

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-FIFTH RESULTS OF LANDSCAPE AND VISUAL IMPACT
MONITORING
FOR DECEMBER 2012 (No.35)

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/R00436v1	Wong Fu Nam (Senior Environmental Consultant)	T.W. Tam (Environmental Team Leader)
			

Version	Date	Description
1	15 Jan 2013	First submission

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17 January 2013

By E-mail

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New Territories,
Hong Kong.

Your Ref:

Our 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

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-fifth (No. 35) LVIM Results, covering the construction period from 1 to 31 December 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	1
2. LVIM RESULTS	1

APPENDIX A SITE INSPECTION CHECKLIST

Appendix A

Site Inspection Checklist

Contract No.: DC/2009/08
Contract title: Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station
Contractor: China State Construction Engrg. (HK) Ltd.
Location: Ha Tsuen Sewage Pumping Station
Inspection Date: 15-Dec-2012

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	☐	☒	☐	☒	☐	
2.	Keep well maintenance of hoarding	☐	☒	☐	☒	☐	
3.	All construction works are carried out within site boundary properly	☐	☒	☐	☒	☐	
4.	Carry out the initial tree survey prior to construction	☐	☒	☐	☒	☐	
5.	Provide tree labels according to tree survey records	☐	☒	☐	☒	☐	

Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

The construction has no implication to protected tree.

II. Transplanting Works

1. All transplanting works are carried out in accordance with the specifications	☐	☒	☐	☒	☐	
2. The transplanted trees are kept in regular inspection within the establishment period	☐	☒	☐	☒	☐	
3. The transplanted trees are kept in maintenance throughout the establishment period as follows:						
(i) Watering	☒	☐	☐	☐	☐	
(ii) Weeding	☒	☐	☐	☐	☐	
(iii) Fertilising	☒	☐	☐	☐	☐	
(iv) Littering	☒	☐	☐	☐	☐	
(v) Grass cutting	☒	☐	☐	☐	☐	
(vi) Firming up	☒	☐	☐	☐	☐	
(vii) Pest control	☒	☐	☐	☐	☐	
(viii) Disease control	☒	☐	☐	☐	☐	
(ix) Pruning	☒	☐	☐	☐	☐	
(x) Replacement	☒	☐	☐	☐	☐	

Comments:

There had total 73 nos. of transplanted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

All tree have been handover back to DSD.

III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	☐	☒	☐	☒	☐	
2. The landscaping plants are kept in regular inspection within the establishment period	☐	☒	☐	☒	☐	

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout 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	☐	☒	☐	☒	☐	
(ix) Pruning	☐	☒	☐	☒	☐	
(x) Replacement	☐	☒	☐	☒	☐	

Comments:

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	☒	☐	☐	☐	☐	
2. All preserved trees are fenced off properly	☒	☐	☐	☐	☐	
3. No construction activities are carried out in the protection zone of the preserved trees	☒	☐	☐	☐	☐	

Comments:

All retained trees were fenced off and protected properly within the works area of the site. DSD is carrying out the preservation and protection.

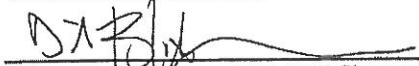
Conclusion

Generally, the overall conditions are normal in the transplanting and visual impact at Ha Tsuen Sewage Pumping Station. The conditions of hoarding was satisfactory. The trees which are at Ha Tsue Pumping Station have been returned to Drainage Services Department management and monitoring in January 2011.

Remarks

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 of Ha Tsuen Sewage Pumping Station
Contractor: China State Construction Engrg. (HK) Ltd.
Location: Ha Tsuen Sewage Pumping Station
Inspection Date: 31-Dec-2012

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	☐	☒	☐	☒	☐	
2.	Keep well maintenance of hoarding	☐	☒	☐	☒	☐	
3.	All construction works are carried out within site boundary properly	☐	☒	☐	☒	☐	
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Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

The construction has no implication to protected tree.

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(v) Grass cutting	☒	☐	☐	☐	☐	
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There had total 73 nos. of transpalnted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

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III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	☐	☒	☐	☒	☐	
2. The landscaping plants are kept in regular inspection within the establishment period	☐	☒	☐	☒	☐	

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout 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	☐	☒	☐	☒	☐	
(ix) Pruning	☐	☒	☐	☒	☐	
(x) Replacement	☐	☒	☐	☒	☐	

Comments:

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	☒	☐	☐	☐	☐	
2. All preserved trees are fenced off properly	☒	☐	☐	☐	☐	
3. No construction activities are carried out in the protection zone of the preserved trees	☒	☐	☐	☐	☐	

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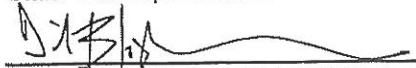
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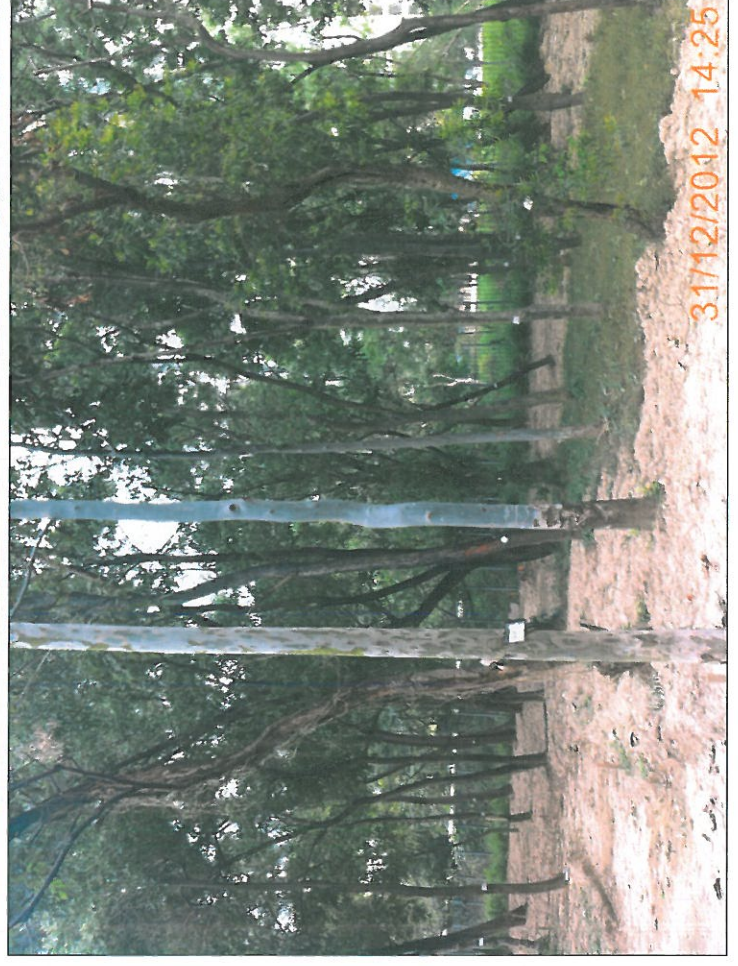
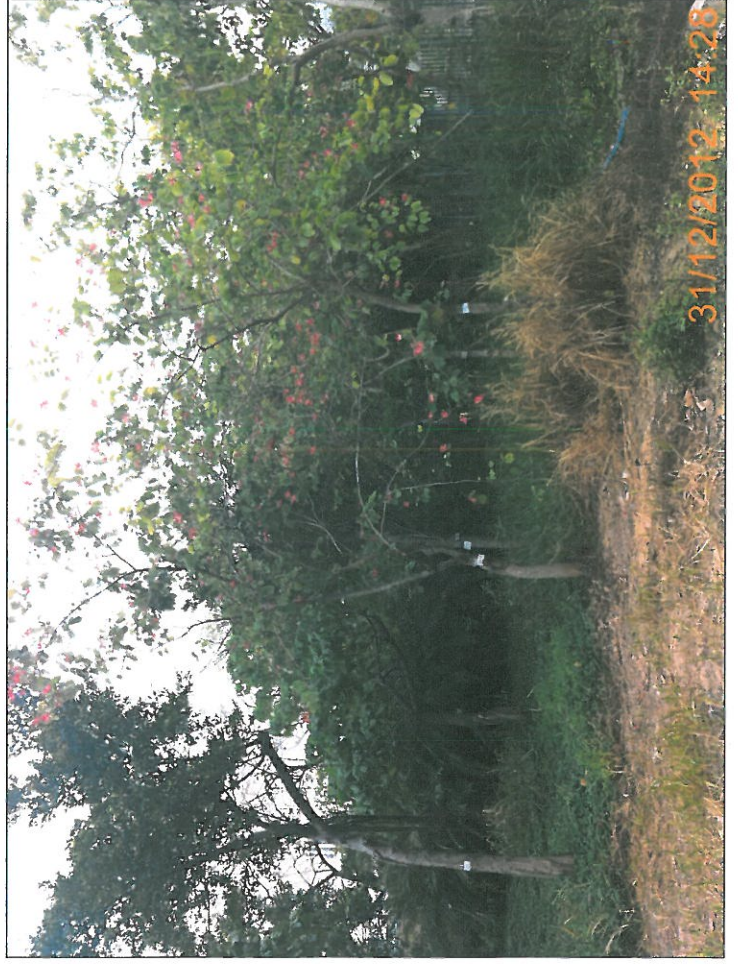
Remarks

Signatures:

Senior Landscape Architect



(Name: David Bloxham MLI (UK Chartered))

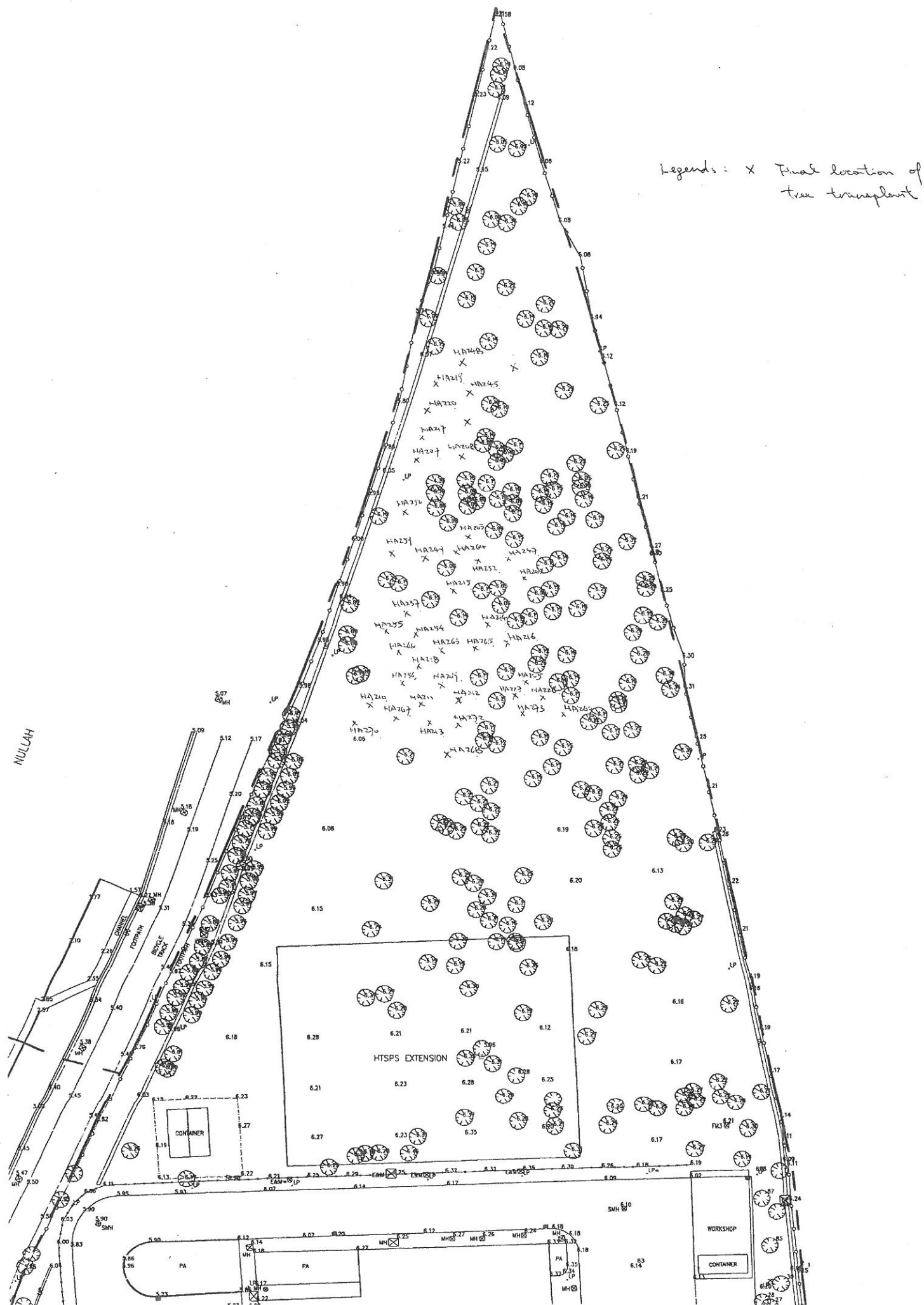


Summary of Dead Transplanted Trees in Ha Tsuen Sewage Pumping Station

Tree No.	Tree Species		Size			Follow up action
			Height (m)	Trunk Dia. (mm)	Spread (m)	
HA202	Melia azedarach	森樹	6	111	3	HA202,HA203, HA207,HA216, HA226,HA227, HA245,HA250, HA255,HA257, HA265,HA266, HA272,HA273 HB62,HB63,HB66 , HB67,HB67,HB82 , HB83,HB93,HB101, HB102. Those trees were removed by CSHK on 29th October2012.
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	
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	
HA250	Acacia confusa	台灣相思	6.5	180	2.5	
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	
HA266	Acacia auriculiformis	耳果相思	5.5	180	3	
HA272	Eucalyptus torelliana	毛葉桉	7	120	3	
HA273	Acacia auriculiformis	耳果相思	5	290	4	
HB62	Acacia confusa	台灣相思	6	200	3	
HB63	Acacia auriculiformis	耳果相思	6	300	4.5	
HB66	Acacia confusa	台灣相思	6	210	3	
HB67	Acacia confusa	台灣相思	6	205	3	
HB82	Acacia auriculiformis	耳果相思	5.5	285	3	
HB83	Acacia auriculiformis	耳果相思	6	290	3.5	
HB93	Acacia auriculiformis	耳果相思	5	270	3	
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 ~ 70mm
- (2) Bauhinia variegata 宮粉羊蹄甲 - Trunk diameter 60 ~ 70mm





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