shows detailed schedule of the monitoring programme in the reporting month and upcoming month.

ID	Monitoring Location	Description of Monitoring Location			
MTL01	Village House at Ma Tso Lung	G/F boundary wall of Village House at Ma Tso Lung			
Table (Descriptions of Noise Maritening Logitions					

Table 6 Descriptions of Noise Monitoring Locations

5. RESULTS

Noise monitoring results and weather conditions during the monitoring period is summarized in *Table* 7. Detailed results and graphical plots of noise monitoring are given in *Appendix E*. There were no exceedances of the action and limit levels during the reporting month.

Location	Date	Weather Condition	Wind Speed (m/s)	Time	L _{eq} (30mins)	L ₁₀ (30mins)	L90 (30mins)	Remarks
	9 August 12	Sunny	0.5	16:07 – 16:37	48.5	49.5	40.6	Noise from birdcall and traffic noise
MTL 01	15 August 12	Sunny	0.3	16:00 – 16:30	48.2	50.8	40.7	Noise from birdcall and traffic noise
MTL-01	21 August 12	Sunny	0.3	14:10 – 14:40	52.1	53.8	38.1	Noise from birdcall and traffic noise
	30 August 12	Sunny	0.3	16:00 – 16:30	45.3	47.4	39.8	Noise from birdcall

Table 7 Noise Monitoring Results

6. SITE INSPECTION & AUDIT

A total of four site inspections were conducted by the Environmental Team (ET) in this reporting month. Observations by the ET, actions by the Contractor and outcome are summarized in the *Table 8*.

Date	Observations	Action taken by	Outcome
		Contractor	
10 August 12	Unpaved area presented dry.	The contractor was reminded to water more frequently.	The situation was rectified as observed on 16 August 2012. (Closed)
16 August 12	No major environmental deficiency	-	-
24 August 12	No major environmental deficiency.	-	-
30 August 12	The surface U-channels near the work area were not covered to block the entrance of large debris. The unpaved area and	The contractor was requested to remove the large debris from the U- channels and provide adequate covers. The contractor was	The debris was removed and covers were provided as photo record on 31 August 2012. (Closed) The unpaved area and
	working area appeared dry.	requested to provide sufficient watering for the identified area and for major dust generating activities.	working area were sprayed as photo record on 31 August 2012. (Closed)
	The inert/ non-inert materials were not segregated and they were accumulated at the waste storage area.	The contractor was requested to store the inert/ non-inert materials separately and to remove the accumulated waste.	The inert/ non-inert materials were segregated and cleared as photo record on 31 August 2012. (Closed)

Table 8 Summary of Site Inspections

During site inspections in the reporting month, no non-conformance of implementation of environmental mitigation measures was identified. All environmental mitigation measures for construction stages as stated in approved EIA Report, EM&A Manual and EP-347/2009/A were carried out properly in the reporting month. The mitigation measures implementation schedule is shown in *Appendix F*.

7. NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

In this reporting period, no complaint, notification of summons or prosecution was received. No non-compliance for general works and no non-compliance against EP condition were recorded. The complaint log is appended in *Appendix G*.

8. WASTE MANAGEMENT

There are $130m^3$ inert C&D waste was disposed to Tuen Mun Area 38 Fill Bank, $0m^3$ of metal wastes, $0m^3$ of paper and cardboard packing and $7m^3$ of general refuse were disposed to North East New Territories Landfill. There are a total of $0m^3$ of chemical waste was transported off site to Chemical Waste Treatment Centre at Tsing Yi in this reporting period. The monthly Waste Flow Table is given in *Appendix H*.

Good site practice shall be maintained and specific procedures in dealing with different kind of wastes shall be followed during construction. The Contractor shall maintain and record all triptickets as stipulated in the Waste Management Plan (WMP) and project EM&A Manual and make a thorough reference from the relevant Legislations and guidelines by the EPD.

9. STATUS OF LICENSE AND PERMIT

A summary of relevant permits, licences, and notifications on environmental protection for the Project is given in *Appendix I*.

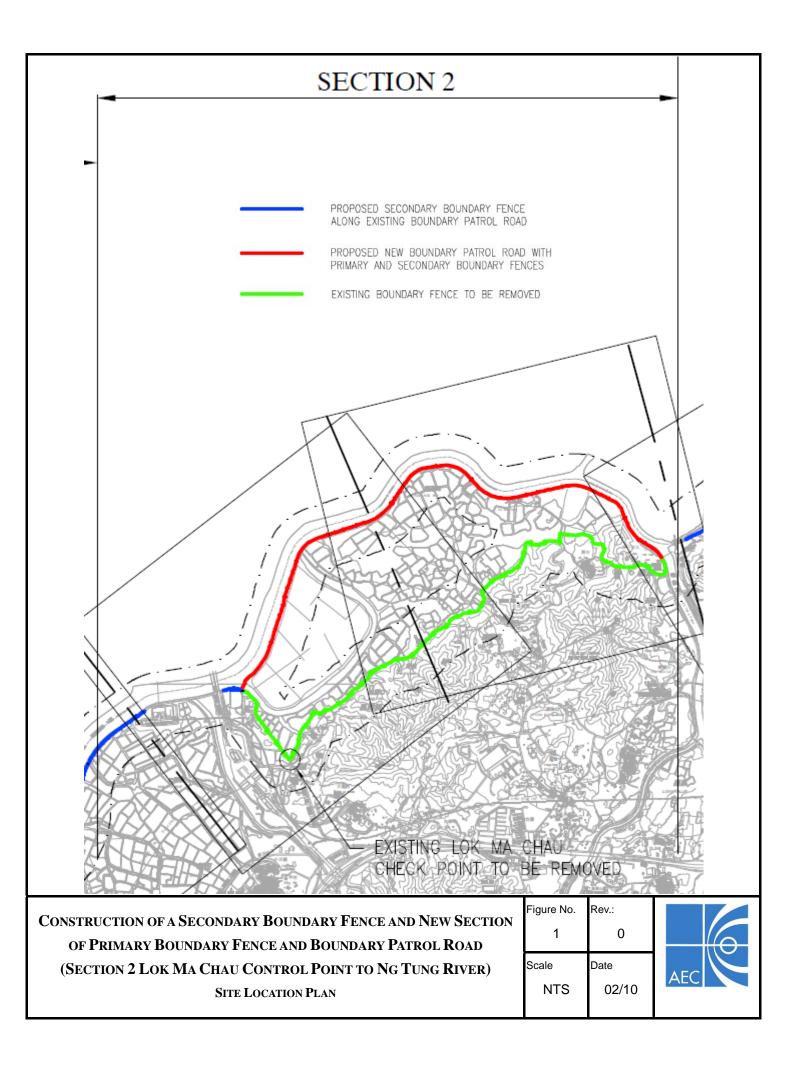
10. CONCLUSIONS AND FUTURE KEY ISSUES

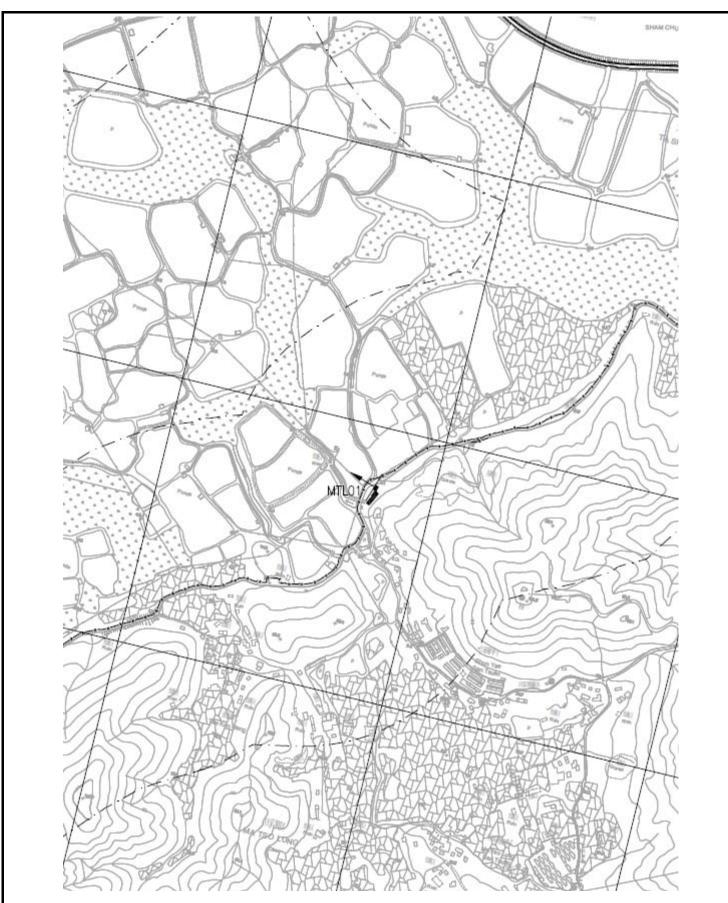
Environmental monitoring was carried out for the Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River) in the reporting month. Noise monitoring was conducted at a village house at Ma Tso Lung (MTL01) during the period from 1st August 2012 to 31st August 2012.

Noise monitoring was conducted at the monitoring location MTL01. All monitoring results complied with the relevant action and limit levels.

A total of $7m^3$ of general refuse was disposed to NENT Landfill. A total of $130m^3$ of C&D waste was disposed in this reporting period.

Construction activities to be undertaken from 1st September to 30th September 2012 will include fixing and painting of PBF / SBF post, U/G ducting work, backfilling / compaction to proposed Boundary patrol road, XPM Mesh fixing to PBF / SBF fence, tree planting, painting to PBF / SBF flat bar and concreting to Boundary patrol road. Potential environmental impacts include dust emission relating to the dry weather; noise from loading, unloading and handling of materials and storage of various C&D and chemical wastes. The Contractor should properly implement environmental mitigation measures as per the implementation schedule in the EM&A manual to ensure no adverse environmental impacts to be arisen from the construction works. The Contractor was reminded to maintain good housekeeping at the site.





CONSTRUCTION OF A SECONDARY BOUNDARY FENCE AND NEW SECTION OF PRIMARY BOUNDARY FENCE AND BOUNDARY PATROL ROAD (SECTION 2 LOK MA CHAU CONTROL POINT TO NG TUNG RIVER) LOCATION OF NOISE MONITORING STATION





Appendix AProject Construction Programme



ABLE ENGINEERING COMPANY LIMITED 安保工程有限公司 A member of Vantage International (Holdings) Limited 盈信控版有限公司附属機構

Our Ref.: 23909/01/S0867

21st November, 2011

By Hand

Mott MacDonald Hong Kong Limited 20/F., Two Landmark East 100 How Ming Street Kwun Tong, Kowloon Hong Kong

Attn: Mr. James Kam

Dear Sirs,

Re: ASD Contract No. SS W306 Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road from Lok Ma Chau Control Point to Ng Tung River <u>Submission of Master Program Revision 4</u>

With reference to your letter SHC/JK/FYW/LW/DC/C216727/306/12/L-0162 dated 22/08/11 regarding granted EOT 6 of the captioned project, we would like to submit herewith our Master program revision 4 as per attached for your earlier comment and approval.

Thank you for your kind attention.

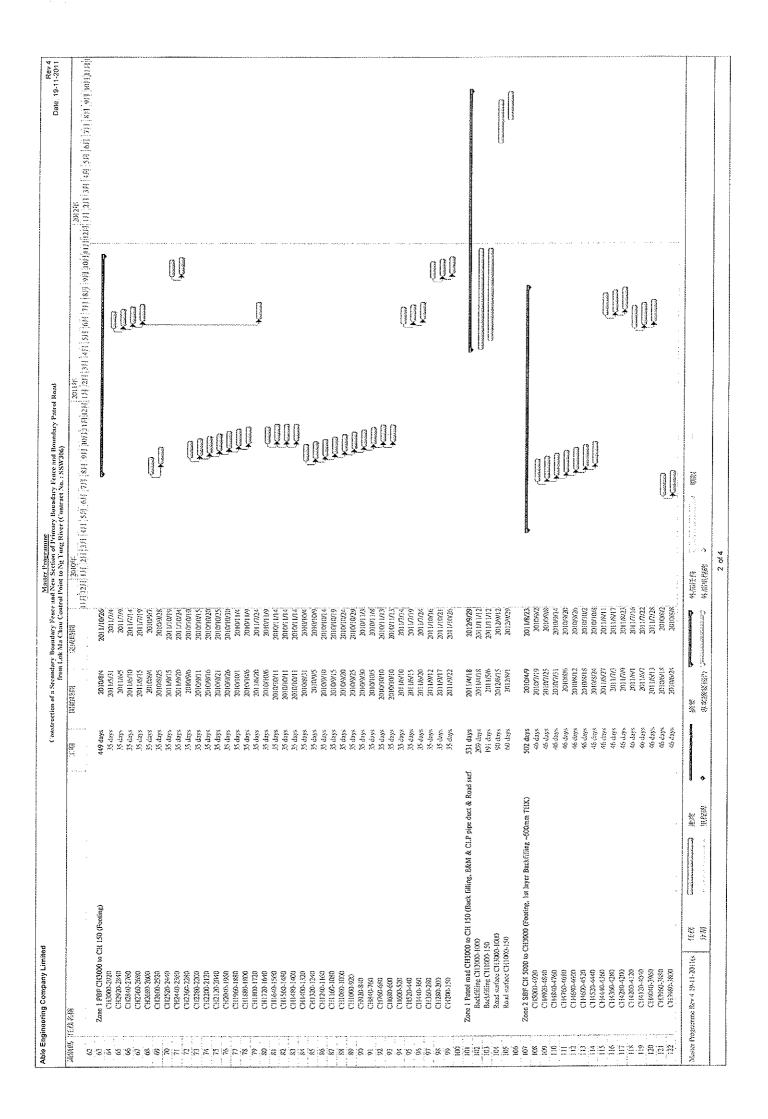
Yours faithfully For and on behalf of ABLE ENGINEERING CO., LTD.

Gavin Lee

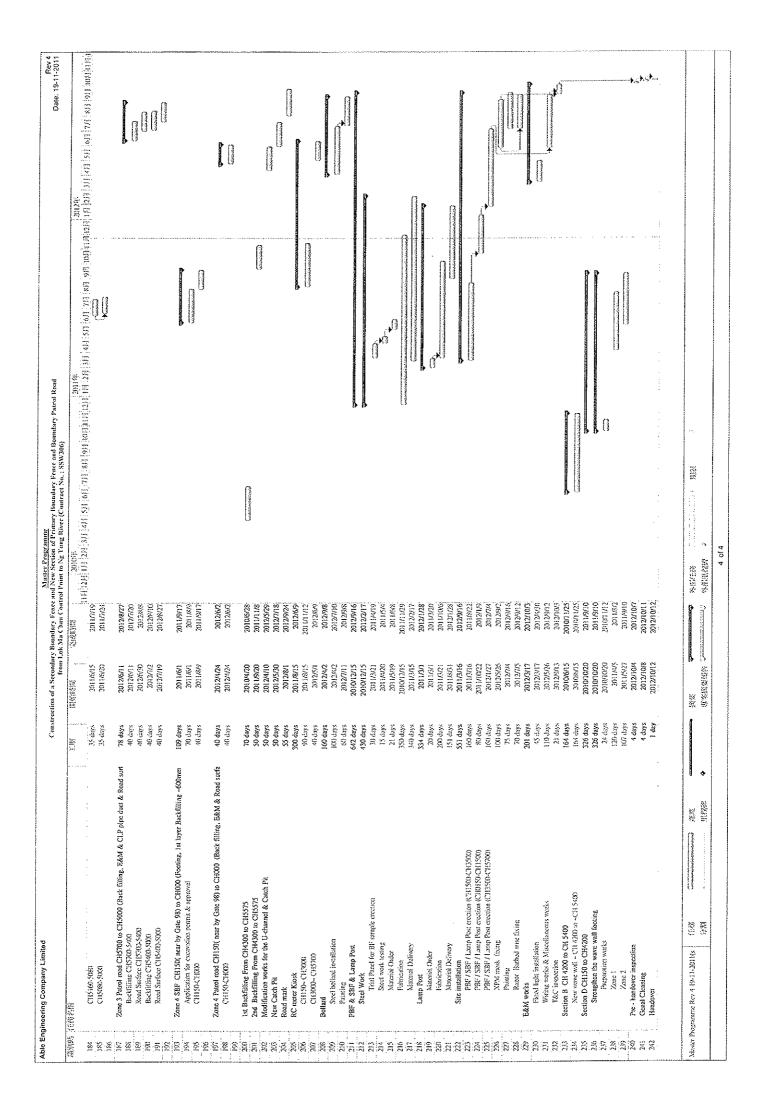
Site Agent () GL/KMT/kmt Encl.

c.c.	CPM203, ArchSD (Attn: Mr. C. L. Wong / Mr. Sammy Yue)	w/e
	ER/COW- SCOW/KE, ArchSD (Attn: Mr. Y. Y. Chan)	w/e
	RE / PCOW Mottmac (Attn: Mr. Peter Tsang / Mr. Paul Chong)	w/e
	PBSI Mottmac (Att.: Mr. C. K. Hui)	w/e
	Site office / SQS	w/e

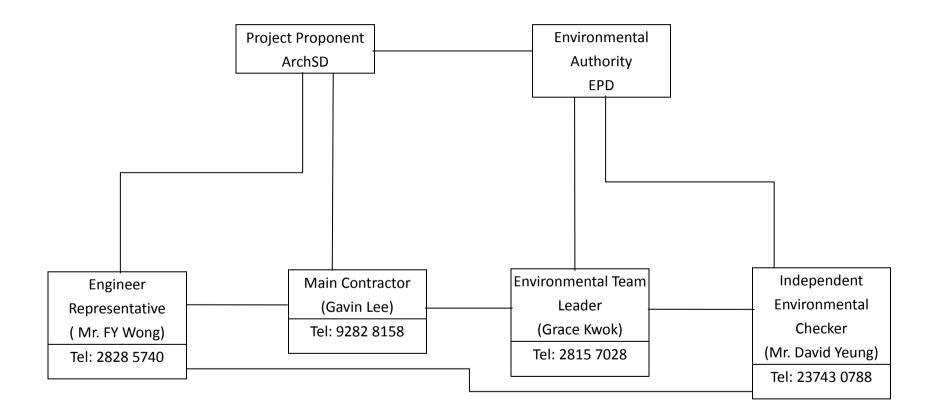
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Appendix B Organization Chart — Line of communication



Appendix C Calibration Certificates of Noise Monitoring Instruments



輝創工程有限公司 Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C123580 證書編號

ITEM TESTED / 送檢項	目頁	(Job No. / 序引編號:IC12-1472)
Description / 儀器名稱	:	Sound Level Meter
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NL-31
Serial No. / 編號	:	00410224
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : Line Voltage / 電壓 :

(23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 15 June 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Precision Measurement Ltd., UK
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested By 測試

L K Yeung

K C Lee

Certified By 核證

Date of Issue 簽發日期

:

15 June 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration 校正證書

Certificate No. : C123580 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

<u>Equipment ID</u> CL280 CL281 Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator Certificate No. C120016 DC110233

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UI	JT Setting		Applied	l Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.7	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.7 (Ref.)
				104.00		103.7
				114.00		113.7

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

	UU	T Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.7	Ref.
			Slow			93.6	± 0.3

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

c o 4F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 – 校正及檢測實驗所



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C123580 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
30 - 120	LA	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.4	-16.1 ± 1.5
		() (i) (i) (i) (i) (i) (i) (i) (i) (i) (250 Hz	85.0	-8.6 ± 1.4
					500 Hz	90.4	-3.2 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	95.0	$+1.2 \pm 1.6$
					4 kHz	94.8	$+1.0 \pm 1.6$
		1.1			8 kHz	92.7	-1.1 (+2.1 ; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0 ; -6.0)

6.3.2 C-Weighting

C noighting							
	UU	T Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)
30 - 120	L _C	C	Fast	94.00	63 Hz	92.8	-0.8 ± 1.5
					125 Hz	93.5	-0.2 ± 1.5
					250 Hz	93.7	0.0 ± 1.4
					500 Hz	93.8	0.0 ± 1.4
					1 kHz	93.7	Ref.
					2 kHz	93.6	-0.2 ± 1.6
		1			4 kHz	93.1	-0.8 ± 1.6
					8 kHz	90.8	-3.0 (+2.1;-3.1)
					12.5 kHz	88.0	-6.2 (+3.0 ; -6.0)

Remarks : - Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB	250 Hz - 500 Hz	:	± 0.30 dB ± 0.20 dB
		12.5 kHz : 1 kHz	:	± 0.45 dB ± 0.70 dB ± 0.10 dB (Ref. 94 dB) ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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輝創工程有限公司 Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124011 證書編號

ITEM TESTED / 送檢环	頁目	(Job No. / 序引編號 :IC12-1674)
Description / 儀器名稱	:	Sound Level Calibrator
Manufacturer / 製造商	:	Rion
Model No. / 型號	:	NC-73
Serial No. / 編號	:	10997142
Supplied By / 委託者	:	Envirotech Services Co.
		Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
		Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (55 ± 20)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 9 July 2012

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. All results are within manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

L K Yeung

Certified By 核證

Tested By 測試

> Date of Issue : 簽發日期

10 July 2012

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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K C Lee



Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C124011 證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement 1 of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A

Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No. C123541 DC110233 C120886

- 4. Test procedure : MA100N.
- 5. Results :

Sound Level Accuracy 5.1

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	1 kHz ± 2 %	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior

Appendix DDetail Schedule of Noise Monitoring Programme

Schedule for noise monitoring programme of Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River)

Monitoring schedule for the reporting month

Date	Time
9 th August 2012	16:07
15 th August 2012	16:00
21 st August 2012	14:10
30 th August 2012	16:00

Monitoring schedule of the coming month

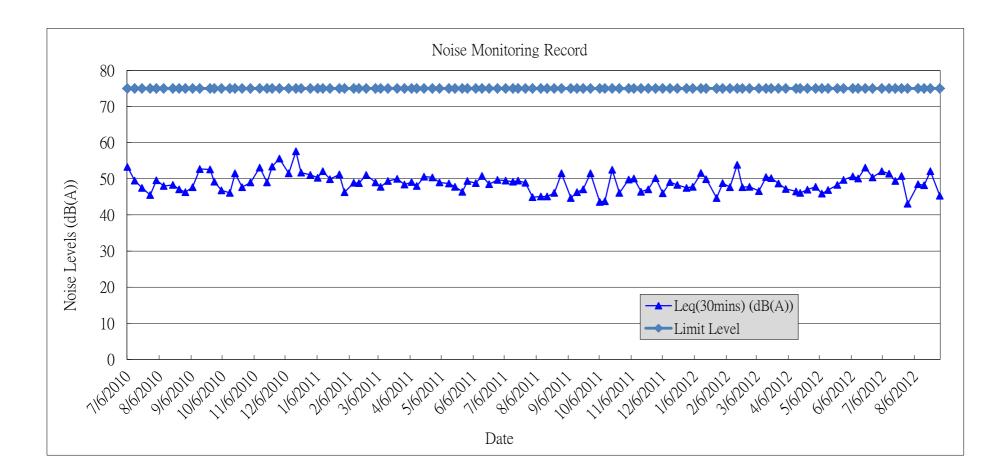
Date	Time	
5 th September 2012	To be confirmed	
11 th September 2012	To be confirmed	
18 th September 2012	To be confirmed	
27 th September 2012	To be confirmed	

Appendix E Summary and Graphical Plot of Noise Monitoring Record

Noise Monitoring Result for Construction of a Secondary Boundary Fence and New Section of Primary Boundary Fence and Boundary Patrol Road (Section 2 Lok Ma Chau Control Point to Ng Tung River)

Month: August 2012

Date	Time	Leq(30mins) (dB(A))	L10(30mins) (dB(A))	L90(30mins) (dB(A))	Limit Level
8/9/2012	16:07 - 16:37	48.5	49.5	40.6	75
8/15/2012	16:00 - 16:30	48.2	50.8	40.7	75
8/21/2012	14:10 - 14:40	52.1	53.8	38.1	75
8/30/2012	16:00 - 16:30	45.3	47.4	39.8	75



Appendix F Mitigation Measures Implementation Schedule for Construction Stage

EIA Ref. <u>Air Q</u>	Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
	g Constru	iction						
2.5.2	3.2.2	 The following good site practice should be implemented: any excavated dusty materials or stockpile of dusty materials should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet, and recovered or backfilled or reinstated within 24 hours of the excavation or unloading; the working area of excavation should be sprayed with water immediately before, during and immediately after the operations so as to maintain the entire surface wet; dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting; the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should paved with concrete, bituminous materials or hardcores; 	impact	Contractor	Constructi on Work Sites	During Construction	EIAO-TM, Air Pollution Control (Construction Dust) Regulation	*

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

	EM&A Log Ref.		Objectives of the Recommended Measures & Main	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
	iiii		Concerns to address	the measure.	incusure	the measure:	incusite to achieve.	
		 the portion of road leading only to a construction site that is within 30m of designated vehicle entrance or exit should be kept clear of dusty materials; all dusty materials should be sprayed with water prior to any loading, unloading 						^
		or transfer;vehicle speed should be limited to 10kph except on completed access roads;						^
Noise		• every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.						
	g Constr	uction						
3.8.14	4.8.1		To mitigate construction noise	Contractor	Constructi on Work	During Construction	EIAO-TM, NCO	
		 The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the Noise Control Ordinance (Chapter 400) (for Construction Industry) published by EPD; 	_		Sites			^
		• The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines;						^

Remarks:

Implement mitigation measure in the reporting month; Х

Non-compliance of mitigation measure; *

Not Applicable in the reporting month; N/A

Not satisfactory but rectified by the contractor.

As updated on 6 September 2012

^

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		• Before commencing any work, the Contractor shall submit to the Engineer						^
		Representative for approval the method of working, equipment and noise						
		mitigation measures intended to be used at the site;						
		• The Contractor shall devise and execute working methods to minimise the noise						^
		impact on the surrounding sensitive uses, and provide experienced personnel						
		with suitable training to ensure that those methods are implemented;						
		• Noisy equipment and noisy activities should be located as far away from the						^
		NSRs as is practical;						
		• Unused equipment should be turned off. PME should be kept to a minimum						^
		and the parallel use of noisy equipment / machinery should be avoided;						
		• Regular maintenance of all plant and equipment;						^
		• Material stockpiles and other structures should be effectively utilised as noise						N/A
		barriers, where practicable.						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
3.8.1	4.8.2	Other than good site practice, the Contractor is required to adopt Levels 1 and 2	To mitigate	Contractor	Constructi	During	EIAO-TM, NCO	N/A
-3.8.3	-4.8.3	site-specific direct mitigation measures as specified below during the construction	construction noise		on work	construction		
		phase. With construction / demolition work undertaken at a distance of 60m or less to the NSRs, below mitigation measures should be included:	impact		sites			
		Level 1 – Use of Quiet Plant and Movable Noise Barrier						
		• The Contractor shall obtain particular models of plant that are quieter than standards given in GW-TM.						
		 Purpose-built movable noise barriers should be used to mitigate construction noise directly at sources that are not usually mobile provide that the direct line of sight to the source is blocked. 						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
3.8.9	4.8.4	In addition to the use of quiet plant and movable noise barrier, alternative	To mitigate	Contractor	Constructi	Before the	EIAO-TM, NCO	^
		demolition method of existing boundary fence at Section 2-3 shall be used where	construction noise		on work	commenceme		
		demolition works would be undertaken at a distance of 12m or less to the NSRs.	impact for demolition		sites	nt of		
		These particular mitigation measures should be included:	of existing boundary		(Section 2	demolition		
			fence		- 3)	works		
		Level 2 – Alternative Demolition Method of Existing Boundary Fence						
		• The use of welder is recommended to replace the use of hand-held driller;						
		• The use of hand-held breaker with movable noise barrier is recommended to						
		replace the use of mini-robot mounted breaker; and the duration for the use of						
		hand-held breaker is minimal as only the surface level of the footing to be						
		broken; and						
		• The removal of the footing of the existing boundary fence should be carried by						
		concrete crusher mini-robot mounted after the surface level broken by						
		hand-held breaker.						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Appendix F Environmental Mitigation Implementation Schedule

EIA Ref.	Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
	<u>r Quality</u>							
Durin	ng Constru	action	Γ	•			I	
4.7.1	5.3.1	Good site practices in addition to the implementation of mitigation measures would	To avoid site runoff	Contractor	Constructi	During	Practice Note for	^
		minimize the impact to the surrounding environment.	and chemical leakage		on work	construction	Professional Persons with	
					sites		regard to site drainage	
		General Prevention and Precaution Measures					(ProPECC PN 1/94) and	
		• The site should be confined to avoid silt runoff to the site.					TM standard	^
		• No discharge of silty water into the storm drain and drainage channel within					under the WPCO	*
		and the vicinity of the site.						
		• Any soil contaminated with chemicals/oils shall be removed from site and the						^
		void created shall be filled with suitable materials.						
		• Stockpiles to be covered by tarpaulin to avoid spreading of materials during						^
		rainstorms;						
		• Suitable containers shall be used to hold the chemical wastes to avoid leakage						^
		or spillage during storage, handling and transport;						

Remarks:

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		• Chemical waste containers shall be labelled with appropriate warning signs in						^
		English and Chinese to avoid accidents. there shall also be clear instructions						
		showing what action to take in the event of an accidental;						
		• Storage areas shall be selected at safe locations on site and adequate space shall						^
		be allocated to the storage area;						
		• Any construction plant which causes pollution to the water system due to						N/A
		leakage of oil or fuel shall be removed off-site immediately;						
		• Spillage or leakage of chemical waste to be controlled by using suitable						^
		absorbent materials;						
		• Chemicals will always be stored on drip trays or in bunded areas where the						^
		volume is 110% of the stored volume;						
		• Regular clearance of domestic waste generated in the temporary sanitary						^
		facilities to avoid waste water spillage.						
		• Temporary sanitary facilities to be provided for on-site workers during						^
		construction.						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

		Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
4.7.2 –	5.3.2-5.	Concreting Work	To collect runoff	Contractor	Constructi	During	Practice Note for	^
4.7.3	3.3	A temporary drainage channel and associated facilities should be provided to collect	generated and prevent		on work	construction	Professional Persons with	
		the runoff generated and prevent concrete-contaminated water from entering	concrete-contaminated		sites		regard to site drainage	
		watercourses. Adjustment of pH can be achieved by adding a suitable neutralising	water from entering				(ProPECC PN 1/94) and	
		reagent to wastewater prior to discharge.	watercourses				TM standard under the	
							WPCO	
		The concreting works should be temporarily isolated with proper methods, such as					CEDD General	

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		by placing of sandbags or silt curtains with lead edge at bottom and properly	To prevent adverse				Specification- Protection	N/A
		supported props.	impacts on the water		Work sites		of natural streams/rivers-	
			quality of Lin Ma		of Section		Clause 25.09	
			Hang Stream SSSI		3 in the			
					proximity			
					of Lin Ma			
					Hang			
					Stream			
					SSSI			
4.7.4	5.3.4	Soil Excavation and Stockpiling	To avoid site runoff	Contractor	Constructi	During	Practice Note for	^
		Excavated soil which needs to be temporarily stockpiled should be stored in a			on work	construction	Professional Persons with	
		specially designated area and provided with a tarpaulin cover to avoid runoff into			Sites		regard to site drainage	
		the drainage channels.					(ProPECC PN 1/94) and	
							TM standard under the	
							WPCO	

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

	EM&A Log		Objectives of the Recommended	Who to implement	Location of the	When to implement	What requirements or standards for the	Status
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
4.7.5 -	5.3.5-5.	Site Depot	To avoid wash-out of	Contractor	Constructi	During	Practice Note for	N/A
4.7.6	3.6	All compounds in works areas should be located on areas of hard standing with	oil during storm		on work	construction	Professional Persons with	
		provision of drainage channels and settlement ponds where necessary to allow	conditions		Sites		regard to site drainage	
		interception and controlled release of settled/treated water. Hard standing					(ProPECC PN 1/94) and	
		compounds should drain via an oil interceptor. The oil interceptor should be					TM standard under the	
		regularly inspected and cleaned to avoid wash-out of oil during storm conditions. A					WPCO	
		bypass should be provided to avoid overload of the interceptor's capacity. Any						
		contractor generating waste oil or other chemicals as a result of his activities should						

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		register as a chemical waste producer. Disposal of the waste oil should be done by a licensed collector. Good housekeeping practices should be implemented to minimise careless spillage and to keep the storage and the work space in a tidy and clean condition. Appropriate training including safety codes and relevant manuals should be given to the personnel who regularly handle the chemicals on site.						^
4.7.7		Construction of Checkpoint Sewage system should be constructed to divert domestic sewage, which will be generated from the sanitary facilities provided in the new checkpoint at Shek Chung Au, to public sewer connected to government sewage treatment facilities.	_	Contractor	Constructi on work Site at Checkpoin t	During construction	N/A	N/A
	Manager g Constru			1				

Remarks:

^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
5.6.7	6.3.6	Site Clearance	Prevent the generation	Contractor	Constructi	During	Waste Disposal	^
		The topsoil and vegetation removed and excavated material may have to be	of dust and pollution		on work	construction	Ordinance (Cap.354);	
		temporarily stockpiled on-site. Control measures should be taken at the stockpiling	of storm water		sites		ETWBTC No. 15/2003,	
		area to prevent the generation of dust and pollution of stormwater channels, fish	channels				Waste Management on	
		ponds or river channels. However, to eliminate the risk of blocking drains in the wet					Construction Site	
		season, it is recommended that stockpiling of excavated materials during the wet						
		season should be avoided as far as practicable.						
5.6.10	6.3.8	Construction and Demolition Materials	Minimize	Contractor	Constructi	During	Waste Disposal	^
_		Careful design, planning and good site management can minimize over-ordering	over-ordering and		on work	construction	Ordinance (Cap.354);	
5.6.12		and generation of waste materials such as concrete mortars and cement grouts. The	generation of waste		sites		ETWBTC No. 15/2003,	
		design of formwork should maximize the use of standard wooden panels so to	materials				Waste Management on	
		achieve high reuse levels. Alternatives such as steel formwork or plastic facing					Construction Site	
		should be considered to increase the potential for reuse.						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		The Contractor should recycle as much of the C&D materials as possible on-site. Proper segregation of waste on-site will increase the feasibility of certain components of the waste stream by the recycling contractors. Different areas of the worksite shall be designated for such segregation and storage wherever site conditions permit. Trip-ticket system should be employed to monitor the disposal of C&D material and solid at public filling facilities and landfills, and to control fly-tipping. Government has established a differentiated charging scheme for the disposal of waste to landfill, construction waste sorting facilities and public fill facilities. This will provide additional incentives to reduce the volume of waste generated and to ensure proper segregation of wastes.						
		Chemical Waste For those processes which generate chemical waste, it may be possible to find alternatives which generate reduced quantities or even no chemical waste, or less dangerous types of chemical waste.	To avoid chemical leakage	Contractor	Constructi on work sites	During construction planning	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, Waste Disposal	^

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal					(Chemical Waste)	^
		(Chemical Waste) (General) Regulation, should be handed in accordance with the					(General) Regulation	
		Code of Practice on the Packaging, Handling and Storage of Chemical Waste as						
		follows:						
		Containers used for the storage of chemical wastes should:						^
		• be suitable for the substance they are holding, resistant to corrosion, maintained						^
		in a good condition, and securely closed:						
		• have a capacity of less than 450 litres unless the specification have been						^
		approved by the EPD; and						
		• display a label in English and Chinese in accordance with instructions						^
		prescribed in Schedule 2 of the Regulations,						
		The storage area for chemical wastes should:						^
		• be clearly labelled and used solely for the storage of chemical waste;						^
		• be enclosed on at least 3 sides;						^
		• have an impermeable floor and bunding, of capacity to accommodate 110% of						^
		the volume of the largest container or 20% by volume of the chemical waste						
		stored in that area whichever is the greatest;						
Remarks:	^	Implement mitigation measure in the reporting month; X Non-compliance of mitigati	on measure;					
	N/A	A Not Applicable in the reporting month; * Not satisfactory but rectified	d by the contractor.					

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
		have adequate ventilation;						^
		• be covered to prevent rainfall entering (water collected within the bund must be						^
		tested and disposed as chemical waste if necessary); and						
		• be arranged so that incompatible materials are adequately separated.						^
		Disposal of chemical waste should:						^
		• be via a licensed waste collector; and						^
		• be to a facility licensed to receive chemical waste, such as the Chemical Waste						^
		Treatment Facility which also offers a chemical waste collection service and						
		can supply the necessary storage containers, or						
		• to be re-user of the waste, under approval from the EPD.						N/A
5.6.16	6.3.15	General Refuse	Minimise odour, pest	Contractor	Constructi	During	Public Health and	*
		Should be stored in enclosed bins or compaction units separate from C&D and	and litter impacts		on work	construction	Municipal Services	
		chemical wastes. The Contractor should employ a reputable waste collector to			sites		Ordinance (Cap. 132)	
		remove general refuse from the site, separate from C&D and chemical wastes, on a						
		regular basis to minimise odour, pest and litter impacts. Burning of refuse on						
		construction sites is prohibited by law.						

^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
5.6.18	6.3.16	Construction Waste Management Plan	Waste management	Contractor	Constructi	During	ETWB TCW No.	^
		A construction waste management plan (CWMP) should be prepared and developed	during construction		on work	construction	19/2005, Waste	
		by the contractor to ensure proper collection, treatment and disposal of waste on			sites		Management on	
		site. This CWMP will also take into account the requirement to handle chemical					Construction Sites	
		wastes on site which will need to be managed by a licensed waste collection						
		contractor.						
Ecolo	ogy							
Table	7.2	Ecological Impacts on Floral Species of Conservation Concern	Protect the plant	Contractor	Constructi	During	EIAO	^
6.38		Erection of protective fencing to protect the plant during construction period	during construction		on work	construction		
			period		sites			

Remarks: ^ Implement mitigation measure in the reporting month;

- Х Non-compliance of mitigation measure;

Not Applicable in the reporting month; N/A

Not satisfactory but rectified by the contractor. *

	EM&A Log		Objectives of the Recommended	Who to implement	Location of the	When to implement	What requirements or standards for the	Status
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	7.2	Potential Ecological Impacts on Offsite Habitats	To avoid site runoff	Contractor	Constructi	During	EIAO / Air Pollution	^
6.40		Good site practices for controlling the dust and water quality (avoid stockpiles	and dust impact		on work	construction	Control	
		adjacent to wetlands, covering the stockpiles with impervious sheeting, control of			sites		(Construction Dust)	
		vehicle speed, no discharge of silty water to the rivers, streams and drainage					Regulation / WPCO	
		channels);						
		Clear definition of works limit to avoid impact on adjacent habitats						

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status		
Table	7.2	Disturbance to Wetland-Dependent Birds, Raptors, Terrestrial Birds and	To minimize	Contractor	Constructi	During	EIAO / Air Pollution	^		
6.39-T		Egretry	disturbance to wildlife		on work	construction	Control			
able		Good working practices include switching off unused equipment, keep minimum			sites		(Construction Dust)			
6.45		number of powered mechanical equipment in operation at the same period, the use					Regulation / WPCO			
		of stockpiles and other structures to form noise barriers where practicable,								
		avoidance of feeding the wildlife to cause disturbance, site confinement and proper								
		cover of stockpiles with impervious sheeting to minimize construction noise,								
		uncontrolled surface runoff and discharge of silts;								
		Avoidance of construction works using Power Mechanical Equipments within the								
		Wetland Conservation Area during bird migratory season (15th November - 15th								
		March); and								
		Restriction of excavation works within a 150m buffer zone from the egretry								
		to ardeid non-breeding season (from August to February).								
Cultur	Cultural Heritage									

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
8.7.1 –	8.1.1 -	An archaeological survey should be undertaken at the study areas of Pak Fu Shan	Assess the	Contractor	The study	After land	Antiquities and	N/A
8.7.4	8.1.4	and Lin Ma Hang of Section 3 after land resumption and before commencement of	archaeological impact	(through	areas of	resumption	Monuments Ordinance /	
		construction works	on the two identified	professional	Pak Fu	and before	EIAO	
			sites of archaeological	archaeologist)	Shan and	commenceme		
			potential.		Lin Ma	nt of		
					Hang of	construction		
					Section 3	works		

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
8.7.6		Built Heritage Resources Mitigation in the form of buffer zones and safe public access have been proposed	Avoid impacts to built heritage resources	Contractor	The works that are	During Construction	EIAO	N/A
		for one shrine (BF-HB1) and two graves (BF-G1 and G2)			located in the vicinity			
		BF-HB1 A buffer zone of a minimum distance of 1 metres should be established between the			of built heritage			
		shrine and any construction works in close proximity. The buffer zone should be marked out by temporary fencing. Safe public access should be provided to the shrine during any construction works in close proximity.			resources (BF-HB1 and BF-G1			
		BF-G1 and BF-G2			and G2)			
		A buffer zone of a minimum distance of 1 metres should be established between the graves and any construction works in close proximity. The buffer zone should be marked out by temperary faming. Safe public access should be provided to the						
		marked out by temporary fencing. Safe public access should be provided to the graves during any construction works in close proximity.						

^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Lands	cape and	Visual						
		Preservation of Existing Vegetation						
Table 7-13 CP1	Table 9-1	• To retain trees that have high amenity or ecology value and contribute most to the landscape and visual amenity of the site and its immediate environs.	Preservation of Existing Vegetation	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• Creation of precautionary area around trees to be retained equal to half of the trees canopy diameter. Precautionary area to be fenced.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Before construction phase commences	TM-EIA	^
Table 7-13 CP1	Table 9-1	• Prohibition of the storage of materials including fuel, the movement of construction vehicles, and the refuelling and washing of equipment including concrete mixers within the precautionary area.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Table 7-13 CP1	Table 9-1	 Phased segmental root pruning for trees to be retained and transplanted over a suitable period (determined by species and size) prior to lifting or site formation works which affect the existing rootball of trees identified for retention. The extent of the pruning will be based on the size and the species of the tree in each case. 	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• Pruning of the branches of existing trees identified for transplantation and retention to be based on the principle of crown thinning maintaining their form and amenity value.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• The watering of existing vegetation particularly during periods of excavation when the water table beneath the existing vegetation is lowered.	To ensure the success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
Table 7-13 CP1	Table 9-1	• The rectification and repair of damaged vegetation following the construction phase to it's original condition prior to the commencement of the works or replacement using specimens of the same species, size and form where appropriate to the design intention of the area affected	of the tree	Project Landscape Architect / Contractor	Site	Throughout construction phase	Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	N/A

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

As updated on 6 September 2012

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Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
	Table 9-1	• All works affecting the trees identified for retention and transplantation will be carefully monitored. This includes the key stages in the preparation of the trees, the implementation of protection measures and health monitoring through out the construction period	success of the tree preservation proposals.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
	Table 9-1	• Detailed landscape and tree preservation proposals will be submitted to the relevant government departments for approval under the lease conditions and in accordance with ETWB TCW No. 2/2004 and WBTC No. 3/2006.	To ensure the tree preservation and planting proposals are integrated with the existing landscape context and that the landscape resources are preserved where appropriate.	Project Landscape Architect / Contractor	Site	Throughout construction phase	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	٨

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• The tree preservation works should be implemented by approved Landscape	To ensure the tree	Contractor	Site	Throughout	TM-EIA Annex 18,	^
7-13	9-1	Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection specification would be included within the contract	preservation and			construction phase	ETWB TCW No. 2/2004	
		documents.	planting proposals are			Prince	& ETWB TCW No.	
GD 4			integrated with the					
CP1			existing landscape				3/2006	
			context and that the					
			landscape resources					
			are preserved where					
			appropriate.					
		Preservation of Existing Topsoil						
Table	Table	• Topsoil disturbed during the construction phase should be tested using a standard soil testing methodology and where it is found to be worthy of	To provide a viable	Contractor	Site	Throughout	TM-EIA	^
7-13	9-1	retention stored for re-use.	growing medium			construction	Annex 18	
			suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					

^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• The soil will be stockpiled to a maximum height of 2m and will be either temporarily vegetated with hydroseeded grass during construction or covered	To provide a viable	Contractor	Site	Throughout	TM-EIA Annex 18	^
7-13	9-1	with a waterproof covering to prevent erosion.	growing medium			construction	Annex 18	
			suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					
Table	Table	• The stockpile should be turned over on a regular basis to avoid acidification and the degradation of the organic material, and reused after completion.	To provide a viable	Contractor	Site	Throughout	TM-EIA Annex 18	^
7-13	9-1	Alternatively, if this is not practicable, it should be considered for use elsewhere, including other projects.	growing medium			construction	Annex 18	
		ersewhere, including other projects.	suited to the existing			phase		
CP2			conditions and reduce					
			the need for the					
			importation of top					
			soil.					
		Permanent and Temporary Works Areas						

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• Where appropriate to the final design the landscape of these works areas should be restored following the completion of the construction phase.	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Annex 18	
CP3								
Table	Table	 Construction site controls should be enforced including the storage of materials, the location and appearance of site accommodation and the careful design of 	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA Annex 18	^
7-13	9-1	site lighting to prevent light spillage.	landscape resources and change of visual amenity.			phase	Alliex To	
CP3								
		Mitigation Planting						
Table	Table	• Replanting of disturbed vegetation should be undertaken at the earliest possible stage of the construction phase	To minimise the disturbance to existing	Contractor	Site	Through out construction	TM-EIA	N/A
7-13	9-1		landscape resources and change of visual amenity.			phase	Annex 18	
CP4								

- ^ Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• Use of native plant species predominantly in the planting design for the buffer	To minimise the	Contractor	Site	Through out	TM-EIA	N/A
	9-1	areas.	disturbance to existing landscape resources and change of visual amenity.	Contractor	Site	construction phase	Annex 18	1.1.1.1
CP4								
	Table 9-1	 The tree planting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree planting specification would be included within the contract documents. 	disturbance to existing	Contractor	Site	Through out construction phase	TM-EIA Annex 18	^
CP4								
		Transplantation of Existing Trees		I		I		
Table 7-13 CP5	Table 9-1	• The tree transplanting works should be implemented by approved Landscape Contractors and inspected and approved on site by a qualified Landscape Architect. A tree protection / transplanting specification would be included within the contract documents.	disturbance to existing	Contractor	Site	Prior to the commencem ent of the proposed	TM-EIA Annex 18, ETWB TCW No. 2/2004 & ETWB TCW No. 3/2006	^
						works		
		Design of the Fence and associated Structures	•				•	

- Implement mitigation measure in the reporting month;
- X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA Ref.	EM&A Log Ref.		Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
Table 7-14 OP1	Table 9-2	These structural elements will be designed in accordance with security requirement from Police Force and incorporate design features as part of design mitigation measures including:	Responsive design to integrate the proposals into their landscape and visual context.	ArchSD	Site	Throughout design phase	TM-EIA Annex 18 and BD	^
		 Integrated design approach – the boundary fence should integrated, as far as technically feasible, with existing built structures such as existing road, footpath and track and embankment of fishponds, river and drainage channel as part of design mitigation measures to reduce the potential cumulative impact of the proposed works. The location and orientation of the police check points should be away from landscape and visually sensitive areas such wetland, fishpond and agricultural field. 						^
		 Building massing - the proposed use of simple responsive design for the built structures with a low building height profile to reduce the potential visual mass of the structure within a rural context. 						N/A

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

EIA	EM&A	Recomme	ended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log			Recommended	implement	of the	implement	standards for the	
	Ref.			Measures & Main	the measure?	measure	the measure?	measure to achieve?	
				Concerns to address					
		3.	Treatment of built structures - the architectural design should seek to						N/A
			reduce the apparent visual mass of the facilities further through the use						
			of natural materials such as wooden frame, vertical greening or other						
			sustainable materials such as recycled plastic.						
		4.	Responsive building and fence finishes - In terms of the proposed						N/A
			finishes natural tones should be considered for the colour palette with						
			non-reflective finishes are recommended to reduce glare effect. The use						
			of colour blocking on the proposed fence could be used to break up the						
			visual mass of the structure.						

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

*

N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measure?	Location of the measure	When to implement the measure?	What requirements or standards for the measure to achieve?	Status
		 5. Responsive lighting design – Aesthetic design of architectural and track lighting with following glare design measures: Directional and full cut off lighting is recommended particularly for areas adjacent to existing village to minimise light spillage. Minimise geographical spread of lighting, only applied for safety and security reasons; Limited lighting intensity to meet the minimum safety and operation requirement; and High-pressure sodium road lighting is recommended for more stringent light control reducing spillage and thus visual impacts. 						N/A
		Compensatory Planting Proposals	1	1	L	1	1	
Table 7-14 OP2	Table 9-2	• Utilise native to Hong Kong will be utilized within the buffer planting areas.	Planting will serve to visually integrate the proposals within the existing landscape framework.	Contractor	Site	Throughout design phase	TM-EIA Annex 18, HKPSG and BD	N/A

Remarks:

Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

N/A Not Applicable in the reporting month;

* Not satisfactory but rectified by the contractor.

As updated on 6 September 2012

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EIA	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Ref.	Log		Recommended	implement	of the	implement	standards for the	
	Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
			Concerns to address					
Table	Table	• A qualified or registered landscape architect will be involved in the design, construction supervision and monitoring, and maintenance period to oversee the		Contractor	Site	Throughout design phase	TM-EIA	^
7-14	9-2	implementation of the recommended landscape and visual mitigation measures including the tree preservation and landscape works on site.				dosign phase	Annex 18, HKPSG and BD	
OP 2 /			improving the ecological					
3			connectivity between					
			existing and proposed woodland habitats.					
Table	Table	 Tree and Shrub Planting – Given the rural nature of the proposed alignment it is recommended that the where possible tree and shrub species which are 	The planting proposal seeks to compensate	Contractor	Site	Throughout design phase	TM-EIA	N/A
7-14	9-2	native to Hong Kong be used. In addition where possible the planting of new trees and shrubs will aim to link together existing woodland areas and small	for the predicted tree				Annex 18, HKPSG and BD	
		tree groups to improve the connectivity between habitats and create more						
OP 2		coherent landscape framework. The planting of small groups of trees along the alignment of the proposed fence will serve to de-emphasise the horizontality of						
		the fence structure and provide for better sense of visual integration with the landscape context. Where practicable vertical greening measures should also						
		be considered on engineering structures.						

Remarks: ^ Implement mitigation measure in the reporting month;

- Х Non-compliance of mitigation measure; *
- Not Applicable in the reporting month; N/A

Not satisfactory but rectified by the contractor.

	Recommended Mitigation Measures	Objectives of the	Who to	Location	When to	What requirements or	Status
Log		Recommended	implement	of the	implement	standards for the	
Ref.		Measures & Main	the measure?	measure	the measure?	measure to achieve?	
		Concerns to address					
Table	• Compensatory Planting Proposals – Given the works extent is largely limited	The planting proposal	Contractor	Site	Throughout	TM-EIA	N/A
9-2		-			design phase	Annex 18, HKPSG and BD	
/ _	stream course and existing trees, and considered the importance of tree	loss.					
	include the planting of some 357 new trees utilising a combination of mature						
	proposed planting will result in a compensatory planting ratio of 1:1 (new						
	area will contain approximately 2000 trees. Trees forming part of the new						
		 Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond, stream course and existing trees, and considered the importance of tree retention within the works area, new tree planting will concentrate in selected new amenity areas along the alignment, infilling between retained and transplanted trees. The preliminary planting proposals for the proposed works include the planting of some 357 new trees utilising a combination of mature to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasise the horizontality of the fence alignment. Based on preliminary findings the proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the report's assertion that some 357 trees would be felled due to the proposed works. With the proposed preservation of existing trees, transplantation of trees in conflict with the proposals and the planting of new trees the project 	Ref.Measures & Main Concerns to addressTable 9-2• Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond, stream course and existing trees, and considered the importance of tree retention within the works area, new tree planting will concentrate in selected new amenity areas along the alignment, infilling between retained and transplanted trees. The preliminary planting proposals for the proposed works include the planting of some 357 new trees utilising a combination of mature to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasise the horizontality of the fence alignment. Based on preliminary findings the proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the report's assertion that some 357 trees would be felled due to the proposed works. With the proposel preservation of existing trees, transplantation of trees in conflict with the proposals and the planting of new trees the project area will contain approximately 2000 trees. Trees forming part of the new planting will provide screening to neighbourhood villagers and will utilise species native to Hong Kong. These proposals will be subject to review at	Ref. Measures & Main Concerns to address the measure? Table 9-2 • Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond, stream course and existing trees, and considered the importance of tree retention within the works area, new tree planting will concentrate in selected new amenity areas along the alignment, infilling between retained and transplanted trees. The preliminary planting proposals for the proposed works include the planting of some 357 new trees utilising a combination of mature to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasise the horizontality of the fence alignment. Based on preliminary findings the proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the report's assertion that some 357 trees would be felled due to the proposed works. With the proposed preservation of existing trees, transplantation of trees in conflict with the proposals and the planting of new trees the project area will contain approximately 2000 trees. Trees forming part of the new planting will provide screening to neighbourhood villagers and will utilise species native to Hong Kong. These proposals will be subject to review at Image: Contractor	Ref.Measures & Main Concerns to addressthe measure?measureTable 9-2• Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond, stream course and existing trees, and considered the importance of the predicted tree new amenity areas along the alignment, infilling between retained and transplanted trees. The preliminary planting proposals for the proposed works. include the planting of some 357 new trees utilising a combination of mature to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasise the horizontality of the fence alignment. Based on preliminary findings the proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the report's assertion that some 357 trees would be field due to the proposed works. With the proposed preservation of existing trees, transplantation of trees in conflict with the proposals and the planting of new trees the project area will contain approximately 2000 trees. Trees forming part of the new planting will provide screening to neighbourhood villagers and will utilise species native to Hong Kong. These proposals will be subject to review atthe measure?measure	Ref. Measures & Main Concerns to address the measure? measure the measure? Table 9-2 • Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as welland, fishpond, stream course and existing trees, and considered the importance of tree retention within the works area, new tree planting will concentrate in selected new amenity areas along the alignment, infilling between retained and transplanted trees. The preliminary planting proposals for the proposed works include the planting of some 357 new trees utilising a combination of mature to light standard sized stock (i.e. approximately 15% of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasise the horizontality of the fence alignment. Based on preliminary findings the proposed planting will result in a compensatory planting ratio of 1:1 (new planting: trees recommended for felling). This compares favourably with the reports assertion that some 357 trees would be felled due to the proposed works. With the proposal sort the planting of new trees the project area will contain approximately 2000 trees. Trees forming part of the new planting will provide screening to neighbourhood villagers and will thilise species native to Hong Kong. These proposals will be subject to review at the measure? measure the measure?	Ref. Measures & Main Concerns to address the measure? measure the measure? measure Table • Compensatory Planting Proposals – Given the works extent is largely limited along existing roadside embankment to minimise impact to existing village settlements and valuable landscape resources such as wetland, fishpond, extramo considered the importance of tree retention within the works area, new tree planting will concentrate in selected new amenity areas along the alignment, infilling between retained and to light standard sized stock (i.e. approximately 15%) of mature trees, 75% of standard trees, and 10% light standard trees). These trees will be planted in woodland clumps and small tree groups at strategic locations to de-emphasies the horizontality of the fence alignment. Based on preliminary planting reto, satisfies for the proposed works. With the proposed preservation of existing trees, transplantation of trees in conflict with the proposal small be planting on the test proposed works. With the proposal grees returned for felling). This compares favourably with the proposed planting will rosuid be folled due to the proposed works. With the proposal grees returned for felling, the proposal works. With the proposal meres, the proposal works in grees in conflict with the proposal small be planting on new trees the project area will contain approximately 2000 trees. Trees forming part of the new planting will provide screening to neighbourhood villagers and will utilis species native to Hong Kong. These proposals will be subject to review at measure? measure? measure? Main The planting will provide screening to neighbourhood villagers and will utilis The proposal small will with the proposed screening to neighbourhood villagers and will utilis

Remarks: ^ Implement mitigation measure in the reporting month;

X Non-compliance of mitigation measure;

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N/A Not Applicable in the reporting month;

Not satisfactory but rectified by the contractor.

Appendix G Complaint Log

Appendix G – Complaint Logs

Complaints

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status

Appendix H Monthly Waste Flow Table

Architectural Services Department

Form No. D/OI.03/09.002

Contract No. / Works Order No.: - SS W 306

Monthly Summary Waste Flow Table for August [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

		Actual Quantities of In	ert Construction Waste Ge	enerated Monthly	
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 4)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)
Jan	0	0	0	0	0
Feb	0	0	0	0	0
Mar	0	0	0	0	0
Apr	0	0	0	0	0
May	0	0	0	0	0
Jun	0	0	0	0	0
Sub-total	0	0	0	0	0
Jul	0	0	0	0	0
Aug	0.13	0	0	0	0.13
Sep					
Oct					
Nov					
Dec					
Total	0.13	0	0	0	0.13

Architectural Services Department

Form No. D/OI.03/09.002

					Actual Qua	ntities of Nor	n-inert Constr	uction Waste	Generated M	onthly			
Month	Tin	ıber	Me	tals	Paper/ ca packa	ardboard aging	Plas (see N		Chemical Waste		Other Recyclable Materials (pls. specify)		General Refuse disposed of at Landfill
	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '000m ³)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0.013
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0.007
May	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0.034
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0.013
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0.007
Sep													
Oct													
Nov													
Dec													
Total	0	0	0	0	0	0	0	0	0	0	0	0	0.054

Description of mode and details of recycling if any for the month e.g. XX kg of used timber was sent to YY site for transformation into fertilizers								

Notes: (1) The performance targets are given in the Particular Specification on Environmental Management Plan.

(2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(4) Broken concrete for recycling into aggregates.

(5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m^3 by volume.

Appendix I Status of License and Permit

Itom	Permit/License /Ref.	Validity		Domonika
Item	No.	From	То	Remarks
Variation of Further Environmental Permit	FEP-02/347/2009/A	13 th Jul 2010	N.A.	
Variation of Environmental Permit	EP-347/2009/A	9 th Jun 2010	N.A.	
Notification Pursuant to Section 3(1) of The Air Pollution Control	313192	8 th Jan 2010	N.A.	
(Construction Dust) Regulation				
Registration of Chemical Waste Producer	5213-542-A2587-02	4 th Mar 2010	N.A.	
Construction Noise Permit for Generator	GW-RN0273-12	5 th Jun 2012	4 th Dec 2012	