

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 ELEVENTH RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR DECEMBER 2010 (NO.11)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) COMPANY LIMITED

Quality Index

	Date	Reference No.	Prepared By	Certified By			
17 Oct 2011		TCS00491/09/600/R00292v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)			
			mm h				

Version	Date	Description
1	17 Oct 2011	First submission

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27 October 2011

By Post

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Your Ref: Our Ref:

EB000586-F/THW11-2558

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, July 2010 to March 2011 – IEC Verification

With reference to ET's captioned Landscape and Visual Impact section of monthly EM&A reports for nine reporting months, July 2010 to March 2011 inclusive (ET's ref.: TCS00491/09/600/R0287v1, TCS00491/09/600/R0288v1, TCS00491/09/600/R0289v1, TCS00491/09/600/R0291v1, TCS00491/09/600/R0292v1, TCS00491/09/600/R0295v1, TCS00491/09/600/R0296v1 and TCS00491/09/600/R0297v1, all dated 17 October 2011) received on 26 October 2011, 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 our William Law on 2911 2511.

Yours sincerely

F.C. TSANG

Independent Environmental Checker HYDER CONSULTING LIMITED

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The Eleventh Results of Landscape and Visual Impact Monitoring for December 2010 (No.11)



TABLE OF CONTENTS

1.	INTRODUCTION	1
2.	CONTENT OF THE LVIM RESULTS	1

APPENDIX A SITE INSPECTION CHECKLIST

The Eleventh Results of Landscape and Visual Impact Monitoring for December 2010 (No.11)



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 eleventhth (No. 11) LVIM Results, covering the construction period from 1 to 31 December 2010 (hereinafter "the Result Period").

CONTENT OF THE LVIM RESULTS

- 2.01 This LVIM Results contains the site inspection checklist for the Result Period, where landscape and visual impact monitoring results are presented and where necessary, the associated recommendations are included.
- 2.02 The site inspection checklist is enclosed in *Appendix A*.



Appendix A

Site Inspection Checklist

Landscape and Visual Impact Assessment Site Inspection Checklist

Contract No.:		DC/2009/08							
Contract title:		Construction of Yuen Long South Sewer and Expansion	of Ha Ts	suen Sew	age Pum	ping Station			
Cor	ntractor:	China State Construction Engrg. (HK) Ltd.							
Loc	cation:	Ha Tsuen Sewage Pumping Station							
Inspection Date:		15-Dec-2010							
			S	atisfacto	ry	Rectified			
			N/A	Yes	No	Yes No	Remarks		
I. C	General								
1.	Erect hoarding	g around site boundary properly	Ш	\checkmark		✓ <u> </u>			
2.	Keep well ma	intenance of hoarding		1		\checkmark	**		
3.	All constructi	on works are carried out within site boundary properly		1		✓			
4	Carry out the	initial tree survey prior to construction		\checkmark					
5	Provide tree la	abels according to tree survey records		\checkmark					
Cor	mments:								
Sta	ndard hoarding	was erected and well maintained around the works area a	t Ha Tsue	n Sewag	e Pumpin	g Station (HTSPS).		
All	trees were labe	lled as requirement.							
II.	Transplanting	Works				Y	w w		
1.	All transplant specifications	ing works are carried out in accordance with the		\checkmark		✓			
2.	. The transplanted trees are kept in regular inspection within the establishment period						Item 1		
3.	The transplan	ted trees are kept in maintenance thoughout the estanlish	ment peri	od as fol	lowings:				
	(i) Watering			\checkmark		V			
	(ii) Weeding			\checkmark					
	(iii) Fertilising	g	✓						
	(iv) Littering			\checkmark		V			
	(v) Grass cutt	ing		\checkmark		✓			
	(vi) Firming u	ıp		\checkmark		\checkmark			
	(vii) Pest cont	trol	\checkmark						
	(viii) Disease	control		\checkmark					
	(ix) Pruning			\checkmark		\checkmark			
	(x) Replaceme	ent	\checkmark						
Con	Comments:								
The	There had total 73 nos. of transpalnted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.								
Wa	tering and weed	ling should be undertaking periodically.							
III.	. Landscaping	Works							
1.	All landscapin	ng works are carried out in accordance with the		\checkmark					
2.	The landscapi	ing plants are kept in regular inspection within the period		\checkmark		V			

Landscape and Visual Impact Assessment Site Inspection Checklist

					S	Satisfactory		Rectified		
					N/A	Yes	No	Yes	No	Remarks
3.	The landscaping	plants are k	ept in maintenance	thoughout the estanlish	ment per	riod as fo	lowings:			
	(i) Watering					\checkmark		\checkmark		
	(ii) Weeding					✓		✓		
	(iii) Fertilising				一	✓		$\overline{}$		
	(iv) Littering								一	
	(v) Grass cutting	ξ			同		П		一	
	(vi) Firming up	_			一		П		一	
	(vii) Pest contro	1			Ħ	$\overline{}$	H	✓	一	
	(viii) Disease co								一	
	(ix) Pruning								Ħ	
	(x) Replacement				\equiv		П		一	
A-100	nments:									
No	landscaping work	s were carrie	ed out in the report	ing month						
_										
IV.	Preservation and	l Protection	of Trees							
1.	All preserved tre	ees are prote	cted in accordance	with the specifications		\checkmark		\checkmark		
2.	All preserved tre	ees are fence	d off properly			\checkmark		\checkmark		
3.	No construction preserved trees	activities ar	e carried out in the	protection zone of the		\checkmark		\checkmark		
Con	nments:									
All	retained trees wer	e fenced off	and protected proj	perly within the works ar	ea of the	site.				
				s on the retained trees with			a.			
	iclusion	1	1.5 .1			II T	C	D	C++!	TI. 1'.'
				ransplanting and visual in						i. The conditions
		55.9	2	maintained for the transp						
				ewed in the regular inspe		50			out the	trees was dead
in F	ISPS, We are mor	nitoring heal	th of the tree regul	arly and continuous to m	ake prot	ection for	the the	tree.		
	narks				10.70	1020	0.21			
1. T	1. The regular inspection for the tranplanted trees was scheduled at the end of the reporting month.									
	Tree Nos. T3514	Health Poor	Tree Form Poor	Comments Drying				gested tro y waterin		
	T3514	Poor	Poor	The aerial root were	knot			elease the		
	T3592	Poor	Poor	The aerial root were				elease the		
	HA259	Poor	Poor	Drying	207			y waterin		uired
	HA260	Dead	Dead	Removed from the				plant a n		
	T3517 Signatures:	Dead	Dead	Removed from the	site		10	plant a n	ew tree	
	Signatures.									

Senior Landscape Architect

(Name: David Bloxham MLI (UK Chartered))

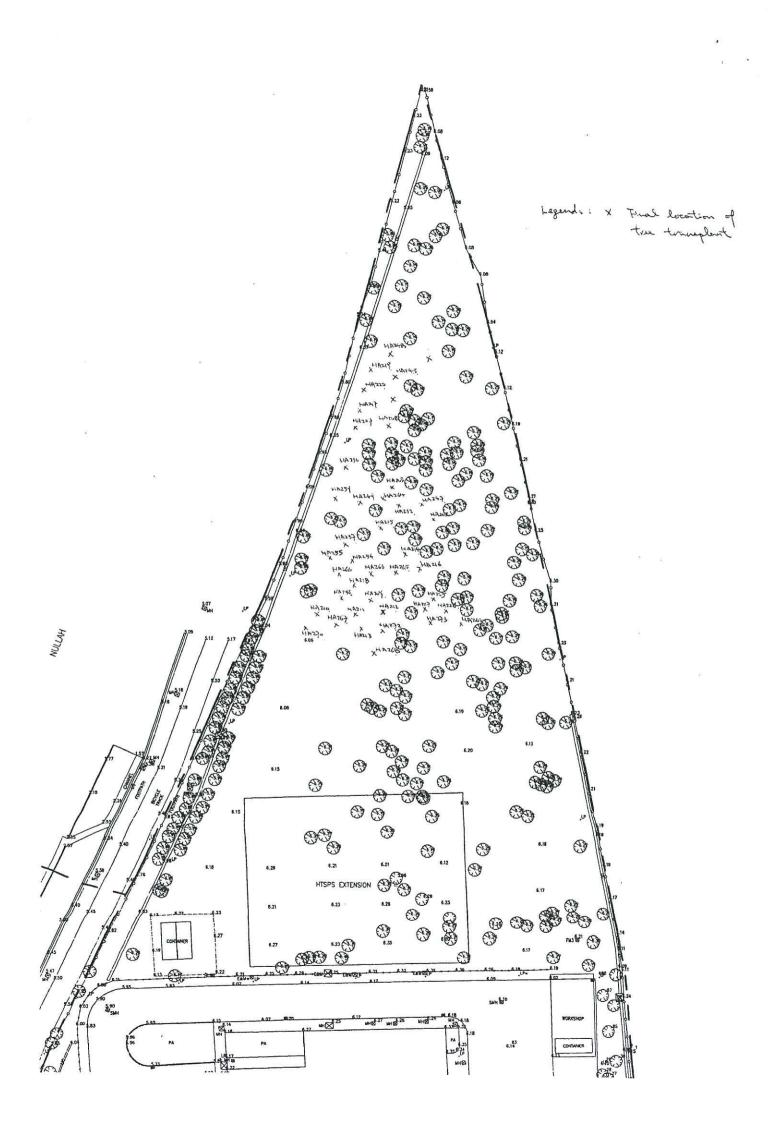
Contract No.:		DC/2009/08								
Contract title:		Construction of Yuen Long South Sewer and Expansion	n of Ha Ts	suen Sewa	age Pump	oing Station				
Cor	ntractor:	China State Construction Engrg. (HK) Ltd.								
Loc	ation:	Ha Tsuen Sewage Pumping Station								
Insp	pection Date:	28-Dec-2010								
			S	atisfactor	гу	Rectified				
			N/A	Yes	No	Yes No	Remarks			
I. G	General						_			
1.	Erect hoarding	g around site boundary properly		\checkmark		✓]			
2.	Keep well ma	intenance of hoarding		\checkmark		\checkmark]			
3.	All construction	on works are carried out within site boundary properly		\checkmark		\checkmark]			
4	Carry out the	initial tree survey prior to construction		\checkmark		✓]			
5	Provide tree la	abels according to tree survey records		\checkmark		√]			
Con	nments:									
Star	ndard hoarding	was erected and well maintained around the works area a	t Ha Tsue	n Sewage	e Pumpin	g Station (HT	SPS).			
The	contruction ha	s no implication to protected tree. Close monitoring the in	mplication	of piling	g works to	o protected tr	ee is required			
II.	Fransplanting	Works								
1.	All transplant specifications	ing works are carried out in accordance with the		✓		V]			
2.	The transplanestablishment	ted trees are kept in regular inspection within the period	\checkmark				Item 1			
3.	The transplan	ted trees are kept in maintenance thoughout the estanlish	ment peri	od as foll	owings:					
	(i) Watering			\checkmark		\checkmark]			
	(ii) Weeding			\checkmark		\checkmark]			
	(iii) Fertilising	g	\checkmark]			
	(iv) Littering			\checkmark		✓				
	(v) Grass cutt	ing		\checkmark		✓]			
	(vi) Firming u	ф		\checkmark		✓]			
	(vii) Pest cont	rol	\checkmark]			
	(viii) Disease	control		\checkmark		✓]			
	(ix) Pruning			✓		✓]			
	(x) Replaceme	ent	\checkmark]			
Cor	nments:									
There had total 73 nos. of transpalnted trees in Ha Tsuen Sewage Pumping Station due to construction works under this co					his contract.					
	10 10 100 100	e undertaking periodically. More pruning for die branch i								
	Landscaping '									
1.		ng works are carried out in accordance with the		1		V]			
2.	-	ng plants are kept in regular inspection within the		\checkmark		√]			

					2	atisfactor	У	Rect	inea	
					N/A	Yes	No	Yes	No	Remarks
3.	The landscaping	g plants are k	ept in maintenance	thoughout the estanlish	nment per	iod as fo	lowings:			
	(i) Watering				\Box	\checkmark		1		
	(ii) Weeding				H		H		\equiv	
					븜		H			
	(iii) Fertilising							Ľ		-
	(iv) Littering				\sqcup	\checkmark	Ш	✓		
	(v) Grass cutting	g				\checkmark		\checkmark		
	(vi) Firming up					\checkmark		\checkmark		
	(vii) Pest contro	ol				\checkmark		\checkmark		
	(viii) Disease co	ontrol				V		\checkmark	3 12 1	
	(ix) Pruning				一	$\overline{}$	一			
	(x) Replacemen	t			H		Ħ		\equiv	1)
	(x) replacemen				ш	ш	ш	ш		
Cor	nments:									
No	landscaping work	s were carrie	ed out in the report	ing month						
IV.	Preservation and	d Protection	of Trees							
1.	All preserved tro	ees are prote	cted in accordance	with the specifications		\checkmark		\checkmark		
2.	All preserved tre	ees are fence	d off properly			—		✓		
8				140 82.0			_		_	
3.	No construction preserved trees	activities ar	e carried out in the	protection zone of the	Ш			\checkmark		
Cor	mments:									
All	retained trees wer	re fenced off	and protected prop	erly within the works ar	ea of the	site.				
-	A Company									
	iclusion		a v 7 a 50		/D 099				20 00 000	
	50			ansplanting and visual i	725					n. The cond
of h	oarding was satis	factory. The	protection works n	naintained for the transp	lanted an	d the pres	served tre	es. The	health	
con	ditions of the tran	splanted tree	es should be review	ved in the regular inspect	tion in the	e establis	nment pe	riod.		
Son	ne of the die bran	ch neeed to r	emove and frequer	ncy watering is required						
Rer	narks	-								
1. T	he regular inspec	tion for the t	ranplanted trees wa	as scheduled at the end of	of the repo	orting mo	nth.			
	Tree Nos.	Health	Tree Form	Comments				gested tr	eatment	
	HA202	Poor	Poor	Drying			sug frequenc			
	HA208	Poor	Poor	Drying			frequenc			
	HA256	Poor	Fair	Drying			frequenc		Demonstration of	
	HA245	Poor	Poor	Drying			frequenc			
	HA255	Dead	Dead	Removed from the				plant a n		
	HA265	Dead	Dead	Removed from the				plant a n		
	HA216 HA226	Dead Dead	Dead Dead	Removed from the				plant a n plant a n		
	HAII	1600	1000	Removed from the	CITE		10	Diant a n	HW Troo	

Signatures:

Senior Landscape Architect

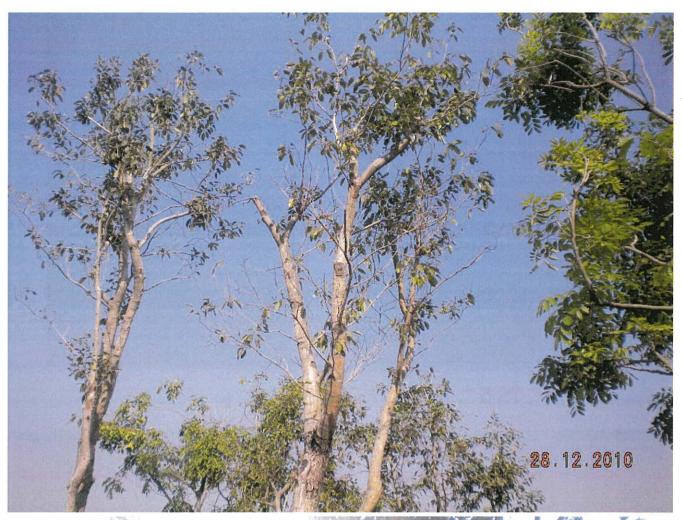
(Name: David Bloxham MLI (UK Chartered))



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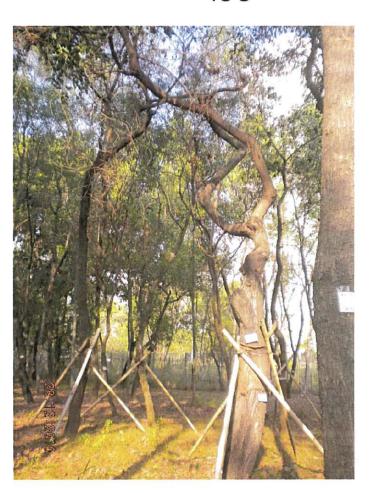


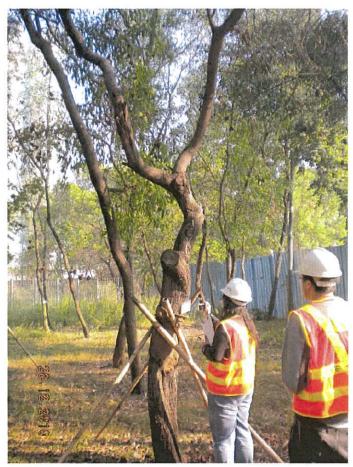






TS 5













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