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-FOURTH RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR NOVEMBER 2012 (No.34)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) COMPANY LIMITED

Quality Index

Date	Reference No.	Prepared By	Certified By
15 Jan 2013	TCS00491/09/600/R00435v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)
		Syr >	Janu-

Version	Date	Description
1	15 Jan 2013	First submission

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

安誠工程顧問有限公司

香港灣仔 皇后大道東183號 合和中心47樓

電話: (852) 2911 2233 傳真: (852) 2805 5028

Hyder Consulting Limited

Company Number 126012
47th Floor, Hopewell Centre
183 Queen's Road East
Wan Chai, Hong Kong
Tel: (852) 2911 2233
Fax: (852) 2805 5028
hyder.hk@hyderconsulting.com
www.hyderconsulting.com



17 January 2013

By E-mail

Action-United Environmental Services & Consulting
Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road,
Kwai Chung,
New Territories,
Hong Kong.

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

Faibleon

FCT/my



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-fourth (No. 34) LVIM Results, covering the construction period from 1 to 30 November 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

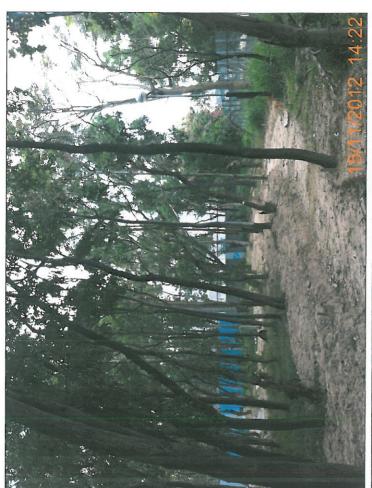
Contract title:		Construction of Yuen Long South Sewer and Expansio	n of Ha T:	suen Sew	age Pump	oing Station	_
Coı	ntractor:	China State Construction Engrg. (HK) Ltd.					
Loc	cation:	Ha Tsuen Sewage Pumping Station					
Ins	pection Date:	15-Nov-2012					
Children VI and			S	Satisfacto	ry	Rectified	
T (N/A	Yes	No	Yes No	Remarks
	General						
1.	Erect hoarding	g around site boundary properly	Ш	<u> </u>	Ш	Ľ L _	
2.	Keep well ma	intenance of hoarding		\checkmark		✓	
3.	All construction	on works are carried out within site boundary properly		\checkmark		✓	
4	Carry out the	initial tree survey prior to construction		\checkmark		✓	
5	Provide tree la	abels according to tree survey records		\checkmark		✓	
Cor	nments:						
Sta	ndard hoarding	was erected and well maintained around the works area a	ıt Ha Tsue	n Sewage	e Pumpin	g Station (HTSPS).	
The	contruction has	s no implication to protected tree.					
II.	Transplanting '	Works					£.
1.	All transplanti specifications	ing works are carried out in accordance with the		\checkmark		/	
2.				√		✓ <u> </u>	3
3.	The transplant	ed trees are kept in maintenance thoughout the establish	ment perio	od as foll	owings:		
	(i) Watering		\checkmark				
	(ii) Weeding		✓				
	(iii) Fertilising		\checkmark				
	(iv) Littering		\checkmark				
	(v) Grass cutti	ng	\checkmark				
	(vi) Firming u	p	\checkmark				
	(vii) Pest cont	rol	\checkmark				
	(viii) Disease	control	\checkmark				
	(ix) Pruning		\checkmark				
	(x) Replaceme	ent	\checkmark				
Cor	specifications 2. The transplanted trees are kept in regular inspection within the establishment period 3. The transplanted trees are kept in maintenance thoughout the establishment period as followings: (i) Watering (ii) Weeding (iii) Fertilising (iv) Littering (v) Grass cutting (vi) Firming up (vii) Pest control (viii) Disease control (viii) Disease control (viii) Pruning (x) Replacement Comments: There had total 73 nos. of transpalnted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.						
The	ere had total 73 i	nos. of transpalnted trees in Ha Tsuen Sewage Pumping S	Station due	e to const	ruction v	works under this cont	ract.
All	tree have been l	nandover back to DSD.					
III.	Landscaping V	Vorks		-10 ¹⁷ feer 10			
1.	All landscapin specifications	g works are carried out in accordance with the		\checkmark		✓	
2.	The landscapinestablishment	ng plants are kept in regular inspection within the period		\checkmark			

Contract No.:

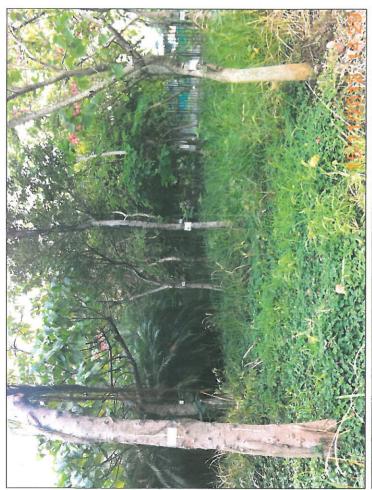
DC/2009/08

		S	atisfacto:	ry	Rec	ified	
		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the establis	hment per	iod as fo	llowings:			
	(i) Watering		✓		\checkmark		
	(ii) Weeding		\checkmark		✓		
	(iii) Fertilising		✓		1		4
	(iv) Littering		V		✓		
	(v) Grass cutting		~		\checkmark		
	(vi) Firming up		\checkmark		✓		
	(vii) Pest control		✓		1		
	(viii) Disease control		/		\checkmark		
	(ix) Pruning				\checkmark		
	(x) Replacement		1		✓		
Cor	nments:						
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	\checkmark					L
2.	All preserved trees are fenced off properly	V					· · · · · · · · · · · · · · · · · · ·
3.	No construction activities are carried out in the protection zone of the preserved trees	✓					
Co	nments:						
All	retained trees were fenced off and protected properly within the works a	irea of the	site. DSI) is carry	ing out t	he pres	ervation
and	protection.						
Co	nclusion					1.10	
Ge	erally, the overall conditions are normal in the transplanting and visual	impact at	Ha Tsuer	sewage	Pumpin	g Statio	m. The conditions
	oarding was satisfactory. The trees which are at Ha Tsue Pumping Stati						
and	monitoring in January2011.						
Re	narks	7,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

(Name: David Bloxham MLI (UK Chartered))









Contract title:		Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station								
Co	ntractor:	China State Construction Engrg. (HK) Ltd.								
Lo	cation:	Ha Tsuen Sewage Pumping Station								
Ins	spection Date:	30-Nov-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	ntenance of hoarding		\checkmark		\checkmark]			
3.	All construction	on works are carried out within site boundary properly		\checkmark		✓]			
4	Carry out the i	nitial tree survey prior to construction		\checkmark		\checkmark]			
5	Provide tree la	bels according to tree survey records		\checkmark		✓]	100		
Co	mments:									
Sta	ndard hoarding	was erected and well maintained around the works area a	nt Ha Tsue	n Sewage	e Pumpin	g Station (HT	SPS).			
The	e 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		✓	l			
2.				\checkmark		/				
3.	The transplant	ed trees are kept in maintenance thoughout the establish	ment perio	od as foll	owings:					
	(i) Watering		\checkmark				l			
	(ii) Weeding		\checkmark							
	(iii) Fertilising		\checkmark							
	(iv) Littering		\checkmark							
	(v) Grass cutti	ng	\checkmark				l			
	(vi) Firming u	p	\checkmark							
	(vii) Pest contr	rol	\checkmark							
	(viii) Disease	control	\checkmark							
	(ix) Pruning		\checkmark							
	(x) Replaceme	nt	\checkmark							
Cor	nments:									
The	Intractor: China State Construction Engrg. (HK) Ltd. cation: Ha Tsuen Sewage Pumping Station Spection Date: 30-Nov-2012 Satisfactory Rectified									
All	tree have been h	andover back to DSD.								
III.	Landscaping V	Vorks								
1.		g works are carried out in accordance with the		√		✓				
2.	The landscapin			\checkmark		✓				

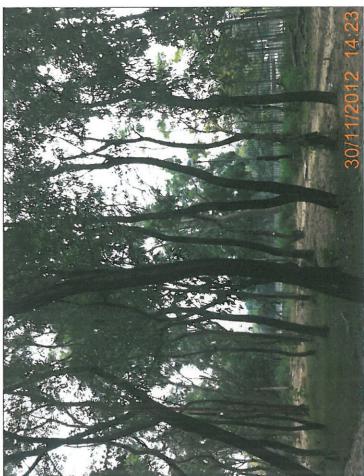
Contract No.:

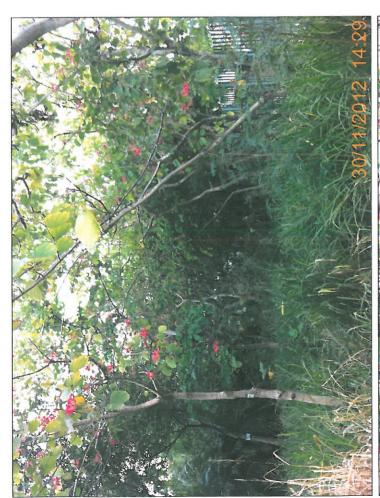
DC/2009/08

		S	atisfactor	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 fol	llowings:			
	(i) Watering		\checkmark		1		
	(ii) Weeding		\checkmark		1		-
	(iii) Fertilising		✓		V		
	(iv) Littering		V		1		
	(v) Grass cutting		\checkmark		✓		
	(vi) Firming up		\checkmark		1		1
	(vii) Pest control		\checkmark		\checkmark		
	(viii) Disease control		/		1		hale a second se
	(ix) Pruning		\checkmark		7		
	(x) Replacement		1		$\overline{}$		
Co	nments:						
No	landscaping works were carried out in the reporting month	·-···	IIWa 4				
							14Wagan ayan ayan ayan ayan ayan ayan ayan
IV.	Preservation and Protection of Trees						
i.	All preserved trees are protected in accordance with the specifications	\checkmark					
2.	All preserved trees are fenced off properly	~					
3.	No construction activities are carried out in the protection zone of the preserved trees	V					
Co	nments:						
All	retained trees were fenced off and protected properly within the works are	ea of the	site. DSE	is carry	ing out t	he prese	ervation
and	protection.						
Co	nclusion						
Ge	nerally, the overall conditions are normal in the transplanting and visual in	npact at l	Ha Tsuen	Sewage	Pumpin	g Statio	n. The conditions
of l	noarding was satisfactory. The trees which are at Ha Tsue Pumping Station	n have be	een return	ed to Dra	inage S	ervices	Department managem
anc	monitoring in January2011.						
			,				
Re	narks						
Description of the Party of the	Signatures:						

(Name: David Bloxham MLI (UK Chartered))









Summary of Dead Transplanted Trees in Ha Tsuen Sewage Pumping Station

				*	Size	
Tree No.	Tree Species	S	Height	Trunk	Spread	Fellow ve setion
		(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	111,000,111,000
HA226	Acacia auriculiformis	耳果相思	6	131	4	HA202,HA203,
HA227	Acacia auriculiformis	耳果相思	8	242	3	HA207,HA216, HA226,HA227,
HA245	Acacia confusa	台灣相思	7	137	3	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 October2012.
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	
HB102	Acacia confusa	台灣相思	6	200	3	

Proposed species to replace dead transplanted trees:

- (1) Melaleuca quinquenervia 白千層 Trunk diameter $60 \sim 70 \text{mm}$
- (2) Bauhinia variegata 宮粉羊蹄甲 Trunk diameter $60 \sim 70 \text{mm}$

® ® 3 3 O HTSPS EXTENSION (3)

