

JOB NO.: TCS00491/09

DSD CONTRACT No.: DC/2009/08

CONSTRUCTION OF YUEN LONG SOUTH BRANCH SEWERS AND EXPANSION OF HA TSUEN SEWAGE PUMPING STATION

THE TWENTY-FIRST RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR OCTOBER 2011 (NO.21)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) COMPANY LIMITED

Quality Index

Date Reference No.		Prepared By	Certified By	
7 Mar 2012	TCS00491/09/600/R00341v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)	
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10 September 2012

By E-mail

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Hong Kong.

For attention of: Mr. T. W. Tam

Dear Mr. Tam,

Contract No.: DC/2009/08

Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage

Pumping Station

Monthly EM&A Report for Designated Project, Landscape and Visual Impact Sections, October

2011 to January 2012 - IEC Verification

With reference to ET's captioned Landscape and Visual Impact section of monthly EM&A reports for four reporting months, October 2011 to January 2012 inclusive (ET's ref.: TCS0491/09/600/R00341v1, TCS0491/09/600/R00342v1, TCS0491/09/600/R00343v1, and TCS0491/09/600/R00344v1, all dated 7 March 2012) received on 5 September 2012, we have no comment and hereby verify the captioned Landscape and Visual Impact section of monthly EM&A reports.

Should there be any queries, please feel free to contact us.

Yours sincerely,

F.C. TSANG

Independent Environmental Checker HYDER CONSULTING LIMITED

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 $DSD\ Contract\ No.\ DC/2009/08\ -\ Construction\ of\ Yuen\ Long\ South\ Branch\ Sewers\ and\ Expansion\ of\ Ha\ Tsuen\ Sewage\ Pumping\ Station$

The Twenty-First Results of Landscape and Visual Impact Monitoring for October 2011 (No.21)



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The Twenty-First Results of Landscape and Visual Impact Monitoring for October 2011 (No.21)



1. INTRODUCTION

- 1.01 This Results of Landscape and Visual Impact Monitoring (hereinafter "the LVIM Results") is part of the monthly EM&A report under DSD Contract No.: DC/2009/08 Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station: Results of Landscape and Visual Impact of Chapter 4 Impact Monitoring Results. The LVIM Results should therefore be read in conjunction with the corresponding monthly EM&A reports.
- 1.02 Pursuant to Chapter 6 Landscape and Visual of the EM&A Manual, EM&A for landscape and visual resources is considered to be a key aspect during both the construction and operational phases of the Project. The implementation and maintenance of landscape compensatory planting measures should therefore be checked to ensure that they are fully realized and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures.
- 1.03 Monitoring of the recommended implementation of the mitigation measures is required to be conducted throughout the construction phase of the Project.
- 1.04 As a member of the ET, the landscape architect is responsible for the implementation of landscape construction works and subsequent maintenance operations during the 12 month establishment period. The establishment works should be undertaken throughout the Contractor's one year maintenance period which will be within the first operational year of the Project.
- 1.05 All measures undertaken by both the Contractor and the Landscape Contractor during the construction phase and first year of the operational phase should be audited by the landscape architect on a regular basis to ensure compliance with the intended aims of the measures.
- 1.06 Site inspections should be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.
- 1.07 The LVIM Results has been prepared by the landscape architect and compiled by the ET upon receipt for submission to EPD after verification by the IEC.
- 1.08 To cater to closer compliance of the EM&A reporting with the EP requirements, it has been agreed among the RE, IEC and ET that The LVIM Results is submitted separately as a stand-alone submission.
- 1.09 This is the twenty-first (No. 21) LVIM Results, covering the construction period from 1 to 31 October 2011 (hereinafter "the Result Period").

2. LVIM RESULTS

2.01 The LVIM Results are presented in the site inspection checklist of the Result Period enclosed in Appendix A.

3. **RECOMMENDATIONS**

- 3.01 The trees at Ha Tsuen Pumping Station have been handed over to DSD since January 2011for management and monitoring thereafter.
- 3.02 Dead trees were found during the Results Period. In order to alleviate land scape and visual impacts under the Project, the tree manager is recommended to remove and replace the dead trees as appropriate.
- 3.03 Trees in poor condition were also observed during the Result Period. More frequent watering or fertilizing and even further investigation on the tree conditions may need to be undertaken by the tree manager to improve living conditions of those poor trees.



Appendix A

Site Inspection Checklist

Landscape and Visual Impact Assessment Site Inspection Checklist

Co	ontract No.:	DC/2009/08					
Co	ontract title:	Construction of Yuen Long South Sewer and Expansion	of Ha Ts	suen Sew	age Pumj	oing Station	
Co	ontractor:	China State Construction Engrg. (HK) Ltd.					
Lo	cation:	Ha Tsuen Sewage Pumping Station					
Ins	spection Date:	27-Oct-2011					
			S	Satisfacto	ry	Rectified	
			N/A	Yes	No	Yes No	Remarks
	General	The state of the s					
1.		g around site boundary properly			Ш		
2.	Keep well ma	intenance of hoarding			- Ш		Ř,
3.	All construction	on works are carried out within site boundary properly	7	V			
4	Carry out the	initial tree survey prior to construction		\checkmark		/	
5	Provide tree la	abels according to tree survey records		\checkmark			
Co	mments:						
Sta	ndard hoarding	was erected and well maintained around the works area at	Ha Tsue	n Sewage	Pumpin	g Station (HTSPS	S).
All	trees were label	led as requirement.					
II.	Transplanting	Works					
1.	All transplanti specifications	ing works are carried out in accordance with the		\checkmark		V	
2.	The transplant establishment	ted trees are kept in regular inspection within the period		✓		/	
3.	The transplant	ted trees are kept in maintenance thoughout the establishm	nent perio	od as follo	owings:		
	(i) Watering		·				
	(ii) Weeding		\checkmark				
	(iii) Fertilising	9	✓				
	(iv) Littering		\checkmark				
	(v) Grass cutti	ing	\checkmark				
	(vi) Firming u	p	\checkmark				
	(vii) Pest cont	rol	\checkmark				
	(viii) Disease	control	V				
	(ix) Pruning		\checkmark				
	(x) Replaceme	ent	✓				
Con	mments:						
The	ere had total 73 i	nos. of transpalnted trees in Ha Tsuen Sewage Pumping St	ation due	to const	ruction w	orks under this c	ontract.
Wa	tering and weed	ing should be undertaking periodically.					
III.	Landscaping V	Vorks					
1.	All landscapin specifications	g works are carried out in accordance with the		\checkmark		I .	
2.	The landscapin	ng plants are kept in regular inspection within the period		\checkmark			
	14		2	atisfactor	v	Rectified	
			N/A	Yes	No	Yes No	Remarks
3.	The landscapi	ng plants are kept in maintenance thoughout the establishr				100 110	Remarks
٠.	(i) Watering	25 paints are kept in maintenance moughout the establish	nent peri		owings.		
	(1) Tratelling		1 1	1 1 1	1 1	1 150	

		Satisfacto	ry	Rectifie	:d	A MIC CONTRACTOR
	N/A	Yes	No	Yes N	0	Remarks
The landscaping plants are kept in maintenance thoughout the establishment.	lishment pe	riod as fo	llowings	:		
(i) Watering		\checkmark		/]	
(ii) Weeding		\checkmark		7		
(iii) Fertilising		✓		✓		
(iv) Littering		\checkmark		✓		
(v) Grass cutting		\checkmark		V]	
(vi) Firming up		✓		✓	J	
(vii) Pest control		✓		✓]	
(viii) Disease control		✓		✓]	
(ix) Pruning		\checkmark		✓		
(x) Replacement		\checkmark		✓]	
Comments:						
No landscaping works were carried out in the reporting month						
	2000000					**************************************
IV. Preservation and Protection of Trees	VIII TO THE TOTAL THE TOTAL TO THE TOTAL TOT					
All preserved trees are protected in accordance with the specification.	· []	\Box			7	
	» L					
2. All preserved trees are fenced off properly	✓					
 No construction activities are carried out in the protection zone of the preserved trees 	e 🗸]	
Comments:						
All retained trees were fenced off and protected properly within the works	area of the	site. DSD	is carryi	ng out the p	reservatio	n
and protection.						
Conclusion Generally, the overall conditions are normal in the transplanting and visual of hoarding was satisfactory. The trees which are at Ha Tsue Pumping Stat and monitoring in January2011.	3:					
Remarks			W			
During inspection it is noted that some of the trees transplanted are of low	survival rat	e. Some t	rees are i	now identifie	ed as dead	l trees
on site they should be removed to prevent any safety hazard of falling with	in the work	s area or	spreading	g pests & dis	ease to of	ther trees.
Signatures:						
Senior Landscape Architect (Name: David Bloxham MLI (UK Chartered))						









DC/2009/08 Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station

Up-dated on: 29 October 2011

Summary of Dead Transplanted Trees in Ha Tsuen Sewage Pumping Station

	Tree Species		Size				
Tree No.			Height (m)	Trunk Dia. (mm)	Spread (m)		
HA202	Melia azedarach	森樹	6	111	3		
HA203	Eucalyptus torelliana	毛葉桉	8	143	3		
HA216	Acacia auriculiformis	耳果相思	7	201	3		
HA226	Acacia auriculiformis	耳果相思	6	131	4		
HA227	Acacia auriculiformis	耳果相思	8	242	3		
HA245	Acacia confusa	台灣相思	7	137	3		
HA255	Acacia auriculiformis	耳果相思	8	201	3		
HA257	Acacia confusa	台灣相思	7	217	3		
HA265	Acacia auriculiformis	耳果相思	6	188	3		
HA273	Acacia auriculiformis	耳果相思	5	290	4		

Proposed species to replace dead transplanted trees:

- (1) Melaleuca quinquenervia 白千層 Trunk diameter 60 ~ 70mm
- (2) Bauhinia variegata 宮粉羊蹄甲 Trunk diameter 60 ~ 70mm