Contract No. GE/2013/06

Landslip Prevention and Mitigation Programme, 2008, Package J

Landslip Prevention and Mitigation Works in New Territories

Above Leung Fai Tin along Clear Water Bay Road, Sai Kung

Study Area: 12/NW-C/SA1 (Study Area H)

Independent Environmental Checker (IEC) Monthly Audit Report No. 27 April 2016

182663/B&V/027/Issue 1

Kwan On Construction Co Ltd 4/F & 5/F, So Hong Commercial Building 41-47 Jervois Street Sheung Wan, Hong Kong Black & Veatch Hong Kong Limited 25/F, Millennium City 6 392 Kwun Tong Road Kowloon, Hong Kong

May 2016

Docum	ent Contro	ol	CEDD Contract No. GE/2013/06 Landslip Prevention and Mitigation Works in New Territories	No: 182663/B&V/027/ Issue 1		
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			Client: Kwan On Construction Co. Ltd	Initials: MC Date: 12 th May 2016		
Pages	Date	Issue No.	Description	Initials:		
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CEDD Contract No. GE/2013/06 Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H)

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APPENDICES

Appendix A Environmental Inspection Checklist

	Name	Signature	Date
Prepared	YIP King Wa	là	12 May 2016
Checked	Manuel CHUA	fin	12 May 2016
Reviewed / Authorised	Norman SONG	Ston	16 May 2016

1. INTRODUCTION

1.1 Background and Project Description

- 1.1.1 Geotechnical Engineering Office (GEO) of the Civil Engineering and Development Department has identified about 2700 natural hillside catchments with a known history of landslides close to existing buildings and important transport corridors based on interpretation of large-scale historical aerial photographs. Natural hillside catchments affecting individual units of existing development are further grouped into different Study Areas designated for natural terrain hazard studies by GEO.
- 1.1.2 The natural hillside, Study Area No. 12NW-C/SA1, at Leung Fai Tin above Clear Water Bay Road in Clear Water Bay Peninsula, includes a number of hillside catchments which warrant high priority for natural terrain hazard study and mitigation actions. The location and the extent of the Study Area are shown in **Figure 1**.
- 1.1.3 The natural hillside within the Study Area has been disturbed since 1940s, and there were 3 landslides identified to have occurred on the natural hillside in 1970s. A detailed natural terrain hazard study concluded that the natural hillside within the Study Area is highly susceptible to landslide failures and the landslide debris would travel downslope and be channelised along the stream course reaching Clear Water Bay Road and the village houses at Leung Fai Tin.
- 1.1.4 Hence, natural terrain hazard mitigation works (HMW) are required at the lower portion of the Study Area (hereinafter referred to as the "Works Area") to mitigate the potential hazards arising from natural terrain open hillslope landslides, boulder falls and channelised debris flows at the Study Area affecting Clear Water Bay Road and village houses at Leung Fai Tin downhill. The proposed natural terrain HMW includes erection of tensioned steel mesh fences (also known as flexible barrier), construction of masonry maintenance staircases and associated landscape treatments at the Works Area. The extent of the Works Area has been carefully considered to limit the extent of proposed works, necessary working space and the site access.

1.2 Types of Designated Project

- 1.2.1 The Natural Terrain Hazard Mitigating Works at Study Area No. 12NW-C/SA 1 above Leung Fai Tin along Clear Water Bay Road, Sai Kung is referred as "Designated Project" (DP) which includes the works area of the Project falls within a Conservation Area under the approved Clear Water Bay Peninsula South Outline Zoning Plan No. S/SK-CWBS/2 and Item Q.1 Part 1 of Schedule 2 under the Environmental Impact Assessment Ordinance (EIAO). The Project Profile (Register No. PP-480/2013) was submitted for directly application of Environmental Permit (EP) on 18 March 2013. Environmental Protection Department (EPD) granted the EP (EP No.: EP-448/2013) to the GEO/Civil Engineering and Development Department (hereinafter referred to as the "Client") in 10 April 2013 to construct the Designated Project (DP) under the Environmental Impact Assessment Ordinance (EIAO).
- 1.2.2 According to the EP Specific Condition Clause 2.5, the Permit Holder shall employ an

Independent Environmental Checker (IEC) to audit the implementation of all mitigation measures recommended in the Project Profile and the approved Landscape and Compensatory Planting Plan, and to certify in writing in the monthly audit report full implementation of the mitigation measures during and upon completion of the construction works. The IEC shall not be in any way an associated body of the Contractor of the Project.

1.3 Location and Scale of Project

- 1.3.1 The proposed HMW will be constructed within the Works Area at the lower portion of the Study Area No. 12NW-C/SA1 above Clear Water Bay Road, Leung Fai Tin in Clear Water Bay Peninsula. The Works Area is located within a Conservation Area. Extent of the Works Area is approximately 6,000m² and the project comprises as follows:
 - a. Erect about 250m long, 5m-6m high flexible barrier supported by vertical and raking steel bar anchors (about 120 nos.) to be drilled and installed in ground.
 - b. Construct of 300m long, 600mm wide masonry maintenance access with handrails
 - c. Provision of soft landscape works includes pit-planting of native/shrub seedlings, plant of climbers and hydroseeding.

1.4 Organisation and Reporting Schedule

1.4.1 CEDD commissioned CH2M HILL Halcrow China Limited (CHMHC) as the Engineer. The Contractor of the Project is Kwan On Construction Co. Ltd (KOCCL). Black & Veatch Hong Kong Limited (B&V) was appointed as Independent Environmental Checker (IEC) on 10 February 2014. This Report covers the period of **April 2016**.

2. PROGRESS OF THE CONTRACT

2.1 Status of the Environmental Licence and Permits

2.1.1 **Table 2-1** presents a summary of the status of environmental licenses and permits for this Contract.

Type of Licence	Permit/License	Issue Date	Covered Area	Validity	Status
	No.				
Environmental	EP-448/2013	10 April 2013	Study Area No.	Whole Project	Valid
Permit			12NW-C/SA1		
			above Leung Fai		
			Tin along Clear		
			Water Bay		
			Road, Sai Kung		

Table 2-1 Status of Environmental Permit

2.2 **Progress of the Construction Works**

2.2.1 The Project has been commenced on 15 January 2014. During the reporting period, construction of masonry finish for the maintenance access was being conducted and completed. Site audit was carried out along the works areas as shown in **Figure 2**.

2.3 Summary of Site Inspection and Audit

- 2.3.1 Temporary access outside the permitted boundary, recorded in September 2014, was fenced off properly. No further work was carried out outside the permitted boundary.
- 2.3.2 Joint site audit was carried out with CHMHC and KOCCL on 27 April 2016. **Photos 1 to 7** show the construction work progress within permitted works areas. All major construction works have been completed. Landscaping works (**Photos 8 to 10**) were carried out in accordance with the approved Landscape and Compensatory Planting Plan.

Potential Tree Felling

Trees along the temporary works area were inspected. No tree damage was observed. 2.3.3 Temporary tree protective cover to tree trunk were provided. As stated in the EP, a total of 25 individuals (non-protected) were identified along and in the close proximity of the alignment such that tree felling cannot be avoided. They are comprised of 11 tree species whilst all of them are not protected species but either common or very common on hillsides of Hong Kong. Summary of the Non-protected tree individuals which will be felled are shown as follows: T020 (Machiltts chekiangensis), T021 (Meliosma rigida), T024 (Apomsa dioica), T025 (Machilus chekiangensis), T026 (Diospyros monisiana), T027 (Diospyros morrisiana), T028 (Archidendron lucidum), T190 (Aporusa dioica), T305 (Aporusa dioica), T489 (Cinnamomum parthenoxylon), T494 (Mallotus paniculatus), T496 (Scheiflera heptaphylla), T497 (Diospyros morrisiana), T499 (Machilus chekiangensis), T543 (Diospyros monisiana), T544 (Machilus chekiangensis), T792 (Meliosma rigida), T793 (Diospyros momsiana), T807 (Eurya nitida), T855 (Machilus chekiangensis), T856 (Scolopia saeva), TA001 (Aporusa dioica), TA017(Machilus chekiangensis), TA036 (Schejflera heptaphylla) and TA062 (Acrofnychia pedunculata).

2.3.4 In order to fit the existing ground profile on Site and to reduce the numbers of trees being felled as proposed in the Project Profile, the alignment of flexible barriers have been further refined. Based on the final completed alignment of the flexible barriers, no trees will need to be felled.

Aquilaria sinensis & Pavetta hongkongensis

- 2.3.5 Bright colour tree protection signage was provided at protective trees (**Photos 11 to 12**). Protective tree measures have also been provided. Information sheet with colour photos of *Aquilaria sinensis* and *Pavetta hongkongensis* were displayed conspicuously within the construction site.
- 2.3.6 No tree damage was observed and recorded. All trees were protected with tree tags and bright colour signage.

Landscape and Compensatory Planting

2.3.7 Although no trees will need to be felled according to the final completed alignment of the flexible barriers, landscape and compensatory planting have been carried out by the Contractor in accordance with the approved Landscape and Compensatory Planting Plan. This included hydroseeding, planting of shrubs and climbers as well as planting of 75 nos. of shade-tolerant native trees.

Observation

2.3.8 No observation was recorded during the site inspection and audit in the reporting month. No tree felling by Contractor was recorded.

2.4 Summary of Complaints and Prosecutions

- 2.4.1 No environmental complaint was recorded in the reporting period.
- 2.4.2 No prosecution was recorded in the reporting month.
- 2.4.3 The update statistical summary of complaint is presented in **Table 2-2**.

	Table 2-2-3	tatus of comple	annts ann 110sec	ution		
Reporting Period	Complaint	Statistics	Area of Concern	Validity	Status	
Reporting Period	Number Cumulative		Alea of concern	Valuaty	Status	
1 st April 2016 –	0	0				
20th Ameril 2016	0	0	-	-	-	

Table 2-2 Status of Complaints and Prosecution

3. CONCLUSIONS

30th April 2016

- 3.1.1 During the reporting period, construction of masonry finish for the maintenance access was conducted and completed. The Contractor has provided landscape and compensatory planting in accordance with the approved Landscape and Compensatory Planting Plan.
- 3.1.2 No environmental complaint was received in the reporting month. No summons or prosecution related to the environmental issues was made against the Project in the reporting month.
- 3.1.3 As all construction works have been completed and all required mitigation measures in

accordance with the EP-448/2013 have been implemented by the Contractor, this monthly monitoring report will be the last report and further site audit is considered not necessary.

4. **RECOMMENDATIONS**

4.1.1 A Final Report will be prepared to summarize the environmental audits during the construction phase of the Project.

End of Text

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Photos

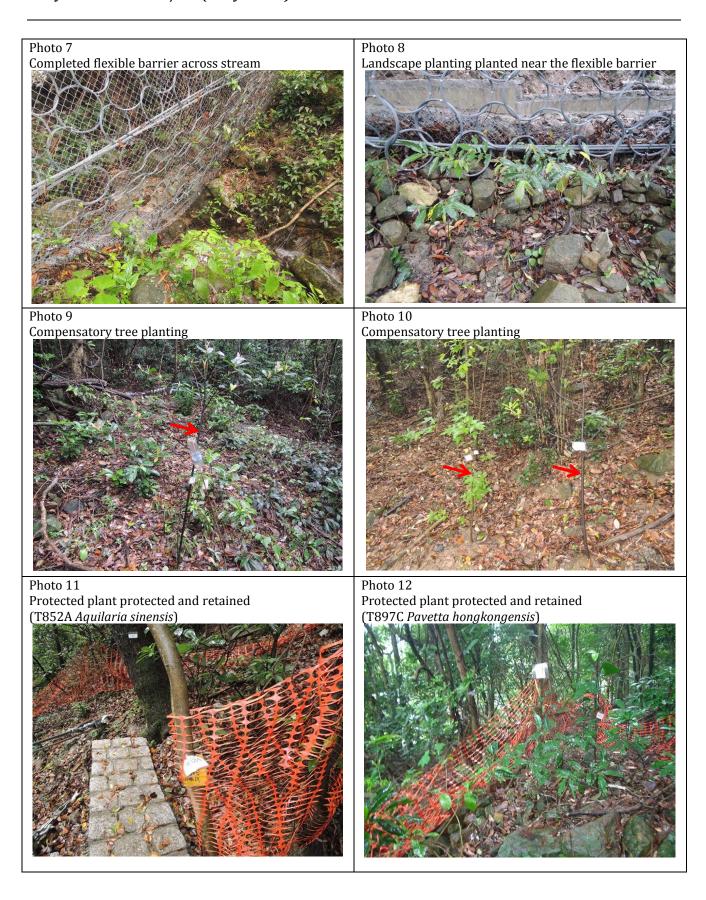
CEDD Contract No. GE/2013/06 Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H)

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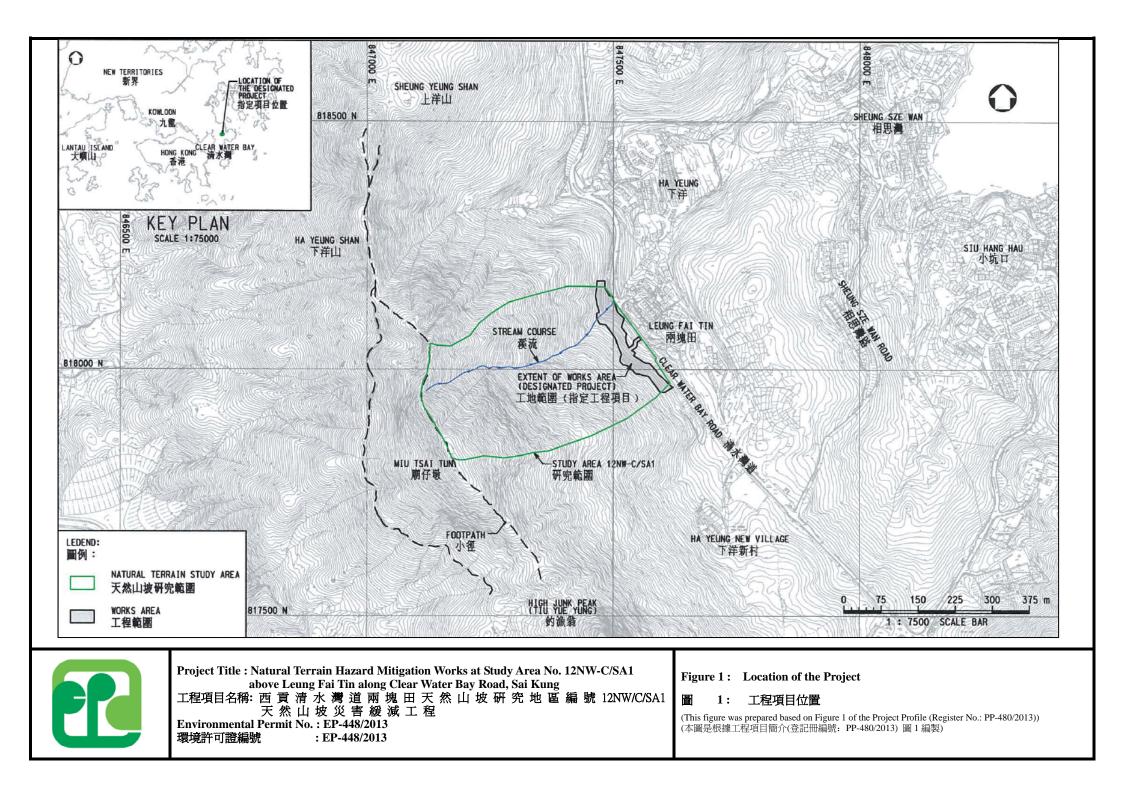
CEDD Contract No. GE/2013/06 Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H)

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IEC Monthly Audit Report No. 27 182663/B&V/027/Issue 1

Figure



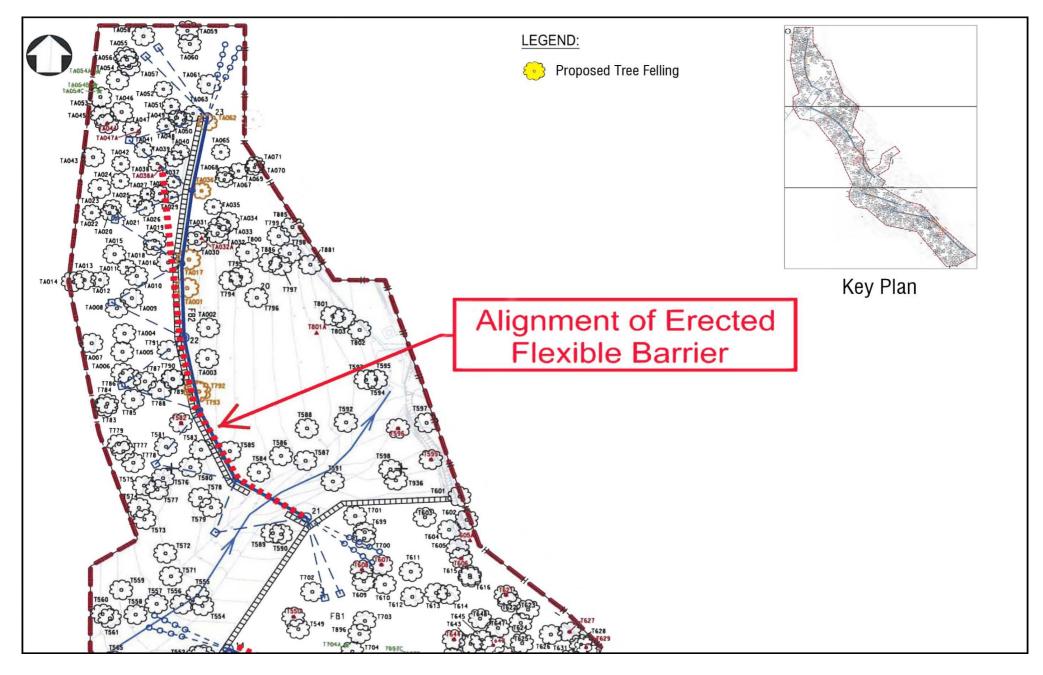


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 27 April 2016 (Sheet 1 of 3)

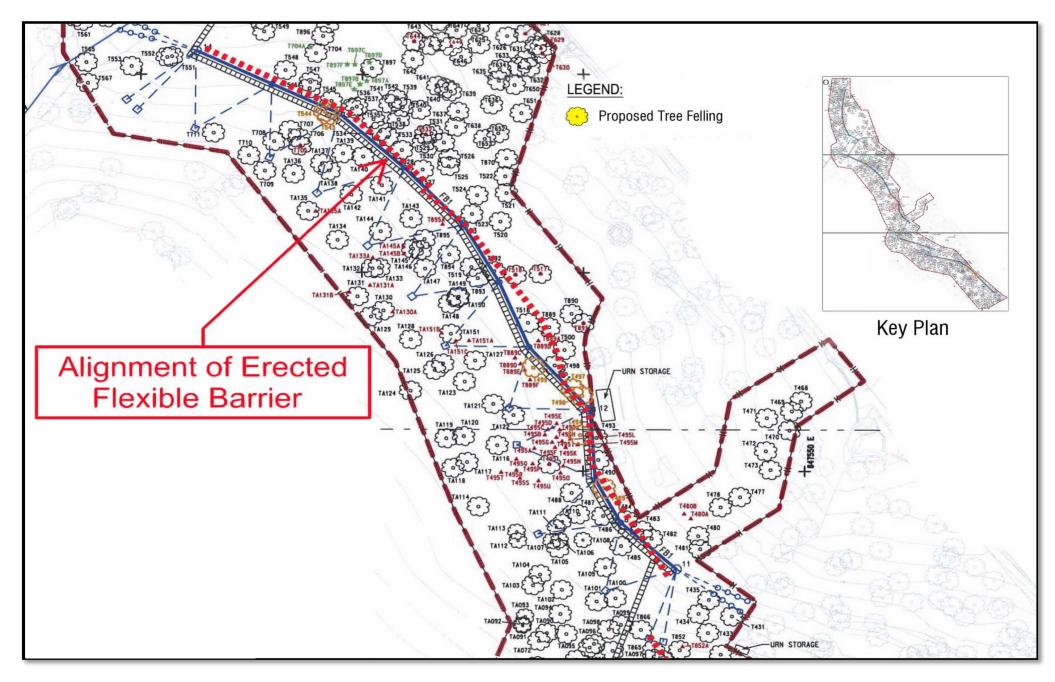


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 27 April 2016 (Sheet 2 of 3)

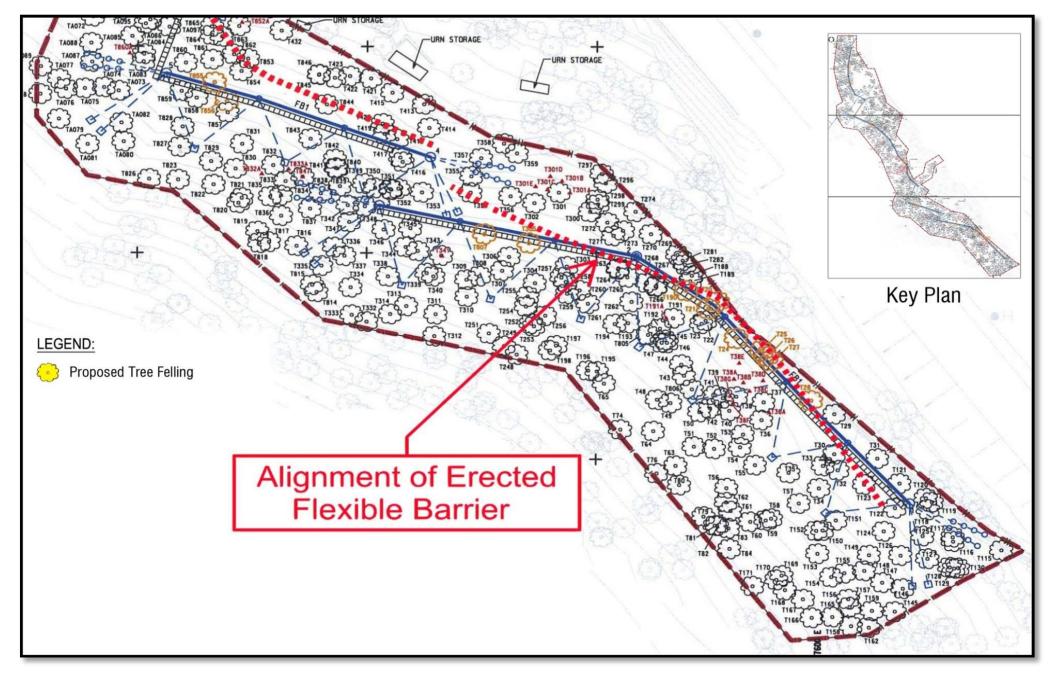
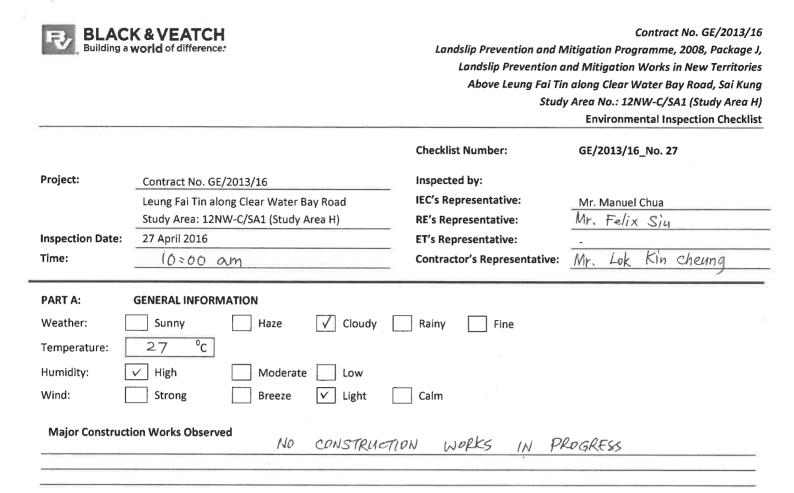


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 27 April 2016 (Sheet 3 of 3)

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Appendix A Environmental Inspection Checklist



PART B	SITE AUDIT					
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
Section	1: Construction Noise					
1.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	\checkmark				
1.02	Is silenced equipment adopted?	\checkmark				
1.03	Is idle equipment turned off or throttled down?	\checkmark				
1.04	Are plant and equipment kept to a minimum?	\checkmark				
1.05	Is parallel use of noisy equipment / machinery avoided?	\checkmark				
1.06	Are all plant and equipment well maintained and in good condition?	\checkmark				
1.07	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	\checkmark				
1.08	Are hand held breakers fitted with valid noise emission labels during operation?	\checkmark				
1.09	Are air compressors fitted with valid noise emission labels during operation?	\checkmark				
1.10	Are flaps and panels of mechanical equipment closed during operation?	\checkmark				
1.11	Are Construction Noise Permit(s) applied for general construction works during restricted hours?	\checkmark				
1.12	Are valid Construction Noise Permit(s) displayed on the construction site?	\checkmark				



Note:

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Note:

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course.

mobile toilet.

License collector should be employed for handling the sewage of

Contract No. GE/2013/16

Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H) **Environmental Inspection Checklist**

Checklist Number: GE/2013/16_No. 27 N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Photo/ N/A Yes N/C Follow Up: Observations requiring follow-Up actions Up Remarks Section 2: Air Quality \square П { | Are the excavated materials sprayed with water during handling? Are stockpiles of dusty materials sprayed with water, covered or ∇ placed in sheltered areas? Is the exposed earth properly treated within six months after the \square last construction activities? Is the surface where any drilling, cutting, polishing or breaking $\overline{\mathbf{V}}$ operation continuously sprayed with water? Are de-bagging, batching and mixing processes carried out in ∇ sheltered areas during the use of bagged cement? Are there any fencing provided along the site boundary, which $\overline{\mathbf{N}}$ adjoins areas accessible to the public? N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Photo/ N/A Yes N/C Follow Up: Observations requiring follow-Up actions Up Remarks Section 3: Water Quality $\overline{\mathbf{V}}$ \square Is the discharge of turbid water avoided? Are there proper desilting facilities in the drainage systems to $\overline{\mathbf{V}}$ reduce SS levels in effluent? Are there channels, sandbags or bunds to direct surface run-off to $\overline{\mathbf{V}}$ \square sedimentation tanks? Are there any perimeter channels provided at site boundaries to $\overline{\mathbf{A}}$ intercept storm runoff from crossing the site? Are the maintenance access and/or anchor built within the $\overline{\mathbf{V}}$ stream? ∇ Are temporary exposed slopes properly covered? $\overline{\mathbf{V}}$ П Are earthworks final surfaces well compacted or protected? \checkmark \square Are there any procedures and equipment for rainstorm protection? Are the vehicle and plant servicing areas paved and located within \square roofed areas? ∇ Is the oil leakage or spillage avoided? Are there any measures to collect spilt cement and concrete $\overline{\mathbf{V}}$ washings during concreting works? \square Are the oil interceptors/grease traps maintained properly? Concreting wastes water should be neutralized below the pH $\sqrt{}$ Action Levels before discharge. Mobile toilets should provide on-site and located away the stream ∇

 ∇



Contract No. GE/2013/16

Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H)

Environmental Inspection Checklist

		Checklist M	Number:		GE/2013,	/16_No. 27
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
Sectio	n 4: Ecology					h
4.01	Are the maintenance access and/or anchor built within the stream?	\square				
4.02	Is there any opening (at least 0.5m allowed) between the stream bed and the bottom of the flexible barrier provide?		$\overline{\mathbf{V}}$			
4.03	Are protected plants species are retained in-situ?		\checkmark			
4.04	Is there any tree pruning to damage the preserved trees?	\checkmark				
4.05	Are all Aquilaria sinensis (85 nos.) and Pavetta hongkongensis (10 nos.) retained in-situ and fenced off?		\checkmark			
4.06	Are there any tagged provided at retained in-situ trees?		\checkmark			
4.07	Are all retained trees closed to the construction works providing protective wrapping properly to minimize the damage?	\checkmark				
4.08	Are only 25 nos. of non-protected trees are felled?	\checkmark				
4.09	Are any native light standard trees provided as compensatory planting (ratio 1:3)?		\checkmark			
4.10	Are the proposed compensatory trees planting native and shade-tolerant trees species according to the recommendation of Project Profile?		\checkmark			
4.11	Is the positioning the alignment has minimum 1.5m in radius away from the alignment?		\checkmark			
4.12	Any induction training course to all site personnel (both supervision staff and workers) to brief the persevered trees location and importance?	\checkmark				
4.13	Any adjustment of the foundation of flexible barriers and staircases to avoid the damage of root systems of existing trees?	\checkmark				
4.14	Is there any re-vegetation area to compensate the temporary loss of 200m ² (due to temporary access) understorey area?		\checkmark			
4.15	Is there any re-vegetation area to compensate the permanent loss of 200m ² (due to maintenance access and anchor) understorey area?		\checkmark			
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
Sectio	n 5: Landscape and Visual					
5.01	Is the landscape design including the compensatory planting follow GEO Publication No. 1/2011?					
5.02	Is there any erecting of hoarding to minimize the unsightly construction activities?	\checkmark				
5.03	Is the hoarding with decorative panels with patterns of vegetation mature trees below the hoardings for nature screening) to minimize the visual impact?	\checkmark				
5.04	Any utilization of existing trees located in fornt of hte flexible barrier as natural screening?		\checkmark			ĩ
5.05	Any provision Pit-planting of native light standard trees and planting of climbers in front of the fence to provided screening effect?		\checkmark			
5.06	Is the dark colour of the flexible barrier used?		\checkmark			



Contract No. GE/2013/16

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Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung

Study Area No.: 12NW-C/SA1 (Study Area H)

Environmental Inspection Checklist

		Checklist M	Number:		GE/2013/	′16_No. 27
5.07	Are the concrete footing of the anchor and the handrails along the maintenance access painted with sub-due colour as far as practical?		\checkmark			
5.08	Are the maintenance accesses apply masonry finished to blend with surroundings?		\checkmark			
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
Sectio	n 6: Waste Management					
6.01	Has the Waste Management Plan prepared according to ETWB TC(W) No. 19/2005 and submit to Engineer?	\checkmark				
6.02	Are receptacles available for general refuse collection?	\checkmark				
6.03	Is general refuse sorting or recycling implemented?	\checkmark				
6.04	Is general refuse disposed of properly and regularly?	\checkmark				
6.05	Is the Contractor registered as a chemical waste producer?	\checkmark				
6.06	Are the chemical waste containers properly labelled?	\checkmark				
6.07	Are the chemical wastes stored in proper storage areas?	\checkmark				
6.08	Is the chemical waste storage area properly labelled?	\checkmark				
6.09	Is the chemical waste storage area used for storage of chemical waste only?	1/				*******
6.10	Are incompatible chemical wastes stored in different areas?	\checkmark				
6.11	Are the chemical wastes disposed of by licensed collectors?	\checkmark				
6.12	Are trip tickets for chemical wastes disposal available for inspection?					
6.13	Are chemical/fuel storage areas bunded?	\checkmark				
6.14	Are designated areas identified for storage and sorting of construction wastes?	\checkmark				
6.15	Are construction wastes sorted (inert and non-inert) on site?	\checkmark				
6.16	Are construction wastes reused?	\checkmark				
6.17	Are construction wastes disposed of properly?	\checkmark				
6.18	Are site hoardings and signboards made of durable materials instead of timber?	\checkmark				
6.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	\checkmark				
6.20	Are appropriate procedures followed if contaminated material exists?	\checkmark				
6.21	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?					
6.22	Site cleanliness and appropriate waste management training had provided for the site workers.	\checkmark				



Contract No. GE/2013/16 Landslip Prevention and Mitigation Programme, 2008, Package J, Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung Study Area No.: 12NW-C/SA1 (Study Area H) Environmental Inspection Checklist

		Checklist N	umber:		GE/2013,	/16_No. 27
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
Sectio	n 7: Licence					
7.01	Is relevant Environmental Permit posted at all vehicle site entrances/exits?		$\overline{\checkmark}$			
7.02	Any N/C of EP condition?	\checkmark				
-Sectio	n 8: Follow-up of the previous monthly environmental audit on date			(Checklist N	lo. GE/20 :	13/16_No. }
Note:	N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Up: Observations requiring follow-Up actions	N/A	Yes	Follow Up	N/C	Photo/ Remarks
8.01	Is the situation in item improved / rectified?					
8.02	Is the situation in item improved / rectified?					
8.03	le the situation in item increased (section 1)					
	Is the situation in item improved / rectified?					
8.04	Is the situation in item improved / rectified?					
8.04 8.05						



Checklist Number:

GE/2013/16_No. 27

Remarks / Observations:

	_	AU	CONSTR	U CTLON	WORK	CS	Comi	PLETED	3		
		THE	CONTRAC	STOR	WILL	REMOV	'E	ALL	CONSTR	MCTUON	WAS7E
FROM	SITE	AND	ARRAN	GE P	Y FINA	r s	ME	INSPE	CTUDH	WITH	TWE
			NEER. NSATED			F FIN	IAL	VER	IFICATI	ON OF	TWE
			TREES	,) - Co	BE	FEU		BASED	DW
Signatu IEC's Re	ure: epresent	ative	RE's	representat	tive	ET's re	epresent	tative		Contractor's	representative

Name: Mr. Manuel Chua

Date: 27 Arpil 2016

Date: 27 April 2016

Name: Felix SZU

Name: Lok Kin Chenny

Date: 27 April 2016

Name:

Date: