

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 THIRTY-THIRD RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR OCTOBER 2012 (No.33)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) COMPANY LIMITED

Quality Index

Date	e Reference No. Prepared By		Certified By
15 Jan 2013	TCS00491/09/600/R00434v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)
		Syr A	Em.

Version	Date	Description
1	15 Jan 2013	First submission

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17 January 2013

By E-mail

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Our Ref:

Your Ref:

EB000586-F/THW13-10228

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 2012 to December 2012 – IEC Verification

With reference to ET's captioned Landscape and Visual Impact section of monthly EM&A reports for three reporting months, October 2012 and November 2012 (ET's ref.: TCS0491/09/600/R00434v1 and TCS0491/09/600/R00435v1 dated 15 January 2013) received on 15 January 2013 and December 2012 (ET's ref.: TCS0491/09/600/R00436v1 dated 15 January 2013) received on 17 January 2013, we have no comment and hereby verify the captioned Landscape and Visual Impact sections 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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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 thirty-third (No. 33) LVIM Results, covering the construction period from 1 to 31 October 2012 (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.
- 2.02 The trees at Ha Tsuen Sewage Pumping Station have been handed over to DSD since January 2011 for management and monitoring thereafter.

3. STRUCTURE OF THE LVIM RESULTS

3.01 The structure of this LVIM Results is as follows:-

1. INTRODUCTION

2. LVIM RESULTS 1

APPENDIX A SITE INSPECTION CHECKLIST



Appendix A

Site Inspection Checklist

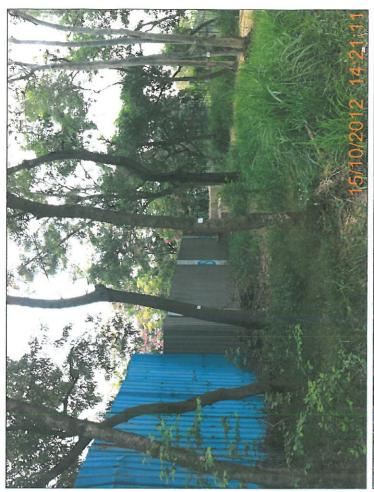
Contract title: Contractor:		Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station								
		China State Construction Engrg. (HK) Ltd.								
Loc	cation:	Ha Tsuen Sewage Pumping Station								
Ins	pection Date:	15-Oct-2012								
			S	Satisfacto	ry	Rec	tified			
			N/A	Yes	No	Yes	No	Remarks		
I. C	General									
1.	Erect hoarding	g around site boundary properly		\checkmark		✓				
2.	Keep well mai	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		\checkmark				
5	Provide tree la	abels according to tree survey records		\checkmark		\checkmark				
Cor	mments:									
Sta	ndard hoarding	was erected and well maintained around the works area a	t Ha Tsue	n Sewage	e Pumpin	g Statio	n (HTSPS).			
The	contruction has	s no implication to protected tree.								
II.	Transplanting '	Works								
1.	All transplanti specifications	ng works are carried out in accordance with the		\checkmark		\checkmark				
2.	The transplant establishment	ed trees are kept in regular inspection within the period		√		\checkmark				
3.	The transplant	ed trees are kept in maintenance thoughout the establish	ment perio	od as foll	owings:					
	(i) Watering		\checkmark							
	(ii) Weeding		\checkmark							
	(iii) Fertilising	;	\checkmark							
	(iv) Littering		\checkmark							
	(v) Grass cutti	ng	\checkmark .							
	(vi) Firming u	p	\checkmark							
	(vii) Pest contr	rol	\checkmark							
	(viii) Disease	control	\checkmark							
	(ix) Pruning		\checkmark							
	(x) Replacement		\checkmark							
Cor	nments:									
The	ere had total 73 i	nos. of transpalnted trees in Ha Tsuen Sewage Pumping S	Station due	e to const	truction v	vorks un	der this cor	ntract.		
All	tree have been l	nandover back to DSD.								
III.	Landscaping V	Vorks								
1.	All landscapin specifications	g works are carried out in accordance with the		\checkmark		✓				
2.	The landscapin establishment	ng plants are kept in regular inspection within the period		\checkmark		✓				

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DC/2009/08

		S	Satisfacto	у	Rec	tified	
		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the establish	ment per	iod as fo	llowings:			
	(i) Watering		\checkmark		1		
	(ii) Weeding		✓		1		
	(iii) Fertilising		V		V		
	(iv) Littering		V		1		- Company to the comp
	(v) Grass cutting		V		~		
	(vi) Firming up		V		V		V
,	(vii) Pest control		V		V		
	(viii) Disease control		$\overline{\mathbf{Y}}$		1		W-4
	(ix) Pruning		V		V		
	(x) Replacement		1		\checkmark		
Cor	nments:					4.5	
No	landscaping works were carried out in the reporting month						
IV.	Preservation and Protection of Trees						
1.	All preserved trees are protected in accordance with the specifications	V					Market .
2.	All preserved trees are fenced off properly	V					
3.	No construction activities are carried out in the protection zone of the preserved trees	1					
Cor	nments:						
All	retained trees were fenced off and protected properly within the works ar	ea of the	site, DSE) is carry	ing out	he prese	ervation
and	protection.						
Cor	iclusion						
Ger	erally, the overall conditions are normal in the transplanting and visual in	npact at	Ha Tsuen	Sewage	Pumpin	g Statio	n. The conditions
of h	oarding was satisfactory. The trees which are at Ha Tsue Pumping Statio	n have be	een return	ed to Dra	ninage S	ervices	Department manageme
and	monitoring in January2011.						
	·						
Rer	narks						
	4						
	Signatures:						
	Sanior Landscana Architect						

(Name: David Bloxham MLI (UK Chartered))









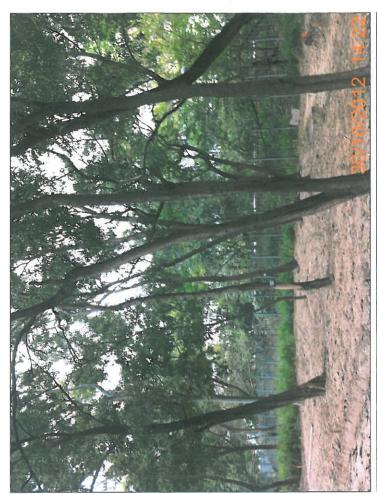
Contract title:		Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station								
Contractor:		China State Construction Engrg. (HK) Ltd.								
Lo	cation:	Ha Tsuen Sewage Pumping Station								
Ins	spection Date:	30-Oct-2012								
			S	Satisfacto	ry	Rectified				
			N/A	Yes	No	Yes No	Remarks			
I. (General									
1.	Erect hoarding	g around site boundary properly		\checkmark						
2.	Keep well mai	intenance of hoarding		\checkmark		✓				
3.	All construction	on works are carried out within site boundary properly				/				
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 a	t Ha Tsue	n Sewage	e Pumpin	g Station (HTSPS).			
The	e contruction has	s no implication to protected tree.					TWO STATES OF THE STATES OF TH			
II.	Transplanting '	Works					observed the second sec			
1.	All transplanti specifications	ng works are carried out in accordance with the		\checkmark		✓				
2.	The transplant establishment	ed trees are kept in regular inspection within the period		✓		/	1			
3.	The transplant	ed trees are kept in maintenance thoughout the establish	ment perio	od as foll	owings:					
	(i) Watering	E	\checkmark							
	(ii) Weeding		\checkmark							
	(iii) Fertilising		\checkmark							
	(iv) Littering		\checkmark							
	(v) Grass cutting	ng	\checkmark				***************************************			
	(vi) Firming up	p	\checkmark							
	(vii) Pest contr	rol	\checkmark							
	(viii) Disease	control	\checkmark							
	(ix) Pruning		\checkmark							
	(x) Replaceme	nt	\checkmark							
Cor	nments:									
The	ere had total 73 n	nos. of transpalnted trees in Ha Tsuen Sewage Pumping S	Station due	to const	ruction v	vorks under this co	ntract.			
All	tree have been h	andover back to DSD.								
III.	Landscaping V	Vorks		,						
1.	All landscaping specifications	g works are carried out in accordance with the		√		/				
2.	The landscapin	ng plants are kept in regular inspection within the period		√		<u> </u>				

Contract No.:

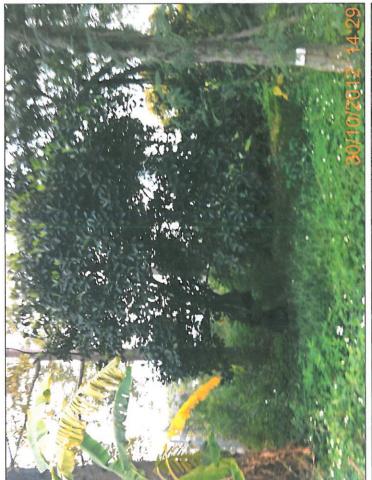
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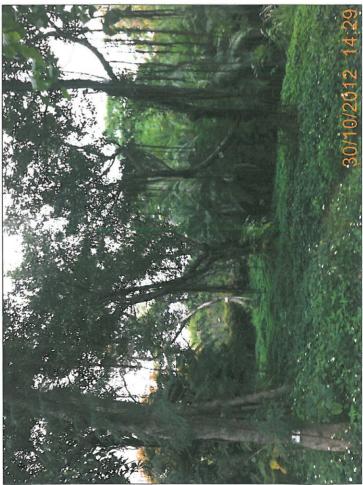
	and the second s	S	atisfactory	,	Rec	tified	
		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the establish	ment per	iod as follo	owings:			
	(i) Watering		V		✓		
	(ii) Weeding		\checkmark		\checkmark		
	(iii) Fertilising		✓		V		
	(iv) Littering		\checkmark		\checkmark		91
	(v) Grass cutting		\checkmark		V		
	(vi) Firming up		\checkmark		\checkmark		
	(vii) Pest control		✓		\checkmark		S
	(viii) Disease control		V		\checkmark		
	(ix) Pruning		$\overline{}$		\checkmark		
	(x) Replacement		1		\checkmark		
Con	nments:						
No	landscaping works were carried out in the reporting month						water the second se
IV.	Preservation and Protection of Trees						
1.	All preserved trees are protected in accordance with the specifications	V	-				
2.	All preserved trees are fenced off properly	V					
3.	No construction activities are carried out in the protection zone of the preserved trees	✓					
Cor	nments:						
All	retained trees were fenced off and protected properly within the works ar	ea of the	site. DSD	is carryi	ing out t	he prese	ervation
and	protection.						· · · · · · · · · · · · · · · · · · ·
Co	aclusion						
Gei	nerally, the overall conditions are normal in the transplanting and visual in	npact at	Ha Tsuen S	Sewage	Pumpin	g Statio	n. The conditions
of l	noarding was satisfactory. The trees which are at Ha Tsue Pumping Statio	n have be	een returne	d to Dra	inage S	ervices l	Department manageme
and	monitoring in January2011.						
Rei	narks			-			
-	Signatures:						
	Senior Landscape Architect						

(Name: David Bloxham MLI (UK Chartered))









Summary of Dead Transplanted Trees in Ha Tsuen Sewage Pumping Station

					Size	
Tree No.	Tree Species	5	Height	Trunk	Spread	Eallow vm action
		(m)	Dia. (mm)	(m)	Follow up action	
HA202	Melia azedarach	森樹	6	111	3	
HA203	Eucalyptus torelliana	毛葉桉	8	143	3	
HA207	Acacia confusa	台灣相思	6.5	120	2.5]
HA216	Acacia auriculiformis	耳果相思	7	201	3	1
HA226	Acacia auriculiformis	耳果相思	6	131	4	HA202,HA203,
HA227	Acacia auriculiformis	耳果相思	8	242	3	HA207,HA216,
HA245	Acacia confusa	台灣相思	7	137	3	HA226,HA227, HA245,HA250,
HA250	Acacia confusa	台灣相思	6.5	180	2.5	HA255,HA257,
HA255	Acacia auriculiformis	耳果相思	8	201	3	HA265,HA266,
HA257	Acacia confusa	台灣相思	7	217	3	HA272,HA273
HA265	Acacia auriculiformis	耳果相思	6	188	3	HB62,HB63,HB66
HA266	Acacia auriculiformis	耳果相思	5.5	180	3	,
HA272	Eucalyptus torelliana	毛葉桉	7	120	3	HB67,HB67,HB82
HA273	Acacia auriculiformis	耳果相思	5	290	4	,
HB62	Acacia confusa	台灣相思	6	200	3	HB83,HB93,HB10
HB63	Acacia auriculiformis	耳果相思	6	300	4.5	1, HB102. Those
HB66	Acacia confusa	台灣相思	6	210	3	trees were
HB67	Acacia confusa	台灣相思	6	205	3	removed by CSHK
HB82	Acacia auriculiformis	耳果相思	5.5	285	3	on 29th
HB83	Acacia auriculiformis	耳果相思	6	290	3.5	October2012.
HB93	Acacia auriculiformis	耳果相思	5	270	3	1
HB101	Acacia confusa	台灣相思	6.5	220	3.5	1
HB102	Acacia confusa	台灣相思	6	200	3	1

Proposed species to replace dead transplanted trees:

⁽¹⁾ Melaleuca quinquenervia 白千層 - Trunk diameter $60 \sim 70 mm$

⁽²⁾ Bauhinia variegata 宮粉羊蹄甲 - Trunk diameter $60 \sim 70 mm$

NULLAH 0 HTSPS EXTENSION 9

