- Loss of existing trees and other vegetation due to construction works.

1.6.3 The sources of landscape impact in the operation phase for Ngau Kok Wan Portal, Tam Kon Shan Portal and Wok Tai Wan Works Area would include:

- Operation of the quarry and the ancillary activities; and
- Decommissioning of ancillary activities and conveyor belt system.

Existing Trees

1.6.4 Among the approx. 765 trees to be removed, including approx. 40 undesirable species, tree felling within the Ngau Kok Wan Portals and Tam Kon Shan Portal, accounting for 310 nos. of trees, is unavoidable as they are located at the portal locations. Subject to the detailed design by the Contractor, the rest of the trees within the Ngau Kok Wan Surface Land and Wok Tai Wan Works Area could be omitted if the Contractor eventually considers that expansions are not required to facilitate its ancillary operation. A detailed breakdown of the total number of trees is presented in **Table 5**.

Table 5 – Summary of Trees proposed to be removed by the proposed works area

Works Area	Approx. No. of trees to be removed	Remarks
Ngau Kok Wan Surface Land	399	It is optional for the Contractor. It may be omitted if the Contractor decides not to expand the surface land at Ngau Kok Wan
Ngau Kok Wan Portals	165	-
Tam Kon Shan Portal	145	-
Wok Tai Wan Works Area	56	It is optional for the Contractor. It may be omitted if the Contractor decides not to construct the Conveyor Belt System
Total	**765**	

Landscape Resources (LRs)

1.6.5 The magnitude of unmitigated impacts on LRs associated with the construction phase and operation phase of the Project was assessed and described in **Table 6**:

Table 9 – Schematic Compensatory Planting Schedule at Ma Wan within TMCA

Code	Species Name	Chinese Name	DBH (mm)	Height (m)	Crown Spread (m)	Approx. Spacing (m)	Approx. Quantity
GAR.SUB.	*Garcinia subelliptica*	菲島福木	45	3	1.5	4-5	37
POL.AXL.	*Polyspora axillaris*	大頭茶	45	3	1.5	4-5	38

1.7.10 Based on the schematic landscape design, Ngau Kok Wan Portals include approximately 45-degree cut slopes where grass hydroseeding with pit planting of shrubs in woodland mix planting will be applied. At the Tam Kon Shan Portal, with cut slopes of approximately 65 degrees, woodland mix planting will be implemented in toewall and berm planters beneath the shotcreted slopes. In such conditions, shrub and climber mixes offer better adaptability, contribute to slope greening, and enhance biodiversity. All planting will be selected to minimize maintenance requirements. Watering will be required during establishment and regular horticultural operations such as weeding, fertilizing and pruning.

1.7.11 Planting will be of several different types but generally native species will be selected in order to blend with the surrounding existing vegetation and enhance the surrounding landscape and ecological value in the long term. Exotic species will be selected for specific tasks where native species are unsuitable. The selection of plant species shall be in accordance with the Greening Master Plan (GMP) promulgated by CEDD, the Street Tree Selection Guide (STSG) and the Guiding Principles on Use of Native Plant Species in Public Works Projects issued by DEVB.

1.7.12 The off-site compensatory planting at Ma Wan shall be completed within one year of the commencement of the operation phase (excluding the establishment period). The proposed on-site compensatory planting at Ngau Kok Wan Portals and Tam Kon Shan Portal will be dependent on the programme of the site formation works. The proposed on-site compensatory planting shall be carried out after the completion of the portal construction works.

Hard Landscape Design

1.7.13 The hard landscape design process shall adopt a balanced approach considering the factors, including sustainability, aesthetic effect, compatibility with the environment, cost-effectiveness, maintenance consideration, etc.

1.7.14 Proposed Hard Landscape Works shall be selected using the following guidelines:

- Durable – utilizing long-lasting or permanent materials and finishes;
- Low maintenance – easy to clean and repair;
- Reasonable cost – reasonable cost range providing the greatest value for expense;
- Visual compatibility with existing developments and blend with existing development; and
- Recyclable and environmentally friendly materials – utilizing recyclable and environmentally friendly materials where possible.

1.7.15 A clean and contemporary hard landscape strategy shall apply to make sure the design matches the landscape theme and, at the same time, blends in with the architecture. Solid materials such as recycled aggregate pavers will be the main paving materials. Materiality is based on stone and rockworks such as stone cladding and landscape features made of stone.

1.7.16 The following hard landscape materials are proposed:

- Sensitive and aesthetically pleasing design of aboveground structures with regard to the form, material and finishes shall be incorporated to the proposed portals and entrance area in order to blend the structures with the adjacent landscape context. The

ISO A1 594mm x 841mm

Approved:

Checked:

Designer:

Project Management Initials:

826800 E

827200 E

824400 N

824000 N

REMARKS:

TREE GROUP SURVEY WAS CARRIED OUT FOR INACCESSIBLE AREAS IN WOK TAI WAN WORKS AREA AND TAM KON SHAN PORTAL WHICH ARE EITHER WITHOUT SAFE AND WALKABLE ACCESS OR WITHIN FENCED-OFF AREAS.

N

+5mPD

NGAU KOK WAN SURFACE LAND

NGAU KOK WAN PORTAL

TSING YI NORTH COASTAL ROAD

+6mPD

TAM KON SHAN PORTAL

TAM KON SHAN ROAD

YAU KOM TAU

NORTHWEST TSING YI INTERCHANGE

WOK TAI WAN

WOK TAI WAN WORKS AREA

TSING LONG HIGHWAY

TING KAU BRIDGE

Seawall

HWM

Pier

Jetty

Cement Works

Tank

Shipyard

Viewing Platform

TUNG CHUNG LINK

LEGEND:

- MAIN ACCESS TUNNEL (UNDERGROUND)
- ACCESS ROAD
- INDICATIVE EXTENT OF PROPOSED CAVERN (UNDERGROUND)
- PROJECT BOUNDARY
- TREE SURVEY EXTENT - INDIVIDUAL
- TREE SURVEY EXTENT - GROUP
- +5mPD — PROPOSED FORMATION LEVEL
- TREE GROUP TO BE REMOVED
- TREE GROUP TO BE RETAINED
- TREE TO BE REMOVED
- TREE TO BE RETAINED

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PROJECT
項目

UNDERGROUND QUARRYING AT TSING YI NORTH – INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
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ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容/摘要	CHK. 核核

STATUS
階段

SCALE 比例	DIMENSION UNIT 尺寸單位
A3 1 : 4000	METRES

KEY PLAN
索引圖

PROJECT NO. 項目編號	AGREEMENT NO. 協議編號
60733229	CE 79/2023 (GE)

SHEET TITLE
圖紙名稱

TREE TREATMENT PLAN

SHEET NUMBER
圖紙編號

60733229/LIA/FIGURE 3