CLP Power

Installation of Proposed Cable Route from Cheung Sha to Tung Chung

Updated Vegetation Survey Report (1st Batch for Sections 5,6,8 and 9)

3 April 2023

Project No.: 0656103

Environmental Permit No. EP-611/2022

Installation of Proposed Cable Route from Cheung Sha to Tung Chung

Certification and Verification

Reference Document/Plan

~~Document~~/Plan to be ~~Certified~~/ Verified:	Updated Vegetation Survey Report (1st Batch for Sections 5,6,8 and 9)
Date of Report:	3 April 2023

Reference EP Condition

Environmental Permit Condition: 2.2 and 2.3

2.2 An ecologist shall be employed by the Permit Holder before commencement of construction of the Project. The ecologist shall conduct vegetation and fauna surveys as specified under Conditions 2.3 and 2.4 of this Permit, and certify the submissions under Conditions 2.3 and 2.4 of this Permit. The ecologist shall be a person who has at least 3 years of relevant experience. The qualification and experience of the ecologist shall be verified by the IEC.

2.3 Before commencement of site clearance works at the concerned works areas, updated vegetation survey(s) along the proposed cable route within country park shall be conducted by the qualified ecologist appointed under Condition 2.2 above to confirm presence of any newly colonised flora species of conservation importance within and in the vicinity of the concerned works area. The Permit Holder shall, no later than 1 month before commencement of site clearance works at the concerned works areas, deposit with the Director 4 hard copies and 1 electronic copy of Updated Vegetation Survey Report(s) (UVSR(s)) prepared by the qualified ecologist appointed under Condition 2.2 above, and verified by the IEC. The UVSR(s) shall provide details and findings of the updated vegetation survey(s) including details of the mitigation measures required. The UVSR(s) shall include an implementation schedule in table form to clearly list out the mitigation measures to be implemented, the implementation party, location and timing. The mitigation measures recommended and requirements specified in the UVSR(s) shall be fully implemented.

Certification by Qualified Ecologist

I hereby certify that the above referenced ~~document~~/plan complies with the above referenced conditions of EP-611/2022.

Date: 3 April 2023

Mr Mike Pang
Qualified Ecologist

Verification by Independent Environmental Checker

I hereby verify that the above referenced ~~document~~/plan complies with the above referenced conditions of EP-611/2022.

Date: 3 April 2023

Mr. Arthur Lo
Independent Environmental Checker

Our ref: 0656103_Verification Cert_UVSR(Batch1)_20221007.docx

Document details	
Document title	Installation of Proposed Cable Route from Cheung Sha to Tung Chung
Document subtitle	Updated Vegetation Survey Report (1st Batch for Sections 5,6,8 and 9)
Project No.	0656103
Date	3 April 2023
Version	1.0
Author	Mike Pang
Client Name	CLP Power Hong Kong

Document history

				ERM approval to issue		
Version	Revision	Author	Reviewed by	Name	Date	Comments
Draft	0.0	Mike Pang	Mandy To	Terence Fong	7.10.2022	-
Final	1.0	Various	Mandy To	Terence Fong	3.4.2023	-

Signature Page

3 April 2023

Installation of Proposed Cable Route from Cheung Sha to Tung Chung

Updated Vegetation Survey Report (1st Batch for Sections 5,6,8 and 9)

Terence Fong
Partner

ERM-Hong Kong, Limited
2509, 25/F One Harbourfront
18 Tak Fung Street
Hunghom
Kowloon

© Copyright 2023 by ERM Worldwide Group Ltd and / or its affiliates ("ERM").
All rights reserved. No part of this work may be reproduced or transmitted in any form,
or by any means, without the prior written permission of ERM

CONTENTS

List of Table

List of Figures

Annexes

1. INTRODUCTION

1.1 Background

In order to reinforce the electricity supply security at South Lantau Area and meet the future loading growth, CLP proposes to install an additional underground 132kV 150MVA cable circuit connecting the existing Cheung Sha substation to the existing Tung Chung Town substation.

A Project Profile (PP-641/2022) was prepared in support of the Application for permission to apply directly (DIR) for an EP for the Project under the provisions of Section 5(11) of the EIAO. The application was submitted to EPD in April 2022 with DIR permission (DIR-290/2022) and EP (EP-611/2022) granted by EPD on 17 May 2022 and 20 June 2022 respectively.

The alignment of the proposed cable route is shown in ***Figure 1.1*** and as indicated, part of the proposed cable route is located within the Lantau South Country Park, Lantau North Country Park and Lantau North Country Park (Extension) i.e. Sections 4-13, and part of it is outside the Country Parks (i.e. S1-S3 and S14-S22).

In accordance with the EP Conditions 2.2 and 2.3, updated vegetation survey(s) along the proposed cable route within country park shall be conducted by the qualified ecologist appointed under EP Condition 2.2 to confirm presence of any newly colonised flora species of conservation importance within and in the vicinity of the concerned works area. The Permit Holder shall, no later than 1 month before commencement of site clearance works at the concerned works areas.

EP Condition 2.2:

> *"An ecologist shall be employed by the Permit Holder before commencement of construction of the Project. The ecologist shall conduct vegetation and fauna surveys as specified under Conditions 2.3 and 2.4 of this Permit, and certify the submissions under Conditions 2.3 and 2.4 of this Permit. The ecologist shall be a person who has at least 3 years of relevant experience. The qualification and experience of the ecologist shall be verified by the IEC."*

EP Condition 2.3:

> *"Before commencement of site clearance works at the concerned works areas, updated vegetation survey(s) along the proposed cable route within country park shall be conducted by the qualified ecologist appointed under Condition 2.2 above to confirm presence of any newly colonised flora species of conservation importance within and in the vicinity of the concerned works area. The Permit Holder shall, no later than 1 month before commencement of site clearance works at the concerned works areas, deposit with the Director 4 hard copies and 1 electronic copy of Updated Vegetation Survey Report(s) (UVSR(s)) prepared by the qualified ecologist appointed under Condition 2.2 above, and verified by the IEC. The UVSR(s) shall provide details and findings of the updated vegetation survey(s) including details of the mitigation measures required. The UVSR(s) shall include an implementation schedule in table form to clearly list out the mitigation measures to be implemented, the implementation party, location and timing. The mitigation measures recommended and requirements specified in the UVSR(s) shall be fully implemented."*

The appointed qualified ecologist **Mr. Mike Pang** has over 7 years of experience in the ecology field and has extensive experience in conducting field surveys for key flora and fauna groups. Relevant experience and qualifications of the qualified ecologist are presented in his brief CV attached in ***Annex 3***. The qualification and experience of the qualified ecologist have been verified by the IEC.

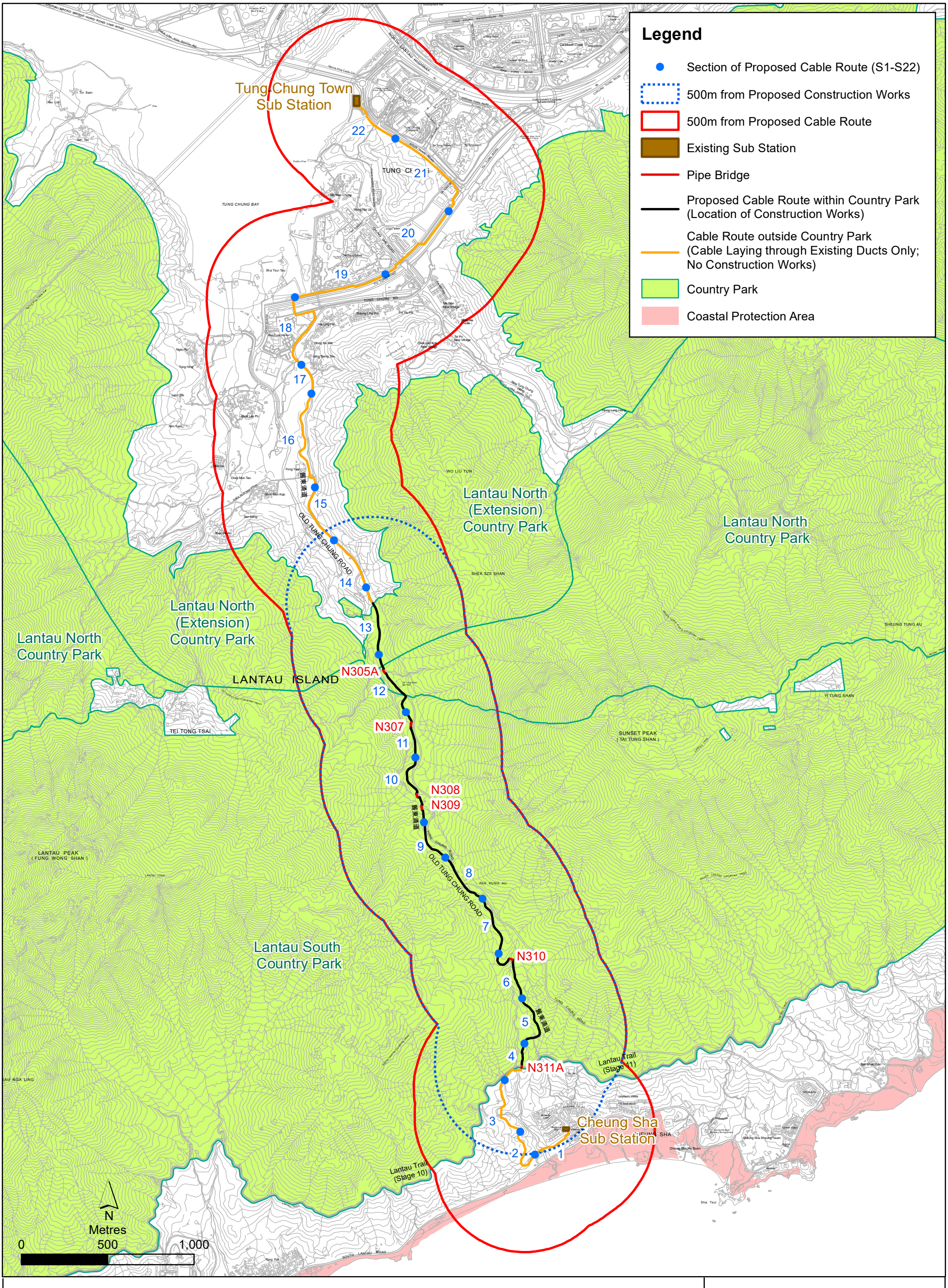


Figure 1.1

Installation of Proposed Cable Route from Cheung Sha to Tung Chung Town

File: T:\GIS\CONTRACT\0423202\mxd\0423202_Cable_Alignment.mxd
Date: 14/9/2022

Environmental Resources Management

ERM

1.2 Objective and Scope of the Plan

The construction works of the proposed cable route located within the Lantau South Country Park, Lantau North Country Park and Lantau North Country Park (Extension) i.e. Sections S4-S13 will be conducted by phases. Sections 5, 6, 8 and 9 are included in the first phase of construction works. Updated vegetation survey along the proposed cable route including Sections 5,6,8 and 9 within country park (***Figure 1.1***) was conducted on 23 August 2022. This Updated Vegetation Survey Report (UVSR) is prepared for Sections 5, 6, 8 and 9 (1st Batch) by the qualified ecologist appointed under Condition 2.2 of the EP No. EP-611/2022. The UVSR provided details and findings of the updated vegetation survey including details of the mitigation measures required. Subject to the findings of the survey, the ecological preventive and mitigation measures proposed in the PP have been reviewed and updated as necessary.

2. SURVEY METHODOLOGY

Updated vegetation survey was carried out along the proposed cable route at Sections 5,6,8 and 9 within country park (***Figure 1.1***) on 23 August 2022. Details of the survey methods are provided in ***Section 2.1***. The results and of the updated vegetation survey and the review of protective measures are given in ***Sections 3*** and ***4***.

2.1 Updated Vegetation Survey Survey

Updated vegetation survey was conducted by walking through the proposed cable route including Sections 5,6,8 and 9 within country park (***Figure 1.1***). The survey particularly focused on confirming any newly colonised flora species of conservation importance within and in the vicinity of the concerned works area. Should any new flora species of conservation importance be identified during the survey, avoidance and/or, if not practicable, similar means of protective measures should be applied to minimise potential damage on the plant(s).

3. RESULTS OF THE UPDATED VEGETATION SURVEY

3.1 Updated Vegetation Survey

Based on the survey records, flora species of conservation importance, namely *Artocarpus hypargyreus, Gnetum luofuense* and *Pavetta hongkongensis,* were recorded in plantation, shrubland and woodland that located outside the proposed cable route along Sections 5,6,8 and 9 (***Figures 2.1*** to ***2.2***). As the proposed cable route will be constructed on the existing paved road and thus the newly recorded flora species of conservation importance are not subject to any direct impact from the proposed works. Representative photos of the recorded species of conservation importance are provided in ***Annex 1a.*** A table summarising the survey result along each surveyed section is presented in ***Table 3.1.***

An individual of *Aquilaria sinensis* recorded in PP at Section 5 was not recorded during updated vegetation survey (***Figures 2.2***).

Table 3.1 Summary of Survey Result

Sections	Survey Result
5 (***Figure 2.2***)	Total of four new individuals of *Pavetta hongkongensis* were recorded in plantation, shrubland and woodland alongside the proposed cable route. A group of *Gnetum luofuense* and an individual of *Artocarpus hypargyreus* were newly recorded in woodland outside the proposed cable route. An individual of *Aquilaria sinensis* found in PP at this section was not recorded during updated vegetation survey. No flora species of conservation importance will be affected.
6 (***Figure 2.2***)	New individual of *Pavetta hongkongensis* was recorded in shrubland and a group of *Pavetta hongkongensis* were recorded in woodland. Both new records were outside the proposed cable route. No flora species of conservation importance will be affected.
8 (***Figure 2.1***)	No flora species of conservation importance was newly recorded at this Section. No flora species of conservation importance will be affected.
9 (***Figure 2.1***)	New individual of *Pavetta hongkongensis* was recorded in plantation and a group of *Pavetta hongkongensis* were recorded in woodland. Both new records were outside the proposed cable route. No flora species of conservation importance will be affected.

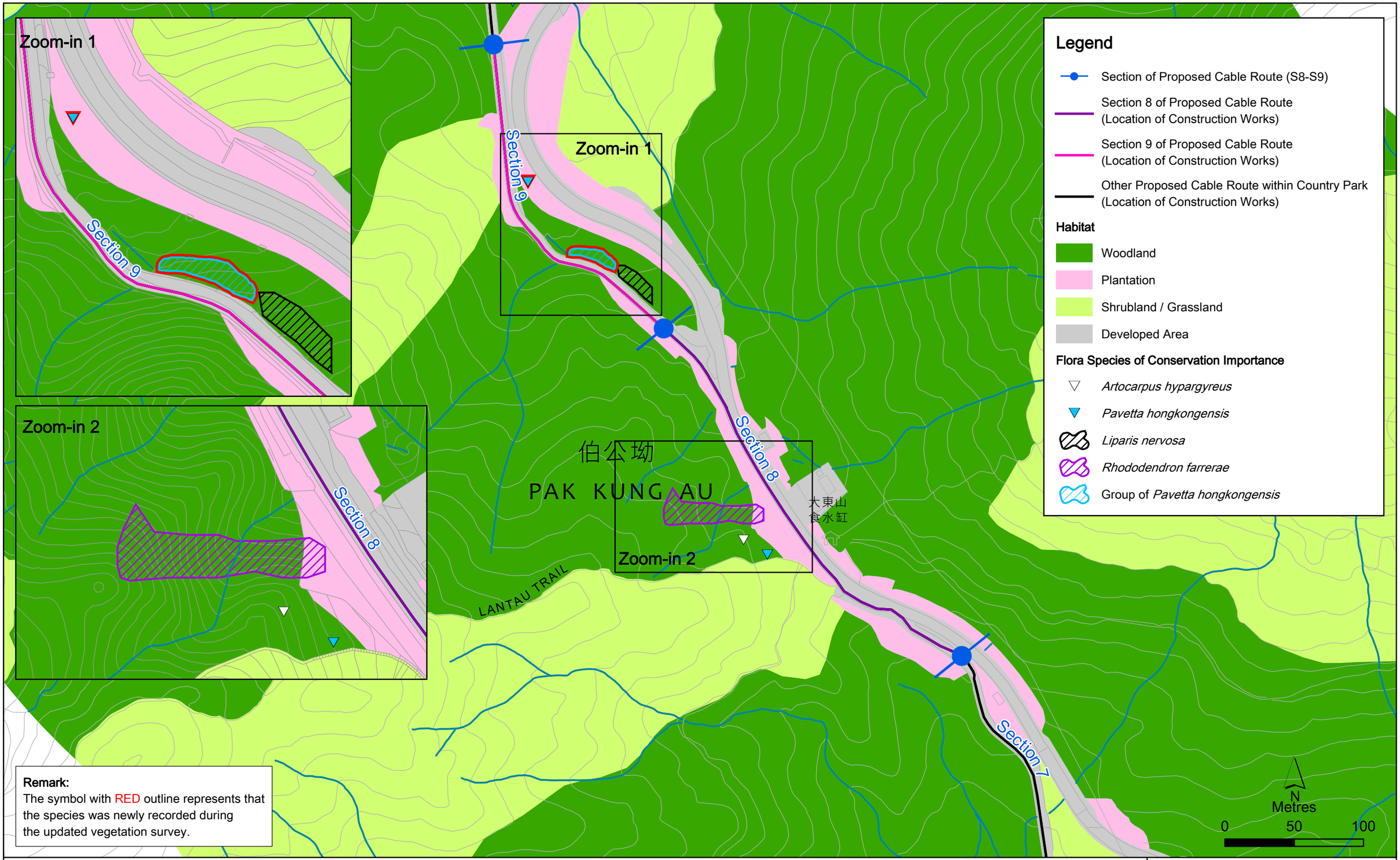


Figure 2.1

Flora Species of Conservation Importance Recorded along the Project Site

File: T:\GIS\CONTRACT\0656103\mxd\0656103_Flora_Recorded_(Section8-9).mxd
Date: 14/4/2023

Environmental Resources Management

ERM

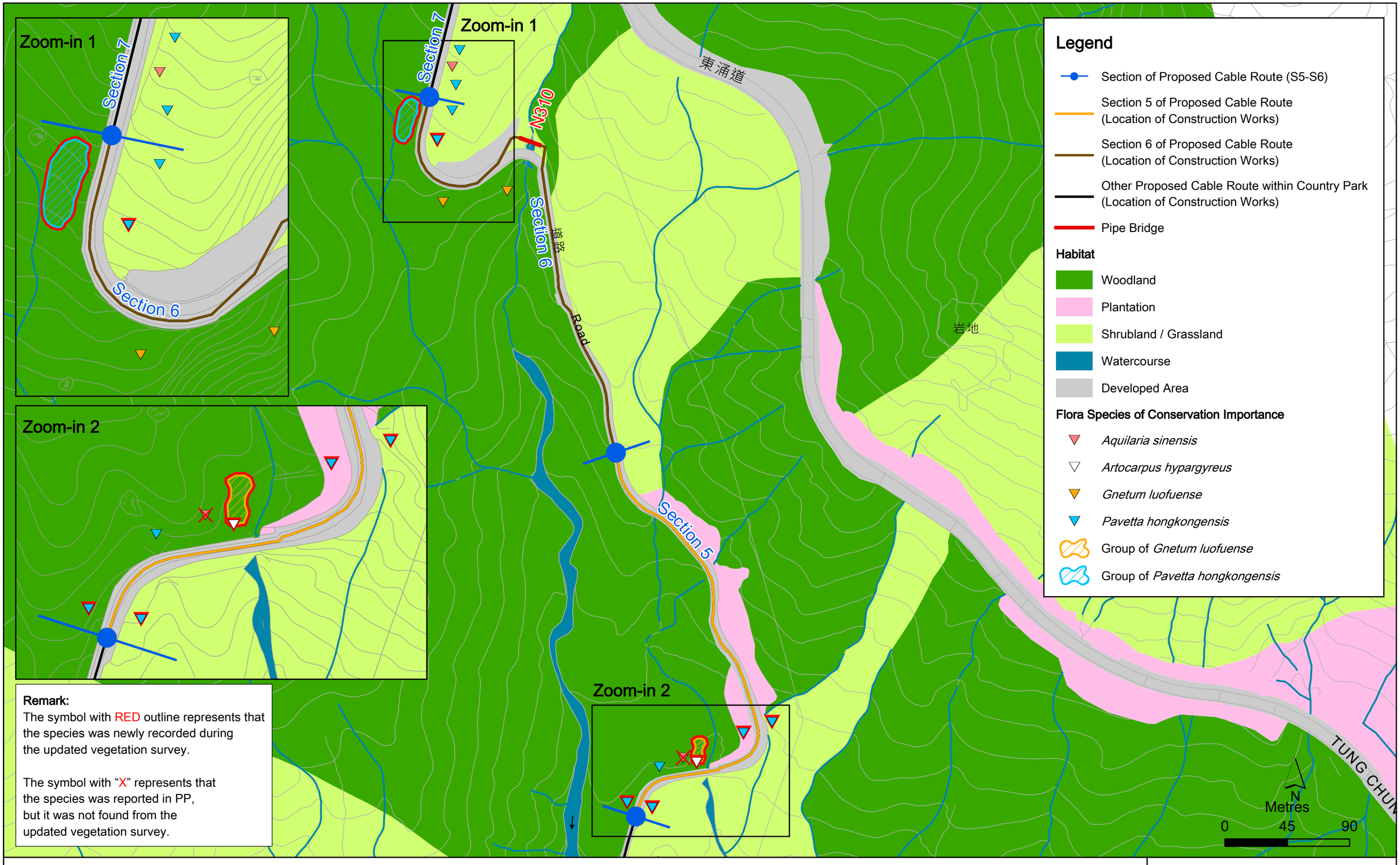


Figure 2.2

Flora Species of Conservation Importance Recorded along the Project Site

File: T:\GIS\CONTRACT\0656103\mxd\0656103_Flora_Recorded_(Section5-6).mxd
Date: 14/4/2023

Environmental Resources Management

ERM

4. REVIEW OF PROTECTIVE MEASURES

Updated vegetation survey has been conducted to further confirm if newly recorded species will be affected under this Project. It should be noted that all of the identified individuals of flora species of conservation importance are located outside the Construction Works area. Therefore, no flora species of conservation importance is expected to be affected by the Construction Works directly. Protective/precautionary measures of direct impact on flora of conservation importance is considered not necessary.

However, considering some of the flora species of conservation importance, especially *Artocarpus hypargyreus*, *Gnetum luofuense* and *Pavetta hongkongensis,* were recorded near vicinity of the proposed cable route (***Figure 2.1 and 2.2***), trampling by workers and indirect disturbance (e.g. dust caused by the construction activities) during trenching works may affect these flora species of conservation importance, if uncontrolled. In order to avoid such impacts, temporary works areas, storage areas and excessive human activities associated with the construction works should be away from these plants (if any), to avoid loss of or damage to these individuals due to the construction works. Robust fencing will be used to define the works exclusion zone by surrounding sections of works area near the vicinity of any flora species of conservation importance identified to ensure works will not encroach onto these areas. The type of robust fencing to be used, locations of robust fencing to be adopted, as well as example illustrating the robust fencing and the works exclusion zone, are shown in ***Annexes 2a-e***. The robust fencing will be also provided with warning sign to alert the workers. The fencing will be removed upon completion of works.

Apart from that, good site/ construction practice and housekeeping measures proposed in Section 5.1.5 of PP and EP condition 2.5 shall be adopted in order to minimise the potential disturbances to the surrounding natural/ semi-natural habitats (e.g. woodland and streams) and associated vegetation and wildlife arising from the project. Specific mitigation measures and good construction practices for minimising disturbances to the vegetation in the vicinity are recommended below.

- Disturbance to adjacent natural streams and the riparian woodland or shrubland/ grassland habitats will be avoided, as the construction activities will be strictly restrained in the works areas;
- Prevent runoff to be generated from the construction works. In the event of rain or at any time when rainstorms are likely to happen, exposed surfaces should be covered by tarpaulin or by other means;
- Stream bed will not be disturbed under any circumstances;
- To minimise potential impacts to the streams/watercourses at the proposed pipe bridge stream crossings, and to fauna species of conservation importance, the construction works at the stream crossing sections shall be conducted during dry season (i.e. from November to January).
- Prohibit filling and dumping to the surrounding natural habitats and especially those within the Country Park;
- Regularly check the work site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas/ Country Park, particularly any identified flora of conservation importance nearby;
- Prohibit and prevent open fires within the site boundary during in the work areas;
- Works site should be kept tidy at all times. Accumulation of construction waste and general refuse should not be allowed;
- Reinstate temporary work sites/ disturbed areas, immediately after completion of the construction works; and

- Good site practice should be enforced and effective mitigation measures are required. In particular, the Practice Note for Professional Persons (ProPECC Note PN1/94) on Construction Site Drainage provides guidelines for the handling and disposal of construction discharges. It should be followed strictly to control site runoff and wastewater generated during the construction phase.

5. IMPLEMENTATION SCHEDULE

Under EP condition 2.1, an Independent Environmental Checker (IEC) will be employed by the Permit Holder before commencement of construction of the Project. The IEC will audit the implementation of all mitigation measures recommended in the PP and required under the EP and to confirm full compliance of the mitigation measures through a monthly audit report.

An implementation schedule is presented in ***Table 5.1*** to clearly list out the mitigation measures to be implemented as specified in the PP, EP and ***Section 4***, and by whom, when, where and what requirement. All mitigation measures recommended and requirements specified in this UVSR and the implementation schedule will be fully implemented.

Table 5.1 Implementation Schedule of Recommended Mitigation Measures during Installation of Proposed Cable Route (Sections 5,6,8 and 9)

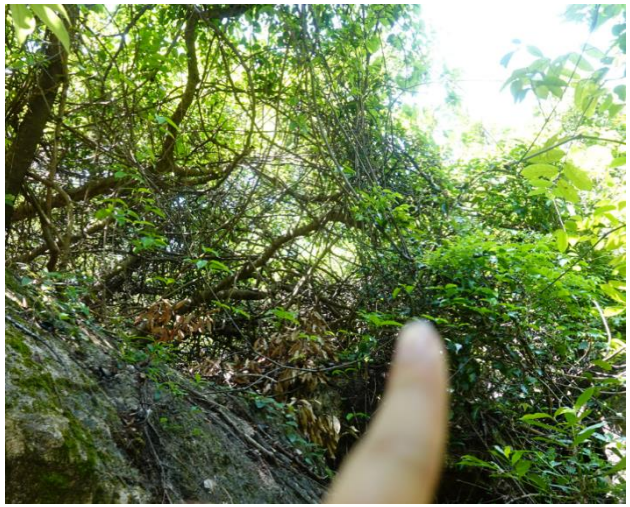
Ref.	Recommended Mitigation Measures	Objectives of the recommended measures	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
Ecological Mitigation Measures						
PP B9.1	Measure to Minimise Disturbances to Adjacent Habitats and Associated Flora of Conservation Importance					
EP condition 2.3	*Submission of Updated Vegetation Survey Report* • Before commencement of site clearance works at the concerned works areas, updated vegetation survey(s) along the proposed cable route within country park shall be conducted by the qualified ecologist appointed under EP Condition 2.2 to confirm presence of any newly colonised flora species of conservation importance within and in the vicinity of the concerned works area. The Permit Holder shall, no later than 1 month before commencement of site clearance works at the concerned works areas. • The UVSR shall provide details and findings of the updated vegetation survey(s) including details of the mitigation measures required. The UVSR shall include an implementation schedule in table form to clearly list out the mitigation measures to be implemented, the implementation party, location and timing. The mitigation measures recommended and requirements specified in the UVSR shall be fully implemented.	To avoid impact on flora species of conservation importance within and in the vicinity of the concerned works area	Project Proponent	-	No later than 1 month before commencement of site clearance works at the concerned works areas.	EP condition 2.2

Ref.	Recommended Mitigation Measures	Objectives of the recommended measures	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
Ecological Mitigation Measures						
S.5.1.5 of PP, Section 4 of this report and EP condition 2.5	*Measure to Minimise Disturbances to Adjacent Habitats and Associated Vegetation* • Temporary works areas, storage areas and excessive human activities associated with the construction works should be away from these plants (if any), to avoid loss of or damage to these individuals due to the construction works. Robust fencing will be used to define the works exclusion zone by surrounding sections of works area near the vicinity of any flora species of conservation importance identified to ensure works will not encroach onto these areas. • Disturbance to adjacent natural streams and the riparian woodland or shrubland/ grassland habitats will be avoided, as the construction activities will be strictly restrained in the works areas; • Prevent runoff to be generated from the construction works. In the event of rain or at any time when rainstorms are likely to happen, exposed surfaces should be covered by tarpaulin or by other means; • Stream bed will not be disturbed under any circumstances; • To minimise potential impacts to the streams/watercourses at the proposed pipe bridge stream crossings, and to fauna species of conservation importance, the construction works at the stream crossing sections shall be	to Minimise Disturbances to Adjacent Habitats and Associated Vegetation	Contractor	Construction Works Area	During construction	EP condition 2.5

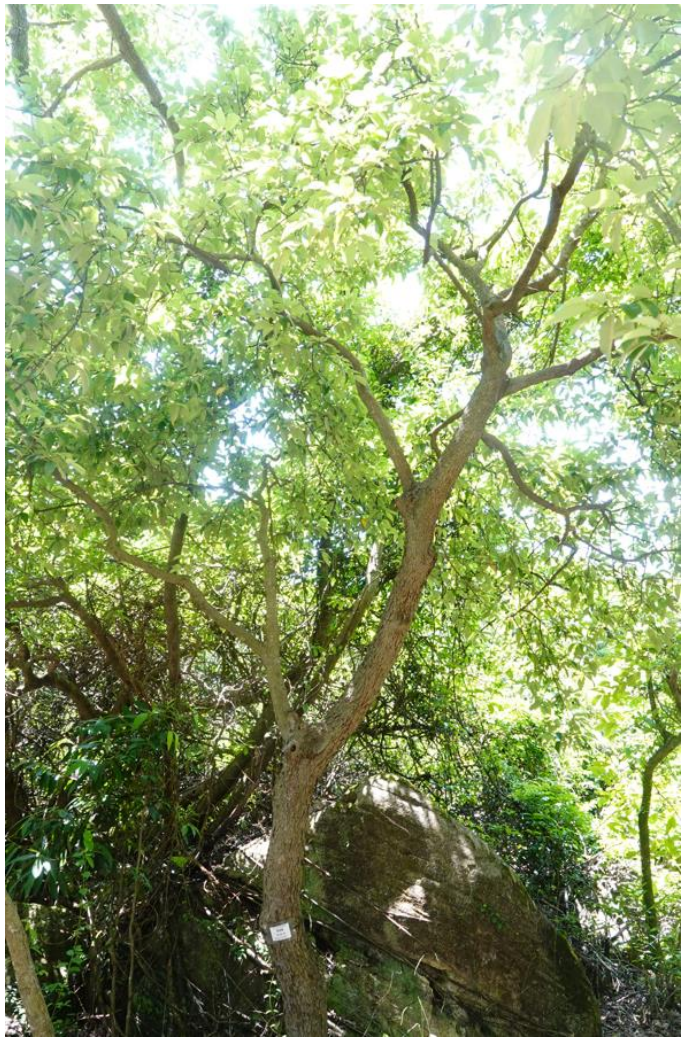
Ref.	Recommended Mitigation Measures	Objectives of the recommended measures	Implementation Parties	Location of the measure	When to implement the measure	Relevant requirements or standards for the measure to achieve
Ecological Mitigation Measures						
	conducted during dry season (i.e. from November to January). • Prohibit filling and dumping to the surrounding natural habitats and especially those within the Country Park; • Regularly check the work site boundaries to ensure that they are not breached and that no damage occurs to surrounding areas/ Country Park, particularly any identified flora of conservation importance nearby; • Prohibit and prevent open fires within the site boundary during in the work areas; • Works site should be kept tidy at all times. Accumulation of construction waste and general refuse should not be allowed; • Reinstate temporary work sites/ disturbed areas, immediately after completion of the construction works; and • Good site practice should be enforced and effective mitigation measures are required. In particular, the Practice Note for Professional Persons (ProPECC Note PN1/94) on Construction Site Drainage provides guidelines for the handling and disposal of construction discharges. It should be followed strictly to control site runoff and wastewater generated during the construction phase.					

ANNEXES

Pavetta hongkongensis



Gnetum luofuense



Artocarpus hypargyreus

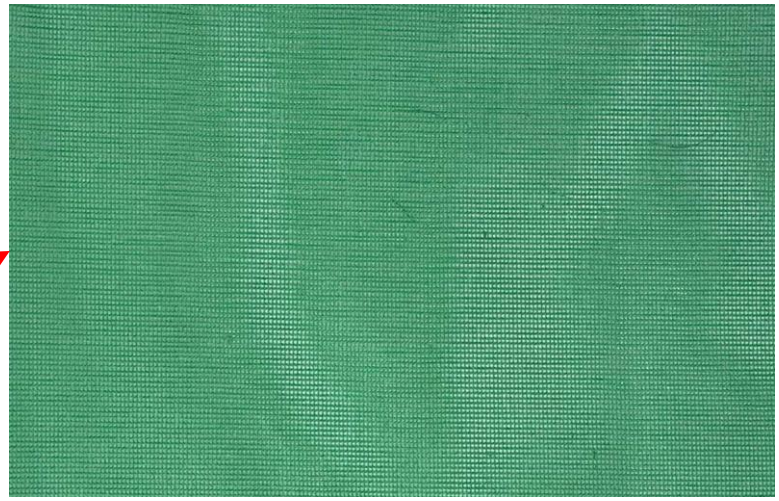
Annex 1

Representative Photos of the Newly Recorded Species of Conservation Importance

DATE: Sep 2022

Environmental Resources Management

ERM



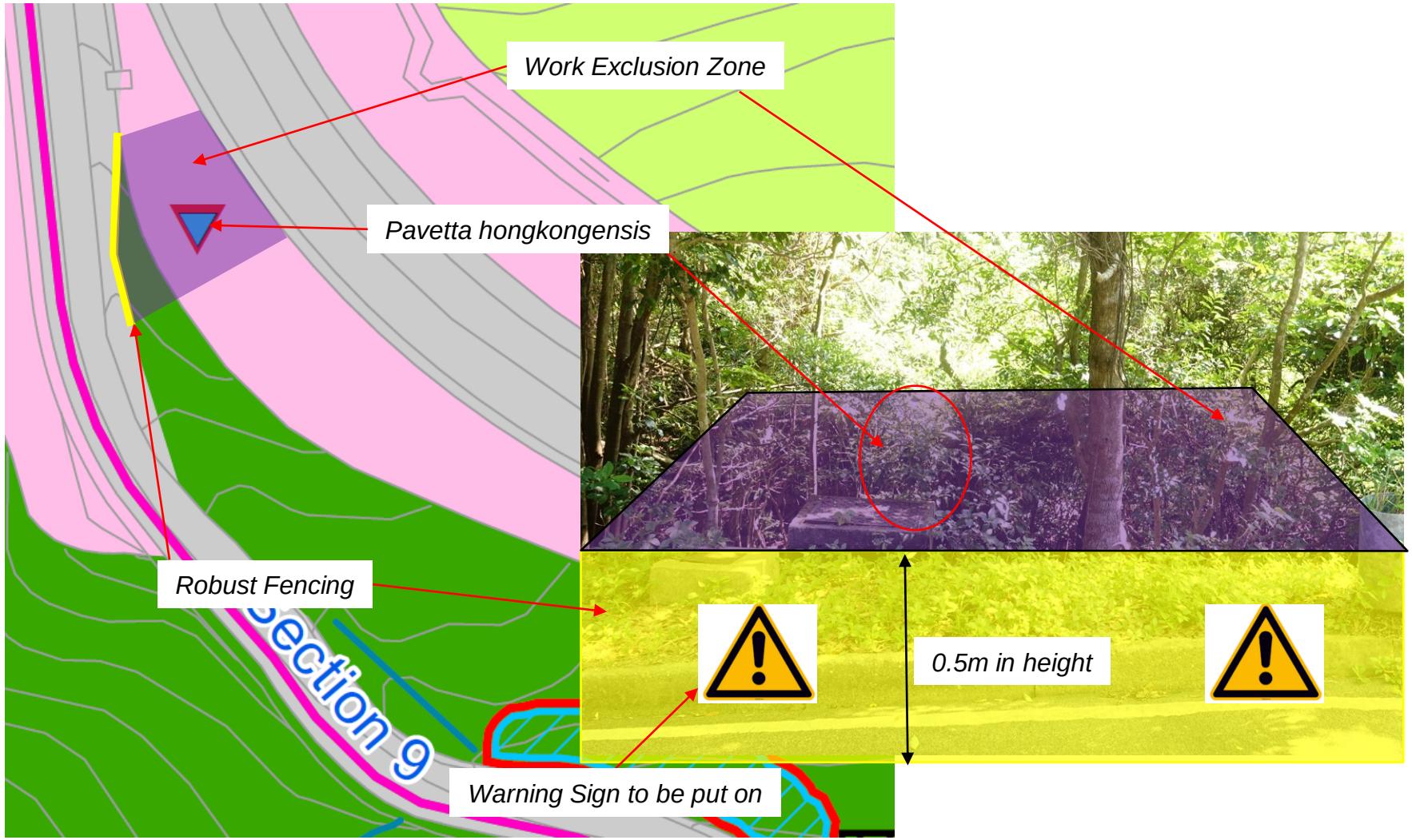
Annex 2a

Robust Fencing to be Adopted

DATE: Sep 2022

Environmental Resources Management

ERM



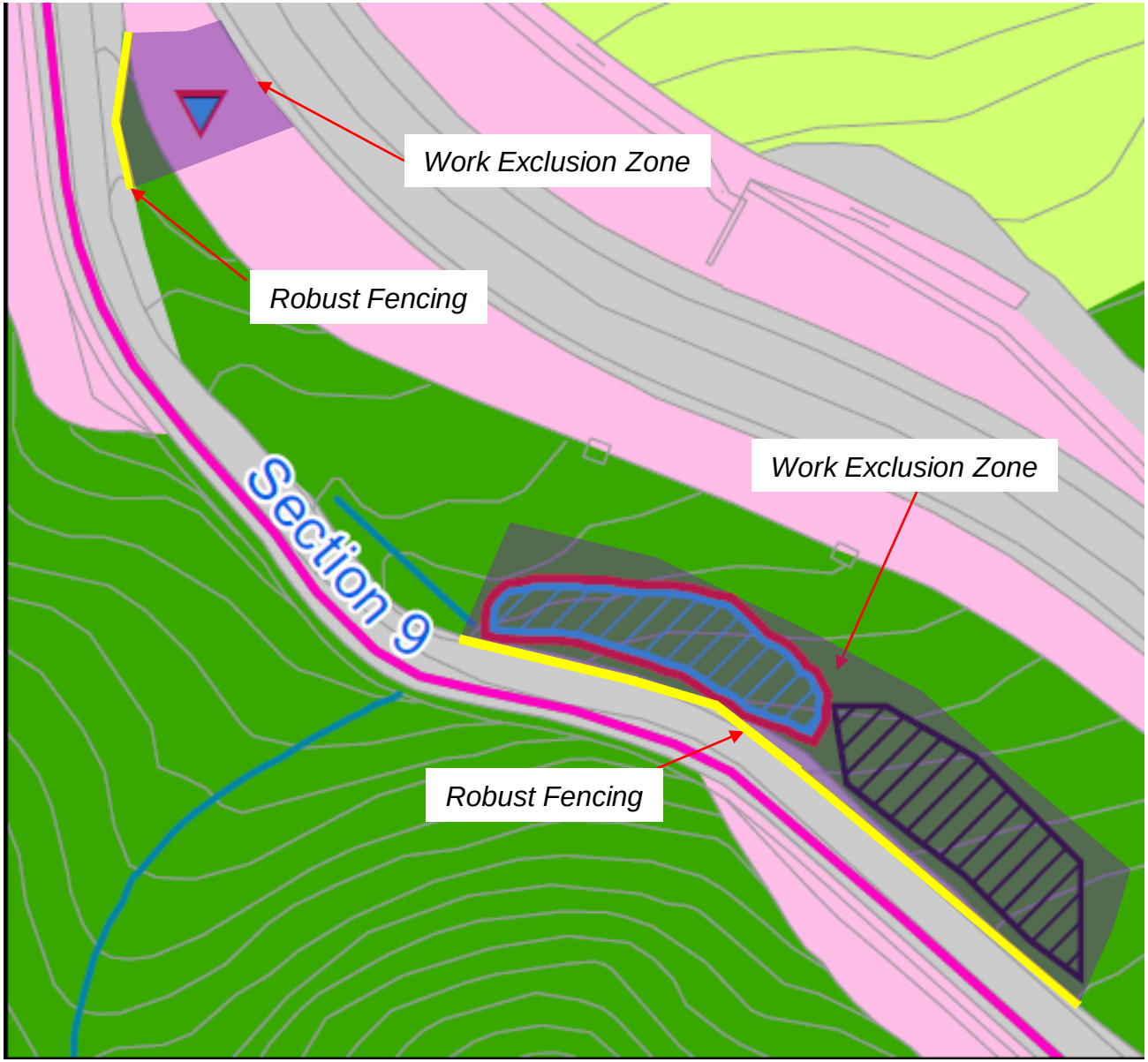
Annex 2b

Example Illustrating the Set-up of Fencing and the Work Exclusion Zone

DATE: Sep 2022

Environmental Resources Management

ERM



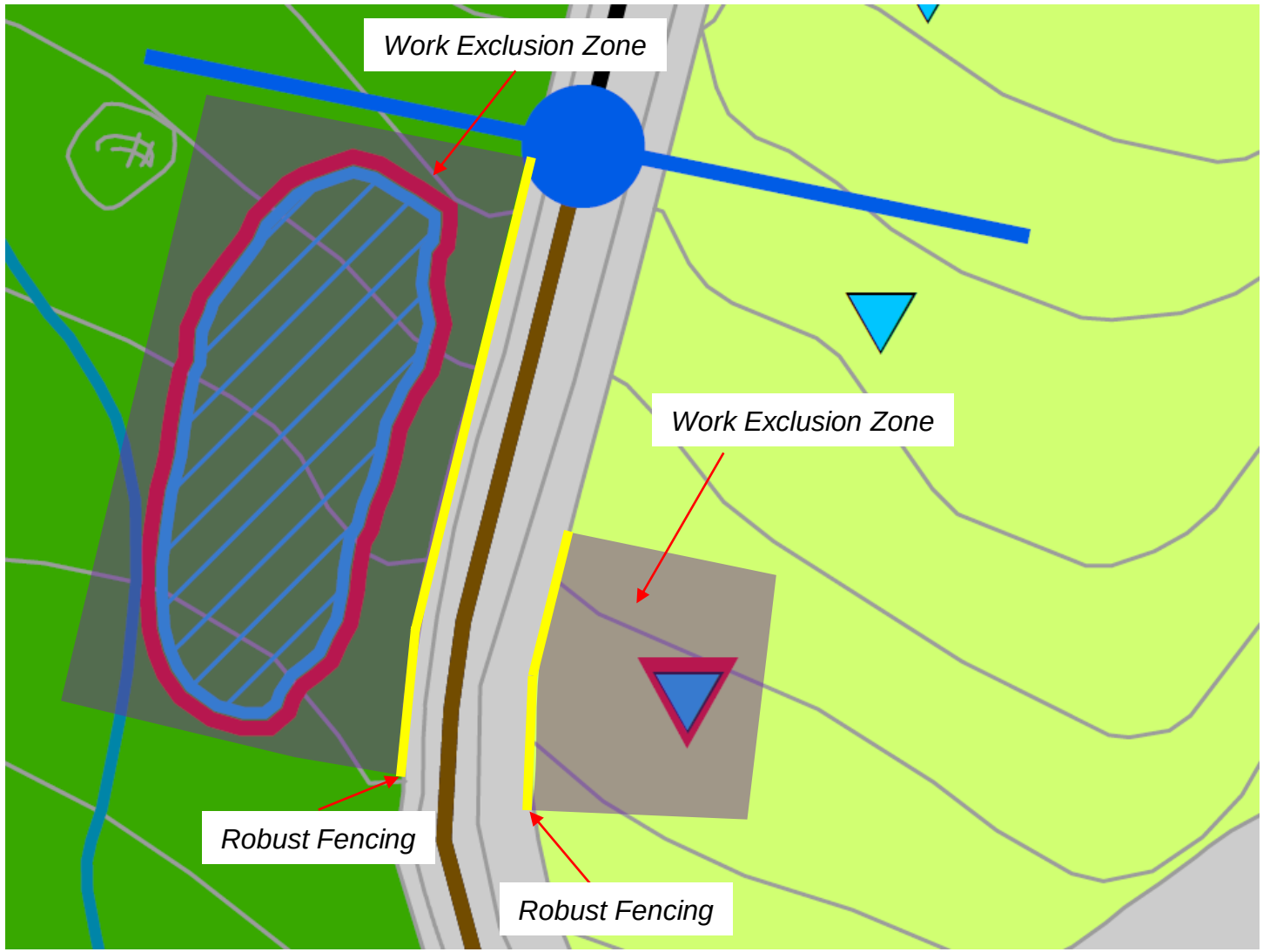
Annex 2c

Area needed to be set up of fencing and the work exclusion zone at Section 9

DATE: Sep 2022

Environmental Resources Management

ERM



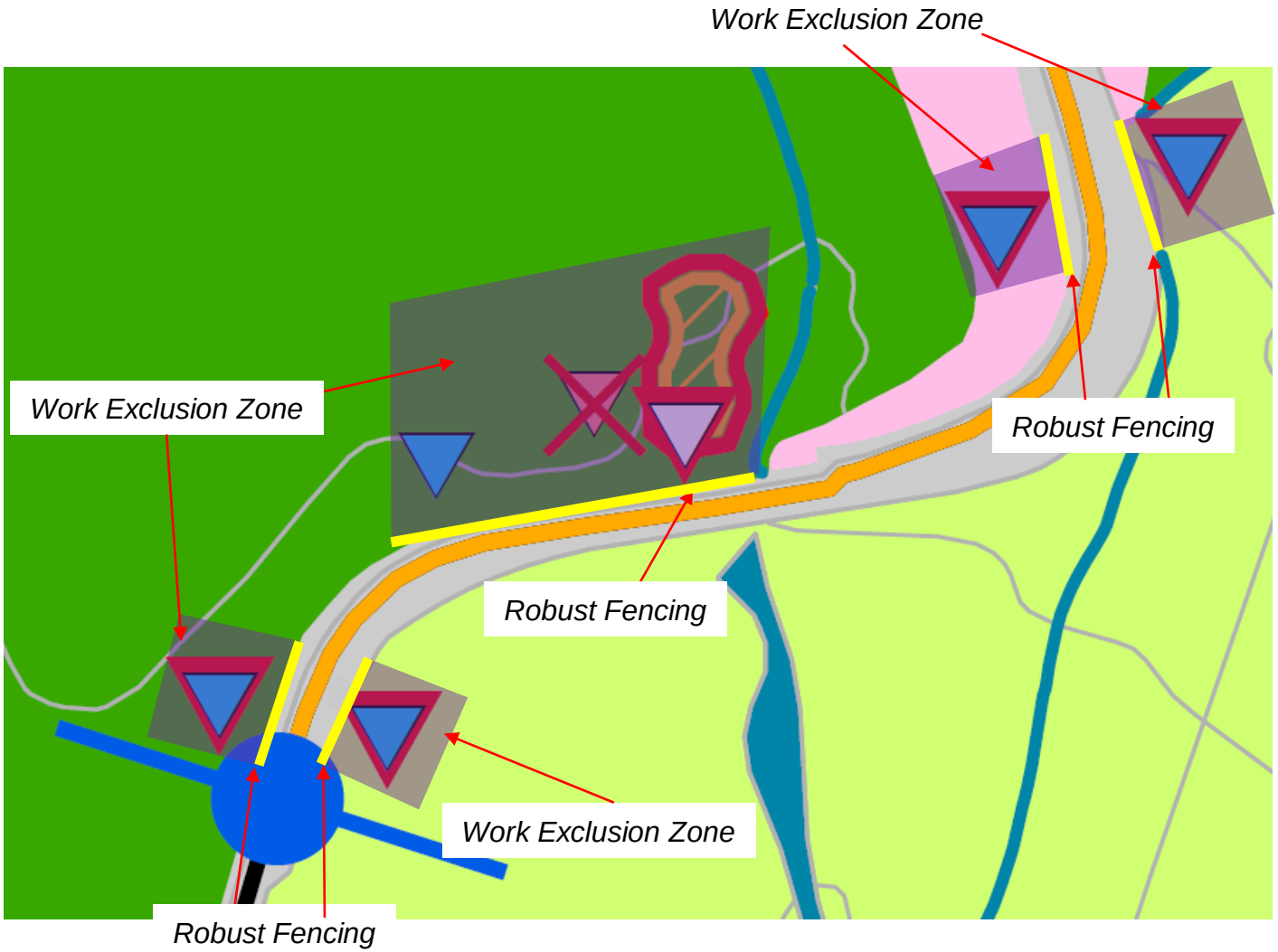
Annex 2d

Area needed to be set up of fencing and the work exclusion zone at Section 6

DATE: Sep 2022

Environmental Resources Management

ERM



Annex 2e

Area needed to be set up of fencing and the work exclusion zone at Section 5

DATE: Sep 2022

Environmental Resources Management

ERM

ANNEX 3

Curriculum Vitae of Ecologist

Mike Pang

Consultant

Mike Pang is a Consultant in ERM. He had over 7 years working experience in ecological field. He studied environmental science and obtained BSc in The University of Plymouth (United Kingdom) and MSc in The University of Hong Kong respectively. He had worked on a variety of consulting projects and responsibilities covering terrestrial ecology, marine ecology, wetland ecology and various tree survey/assessment in Hong Kong and Macau. In 2020, he was appointed as wetland specialist for the development of Long Valley Nature Park to provide professional advice and assist the contractor on wetland restoration and creation works. He is also experienced in ecological related tasks, including ecological impact assessment, ecological monitoring, BEAM Plus (SA5,SS7) and tasks required from the EM&A such as translocation of species of conservation interest

Experience: over 7 years of experiences in conducting a wide range of ecological surveys and impact assessment for main fauna groups and habitats

Email: Mike.Pang@erm.com

Education

- MSc Environmental Management, The University of Hong Kong, Dec 2017
- BSc (Hons) Environmental Science, The University of Plymouth, Dec 2014

Employment History

- Oct 2021 – Present, ERM
- Jul 2014 – Oct 2021, China Hong Kong Ecology Consultant Ltd.

Professional Affiliations and Registrations

- Certified Arborist, since Oct 2021

Languages

- Cantonese, native speaker
- Fluent English and Mandarin

Relevant Projects

CLP: DIR application for Installation of Proposed 132kV Cable Route from Cheung Sha to Tung Chung Town, 2019-Present, Terrestrial Ecologist

ERM was commissioned to support the DIR application with the environmental impact assessments, including ecology, for the proposed cable route from Cheung Sha to Tung Chung Town.

CEDD: Contract No. SLO 30/2021; No. SLO 5/2022 - Ecological Survey for Road P1 (Tai Ho - Sunny Bay Section) and, Lantau, 2021-Present, Terrestrial Ecologist

ERM was commissioned to conduct ecological terrestrial surveys covering dry and wet seasons for the survey areas at Tung Chung.

EPD: Provision of Consultancy Services for Study on Ecological Conditions and Corresponding Transplantation and Translocation for NENT Landfill Extension, 2021-Present, Environmental Team Leader

ERM was commissioned to provide services for the extension of landfill, including preparation of translocation proposal, transplanting proposal, as well as following up tree survey reports.

CLP: Planning Application under Section 16 of TPO for Excavation for 11kV Cable Laying at Tam Kon Chau Road in Mai Po, 2021-Present, Terrestrial Ecologist

ERM was commissioned to conduct an environmental assessment, including ecological impact assessment, for the proposed cable laying works in the vicinity of Mai Po to support planning application.

HKE: DIR application for Removal of 132kV Overhead Line and Pylons for B&W-Lines, 2020-Present, Terrestrial Ecologist

ERM was commissioned to support the DIR application with the environmental impact assessments, including ecology, for the removal of 132kV overhead line and pylons for B&W-lines.

HKE: DIR application for Removal of 132kV Overhead Line and Pylons for P-Line, 2020-Present, Terrestrial Ecologist

ERM was commissioned to support the DIR application with the environmental impact assessments, including ecology, for the removal of 132kV overhead line and pylons for P-Line.

CEDD: Agreement No. CE 15/2020(CE) Artificial Islands in the Central Waters 2021-Present, Terrestrial Ecologist.

ERM was commissioned to provide consultancy services for the reclamation works for artificial islands and associated construction works in Central Waters of Hong Kong. Environmental impact assessment is part of the scope under the contract.

DSD: Contract No. HATS 02/2021 – Ecological Survey for the Proposed Site of Muk Wu Sewage Pumping Station 2021-Present, Terrestrial Ecologist

ERM was commissioned to conduct an ecological impact assessment for the proposed sewage pumping station and associated sewer works at Muk Wu areas.

HyD via Aurecon: Agreement No. CE46/2018 (HY) Road Works in Connection with Proposed Housing Commercial Development on Eight Sites (Package 2A) – Feasibility Study, 2019-Present, Terrestrial Ecologist

ERM was commissioned to conduct an environmental assessment, including ecological impact assessment, for the proposed access roads for the eight proposed housing sites.

HyD: DIR application for Village Lighting at Yung Shue O, Tai Po for Village Lighting Programme 2021-Present, Terrestrial Ecologist

ERM was commissioned to support the DIR application with the environmental impact assessments, including ecology, for the proposed village lighting in Yung Shue O.

CEDD: Wetland creation - wetland and ecology consultancy services for Long Valley Nature Park, 2019-2021, Wetland Specialist

CHEC was commissioned to provide professional advices and consultancy services on wetland creation, restoration and maintaining works for Long Valley Nature Park.

DSD: Updated Fisheries Survey Report and Vegetation Report for Sewerage Works at Po Toi O, 2020-2021, Terrestrial Ecologist

CHEC was commissioned to conduct an updated fisheries impact assessment report and vegetation verification report based on the supplementary survey.

HKU: Planning Application Consultancy Services for New Academic Building on the Extension Site East of No. 3 Sassoon Road, 2018-2021, Terrestrial Ecologist

CHEC was commissioned to conduct an ecology impact assessment for the proposed new academic building at No. 3 Sassoon Road.

DSD: Potential Housing Development Site at Chung Yip Road, Yuen Long, 2019-2021, Terrestrial Ecologist

CHEC was commissioned to conduct an ecological impact assessment for the proposed housing site at Chung Yip Road.

CEDD: Baseline Survey and Ecological Survey for the Study on River Revitalisation and Flood Attenuation Facilities for Hung Shui Kiu New Development Area, 2019-2020, Terrestrial Ecologist

CHEC was commissioned to conduct ecological surveys in Hung Shui Kiu in order to baseline conditions for the areas.

AEC: Resorts World Macau at Lago 1 Nam Van, Macau Ecological Impact Assessment, 2019, Terrestrial Ecologist

CHEC was commissioned to conduct an ecology surveys including terrestrial and fisheries surveys to assess the ecological impact from the construction of Resorts World Macau at Lago 1 Nam Van in Macau.

Paul Y: Contract No. DC/2019/10 – Yuen Long Effluent Polishing Plant Main Works for Stage 1 – Eurasian Otter, Night Roost and Egret Nesting Survey, 2020-2021, Terrestrial Ecologist

CHEC was commissioned to conduct monitoring with respect to Eurasian Otter which is potentially present near the project site in Yuen Long, as well as monitoring roosting site and egretry which may be potentially impacted by the removal works.

Employment History

10/2021-Present: ERM - Consultant

07/2014-10/2021: China Hong Kong Ecology Consultant Limited (CHEC)– Assistant Consultant and Consultant