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. 24 January 2016

182663/B&V/024/Issue 1

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Amendment Record IEC Monthly Audit Report No.24 (January 2016)			CEDD Contract No. GE/2013/06 Landslip Prevention and Mitigation Works in New Territories Above Leung Fai Tin along Clear Water Bay Road, Sai Kung	No: 182663/B&V/024/ Issue 1 Prepared by:		
			Study Area: 12/NW-C/SA1 (Study Area H) Client: Kwan On Construction Co. Ltd	B&V Initials: MC Date: 2nd February 2016		
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Appendix A Environmental Inspection Checklist

	Name	Signature	Date
Prepared	Manuel CHUA	fler	2 February 2016
Checked	Benjamin YEUNG	3-4-7	2 February 2016
Reviewed / Authorised	Norman SONG	no Africa	2 February 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 **January 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.

Table 2-1 Status of Environmental Permit

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		

2.2 Progress of the Construction Works

2.2.1 The Project has been commenced on 15 January 2014. During the reporting period, removal of construction materials and waste was conducted. No construction works were observed at the time of audit. 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.
- Joint site audit was carried out with CHMHC and KOCCL on 26 January 2016. Photos 1 to
 2 show the construction work progress within permitted works areas. Landscaping works (Photos 3 to 4) were carried out in accordance with the approved Landscape and Compensatory Planting Plan.

Potential Tree Felling

2.3.3 Trees along the temporary works area were inspected. No tree damage was observed. 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 and the number of individuals are reduced to 3. All trees are in the approved list of trees to be felled, native and non-protected. **Table 2-2** shows the potential trees needed to be felled.

Table 2-2 Potential Trees to be Felled

Tree I.D.	Species	Remarks
T489	Cinnamomum parthenoxylon	Subject to confirmation
T792	Meliosma rigida	Subject to confirmation
T793	Diospyros momsiana	Subject to confirmation

Aquilaria sinensis & Pavetta hongkongensis

- 2.3.5 Bright colour tree protection signage was provided at protective trees (**Photo 5**). 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 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. Some planted trees were found dead / collapsed (**Photo 6**). The Contractor was reminded to regularly visit the site to ensure the planted trees, shrubs and climbers are in healthy conditions as well as to replant the dead /collapsed compensatory trees. Further verification will be conducted in the next site audit.

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.

Reminder

- 2.3.9 It is reminded that the Contractor shall ensure construction activities shall fully comply with the environmental permit conditions.
- 2.3.10 It is reminded that the Contractor shall provide sufficient induction training to all site personnel (both supervision staff and workers) in order to brief them on tree preservation including the locations of the *Aquilaria sinensis* and *Pavetta hongkongensis* individuals and their importance. The resident site supervisory staff shall closely monitor the conditions of the *Aquilaria sinensis* and *Pavetta hongkongensis* individuals during the construction phase.
- 2.3.11 As stated in the Project Profile, majority of the excavation works arises from the

construction of the flexible barrier and the maintenance staircase. The Contractor shall contain within the Works Area all surface runoff generated from excavation works and dust control mainly. Any trade effluent, foul, contaminated, cooling or hot water shall not be discharged into any public sewers, stormwater drains, channels, stream courses or the sea. Avoid excavation works during rainy season as far as practicable. In addition, good site practice and management to control site runoff are recommended to reduce adverse impacts.

2.3.12 Although no construction works is in progress, the Contractor was reminded to maintain the site in a clean and tidy condition and to inspect the site at regular interval. The Contractor was reminded to remove some construction waste found within the site.

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 2-3**.

Table 2-3 Status of Complaints and Prosecution

Donarting Daried	Complaint	Statistics	Area of Congorn	Validity	Status	
Reporting Period	Number	Cumulative	Area of Concern	Validity		
1 st January 2016 – 31 st January 2016	0	0	-	-	-	

3. CONCLUSIONS

- 3.1.1 During the reporting period, removal of site hoardings were carried out and completed. The Contractor was reminded to provide protective measures to all *Aquilaria sinensis* (生 沉香) and *Pavetta hongkongensis* (香港大沙葉) and retained in-situ. No follow-up action is required.
- 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.

4. **RECOMMENDATIONS**

4.1.1 The Contractor was reminded to implement the relevant mitigation measures as stated in the Environmental Permit and the Contract to prevent any non-compliance throughout the construction period.

Photos

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Photo 1
Temporary works area within the project boundary

Photo 2
Temporary works area within the project boundary



Photo 3 Landscape plantings were planted near the flexible barriers



Photo 4 Compensatory tree plantings were provided



Photo 5 Protected plants were fenced off



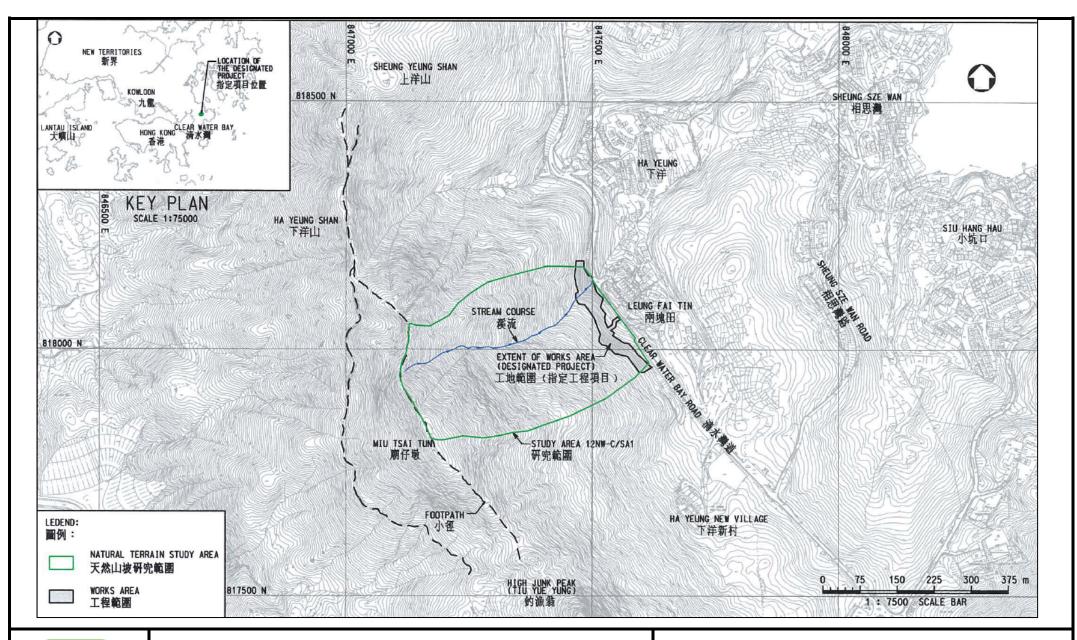
Photo 6
Contractor was reminded to replant the dead / collapsed compensatory trees



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Figure

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Project Title : Natural Terrain Hazard Mitigation Works at Study Area No. 12NW-C/SA1 above Leung Fai Tin along Clear Water Bay Road, Sai Kung

工程項目名稱: 西 貢 清 水 灣 道 兩 塊 田 天 然 山 坡 研 究 地 區 編 號 12NW/C/SA1

天然山坡災害緩減工程

Environmental Permit No.: EP-448/2013 環境許可證編號: EP-448/2013 Figure 1: Location of the Project

圖 1: 工程項目位置

(This figure was prepared based on Figure 1 of the Project Profile (Register No.: PP-480/2013)) (本圖是根據工程項目簡介(登記冊編號: PP-480/2013) 圖 1 編製)

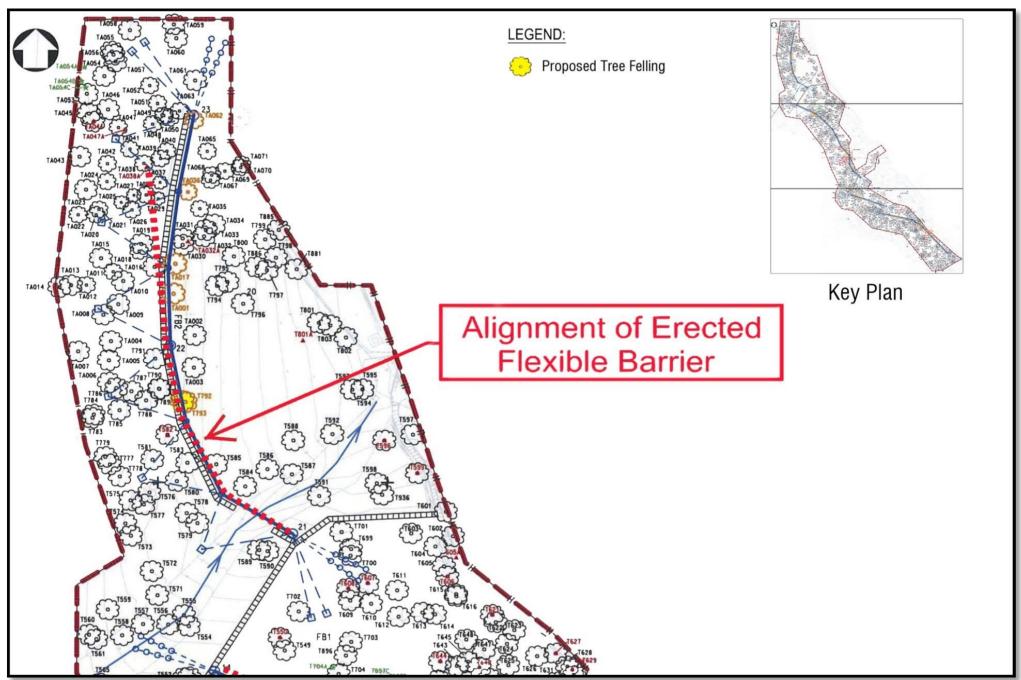


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 26 January 2016 (Sheet 1 of 3)

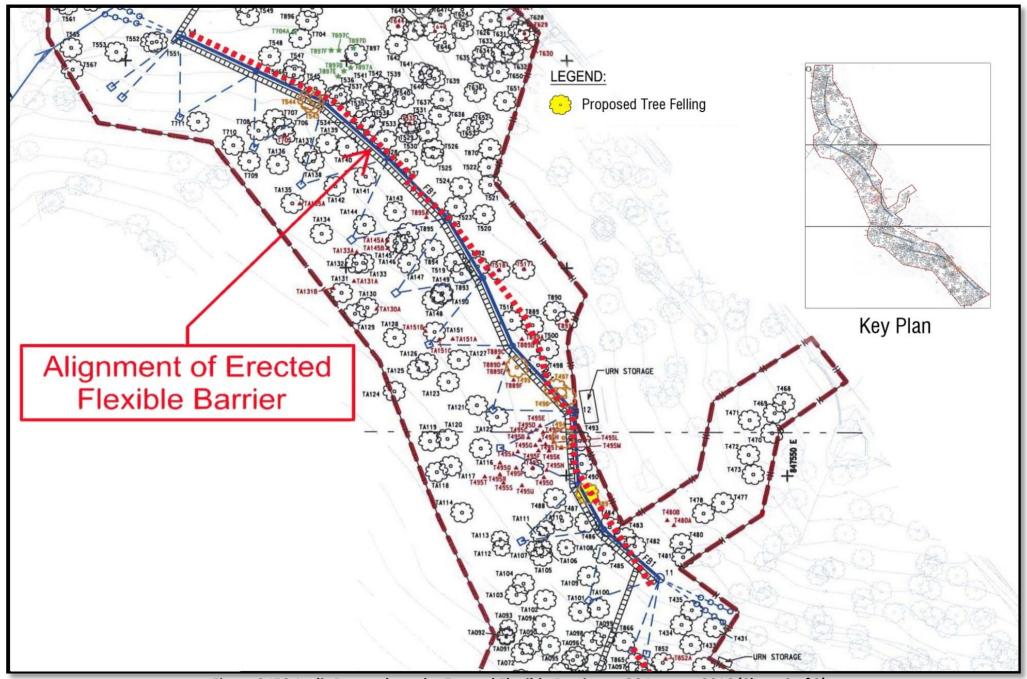


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 26 January 2016 (Sheet 2 of 3)

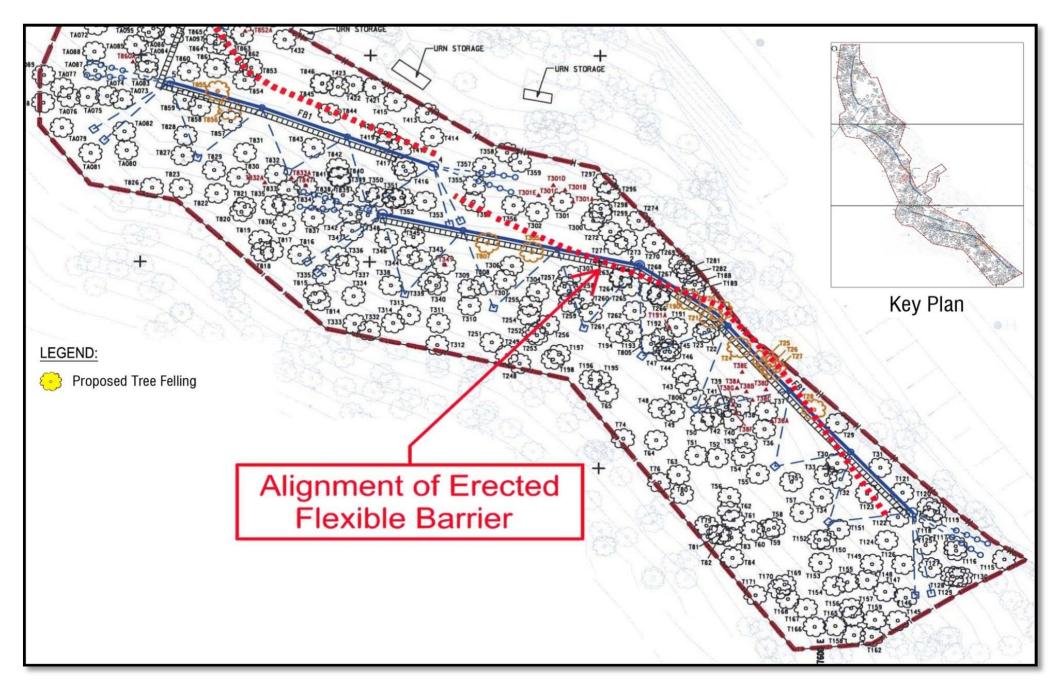


Figure 2 IEC Audit Route along the Erected Flexible Barrier on 26 January 2016 (Sheet 3 of 3)

Appendix A Environmental Inspection Checklist

February 2016 Black &Veatch



Environmental Inspection Checklist

				:1		Checklist N	umber:		GE/2013	3/16_No. 24
Project Inspect Time:	: ion Date:	2.01	ong Clear Water Ba IW-C/SA1 (Study A	•				Mr. Manuel Chua Mr. Felix Siu - Mr. Lok Kin Cheung		
PART A: GENERAL INFORMATION Weather: Sunny Haze V Cloudy Rainy Fine Temperature: 10 °C Humidity: High V Moderate Low Wind: Strong Breeze V Light Calm Major Construction Works Observed NO WORKS IN PROGRESS										
PART B		SITE AUDIT	pliance; N/C : Non-Co	mpliance:				Follow		Photo/
Note:	Follow Up:	Observations requir				N/A	Yes	Up	N/C	Remarks
		ction Noise equipment and act	tivities nositioned	as far as practi	cable	/				
1.01		sensitive receivers		as fair as practi	cubic					-
1.02	Is silenced	d equipment adopt	:ed?							7
1.03	Is idle equ	ipment turned off	or throttled down	1?						13
1.04	Are plant	and equipment ke	pt to a minimum?							
1.05	Is parallel	use of noisy equip	ment / machinery	avoided?						
1.06	Are all pla	nt and equipment	well maintained a	nd in good con	dition?	\checkmark				5 <u>6</u>
1.07		barriers or enclosu ion activities cause			ers?	\checkmark				
1.08	Are hand operation	held breakers fitter?	d with valid noise	emission labels	during	· 🗹				
1.09	Are air co	mpressors fitted w ?	ith valid noise emi	ission labels du	ring	\square				
1.10	Are flaps a operation	and panels of mech ?	nanical equipment	closed during		\square				
1.11		ruction Noise Perm ing restricted hour		eneral construc	ction	Ø				
1.12	Are valid (Construction Noise	Permit(s) displaye	ed on the const	ruction					



Environmental Inspection Checklist

		Checklist N	umber:		GE/2013/	16_No. 24
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 2: Air Quality	,				
2.01	Are the excavated materials sprayed with water during handling?	abla				
2.02	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	\square				
2.03	Is the exposed earth properly treated within six months after the last construction activities?	V				
2.04	Is the surface where any drilling, cutting, polishing or breaking operation continuously sprayed with water?	\square				
2.05	Are de-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement?	\square				
2.06	Are there any fencing provided along the site boundary, which adjoins areas accessible to the public?	Ø				
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 3: Water Quality					
3.01	Is the discharge of turbid water avoided?	\square				
3.02	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	\square				
3.03	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	\square				2
3.04	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	\square				
3.05	Are the maintenance access and/or anchor built within the stream?					
3.06	Are temporary exposed slopes properly covered?					
3.08	Are earthworks final surfaces well compacted or protected?					
3.09	Are there any procedures and equipment for rainstorm protection?	V				
3.10	Are the vehicle and plant servicing areas paved and located within roofed areas?					
3.11	Is the oil leakage or spillage avoided?					
3.12	Are there any measures to collect spilt cement and concrete washings during concreting works?					
3.13	Are the oil interceptors/grease traps maintained properly?	abla				
3.14	Concreting wastes water should be neutralized below the pH Action Levels before discharge.	V				5
3.15	Mobile toilets should provide on-site and located away the stream course.	∇				
3.16	License collector should be employed for handling the sewage of mobile toilet.	V				



Environmental Inspection Checklist Checklist Number: GE/2013/16 No. 24 N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; **Follow** Photo/ Note: N/A Yes N/C Follow Up: Observations requiring follow-Up actions Up Remarks Section 4: Ecology Are the maintenance access and/or anchor built within the 4.01 stream? is there any opening (at least 0.5m allowed) between the stream \square 4.02 bed and the bottom of the flexible barrier provide? \square 4.03 Are protected plants species are retained in-situ? 4.04 Is there any tree pruning to damage the preserved trees? Are all Aquilaria sinensis (85 nos.) and Pavetta hongkongensis (10 4.05 nos.) retained in-situ and fenced off? 4.06 Are there any tagged provided at retained in-situ trees? Are all retained trees closed to the construction works providing V 4.07 protective wrapping properly to minimize the damage? V Are only 25 nos. of non-protected trees are felled? 4.08 Are any native light standard trees provided as compensatory \square 4.09 planting (ratio 1:3)? Are the proposed compensatory trees planting native and W 4.10 shade-tolerant trees species according to the recommendation of Project Profile? Is the positioning the alignment has minimum 1.5m in radius away И 4.11 from the alignment? Any induction training course to all site personnel (both 4.12 supervision staff and workers) to brief the persevered trees location and importance? Any adjustment of the foundation of flexible barriers and staircases И 4.13 to avoid the damage of root systems of existing trees? Is there any re-vegetation area to compensate the temporary loss of 200m² (due to temporary access) understorey area? Is there any re-vegetation area to compensate the permanent loss Πł 4.15 of 200m² (due to maintenance access and anchor) understorey area? N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; Follow Photo/ Note: N/A Yes N/C Follow Up: Observations requiring follow-Up actions Remarks Section 5: Landscape and Visual Is the landscape design including the compensatory planting follow M 5.01 GEO Publication No. 1/2011? Is there any erecting of hoarding to minimize the unsightly 5.02 construction activities? Is the hoarding with decorative panels with patterns of vegetation \square 5.03 mature trees below the hoardings for nature screening) to minimize the visual impact? Any utilization of existing trees located in fornt of hte flexible 5.04 barrier as natural screening? Any provision Pit-planting of native light standard trees and 5.05 planting of climbers in front of the fence to provided screening effect? ∇ 5.06 Is the dark colour of the flexible barrier used?



Environmental Inspection Checklist

Checklist Number: GE/2013/16_No. 24 Are the concrete footing of the anchor and the handrails along the V 5.07 maintenance access painted with sub-due colour as far as practical? Are the maintenance accesses apply masonry finished to blend CONSTRUCTED 5.08 with surroundings? Follow Photo/ N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance; N/A Yes N/C Note: Remarks Up Follow Up: Observations requiring follow-Up actions Section 6: Waste Management Has the Waste Management Plan prepared according to ETWB M 6.01 TC(W) No. 19/2005 and submit to Engineer? М Are receptacles available for general refuse collection? 6.02 Is general refuse sorting or recycling implemented? 6.03 Is general refuse disposed of properly and regularly? 6.04 Is the Contractor registered as a chemical waste producer? 6.05 M 6.06 Are the chemical waste containers properly labelled? \square Are the chemical wastes stored in proper storage areas? 6.07 \square Is the chemical waste storage area properly labelled? 6.08 Is the chemical waste storage area used for storage of chemical M 6.09 waste only? M Are incompatible chemical wastes stored in different areas? 6.10 V Are the chemical wastes disposed of by licensed collectors? 6.11 Are trip tickets for chemical wastes disposal available for V 6.12 inspection? ablaAre chemical/fuel storage areas bunded? 6.13 Are designated areas identified for storage and sorting of V 6.14 construction wastes? М Are construction wastes sorted (inert and non-inert) on site? 6.15 M 6.16 Are construction wastes reused? V Are construction wastes disposed of properly? 6.17 Are site hoardings and signboards made of durable materials V 6.18 instead of timber? Is trip ticket system implemented for the disposal of construction 6.19 wastes and records available for inspection? Are appropriate procedures followed if contaminated material 6.20 exists? Is relevant license/ permit for disposal of construction waste or 6.21 excavated materials available for inspection? Site cleanliness and appropriate waste management training had 6.22 provided for the site workers.



		Checklist I	Number:		GE/2013/	16_No. 24
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?					
7.02	Any N/C of EP condition?	V				
	n 8: Follow-up of the previous monthly environmental audit on date N/A: Not Applicable; Yes: Compliance; N/C: Non-Compliance;			(Checklist 1	No. GE/201	3/16_No.)
Note:	Follow Up: Observations requiring follow-Up actions	N/A	Yes	Up	N/C	Remarks
8.01	Is the situation in item improved / rectified?					
8.02	Is the situation in item improved / rectified?					
8.03	Is the situation in item improved / rectified?					
8.04	Is the situation in item improved / rectified?					
8.05	Is the situation in item improved / rectified?					



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. 24

Remarks / Observations:			
- TWE	CONTRACTOR IS	REMINDED TO REMOV	E SOME CONSTRUCTION
WAST	ie Found on st	E . CONTRACTOR IS	REMINDED TO INSPECT
TWG	SITE AT REGULA	R INTERVAL AND TO	MAINTAIN THE STRE
(M)	LEAN AND TIDY	CONDITION .	
- THE		REMINDED TO EX	
TREES	AND SHRUBS	ARE IN GOOD HEALTD OULD BE REPLANTED	1 CONDITION .
DEAD	/ COLLAPSED TREES	OULD BE REPLANTED	О
Signature: IEC's Representative Name: Mr. Manuel Chua	RE's representative Name: Felix STM KZ	ET's representative	Name: Lok the Cheming
Date: 26 January 2016	Date: 26 January 2016	Date:	Date: 26 January 2016