

Hamilton Environmental Services
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FLORA AND FAUNA ASSESSMENT AND NET LOSS REPORTING – HOT PLATE DRIVE HOTHAM HEIGHTS



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Flora and Fauna Assessment and Net Loss Reporting – Hot Plate Drive, Hotham Heights

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Version 2, 23rd March 2021

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Cover Photo: Looking south through the centre of the proposed development site.

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1. INTRODUCTION

In March 2019, HES was initially engaged by Incore Developments, through Mountain Planning, to undertake a flora and fauna assessment and determine the likely native vegetation loss across the property with a proposed chalet development, and prepare a Net Loss Report.

Dr. Steve Hamilton undertook the field evaluation of the site on the 3rd April 2019.

Now a new development (referred to as Hotham Houses) is proposed for the Hot Plate Drive leasehold sites by Magnus Floden.

Since the initial Reporting was completed by the previous developer, the new project proposes three freestanding residences with a reduced footprint, and this report outlines the reduced Net Loss of native vegetation proposed, the process followed in terms of native vegetation loss avoidance and minimisation, and arrangements put in place to meet the offset requirements.

2. BACKGROUND

2.1 Site Location and Description

The assessed area is found 200 m west of the Mount Hotham Resort Management Centre (VicRoads 50 D9; see Fig. 2-1) bordered by an elevated Hot Plate Drive (relative to the leasehold property) on the southern boundary, Playground Trail on the northern boundary, and existing chalets on both the western and eastern boundaries (Fig. 2-2).

It is proposed that the roughly rectangular proposed development area of 0.070 ha (698 m²) and maximum dimensions of approximately 39 m east-west and 24 m north-south, be developed into four freestanding residences; there is a slice of the leasehold land on the western side of the proposed development that is part of another proposed development (Fig. 2-2).

The Site Survey Plan for the proposed development is shown in Fig. 2-3.

While the proposed development area has small areas that have been cleared of the tree canopy (Snow Gum; *Eucalyptus pauciflora*) where underground infrastructure has been established or which are rough tracks, the majority of the area retains a mixed-age indigenous tree canopy and dominant indigenous understorey dominated by a range of shrub and herbaceous species (Fig. 2-2). The small cleared areas are also predominantly indigenous in composition at ground level.

2.2 Bioregion and Ecological Vegetation Class

The assessed clearance area is within the Victorian Alps Bioregion (Department of Environment, Land, Water and Planning [DELWP] 2021a).

In Victoria, DELWP have developed an on-line mapping layer that categorises pre-1750 and 2005 natural vegetation communities into Ecological Vegetation Classes (EVCs), and have developed EVC Benchmark Statements for each of these EVCs that represent the best known example of this EVC.

Pre-1750 Ecological Vegetation Class (EVC) mapping suggests that prior to European settlement, the vegetation of the property would have wholly been Sub-alpine Woodland EVC (EVC 43; BCS Endangered (DELWP 2021a and 2021b)); the area remains substantially vegetated and the species composition and structure indicates that this EVC allocation is correct.

The EVC Benchmark statement for this EVC can be found in Appendix C.

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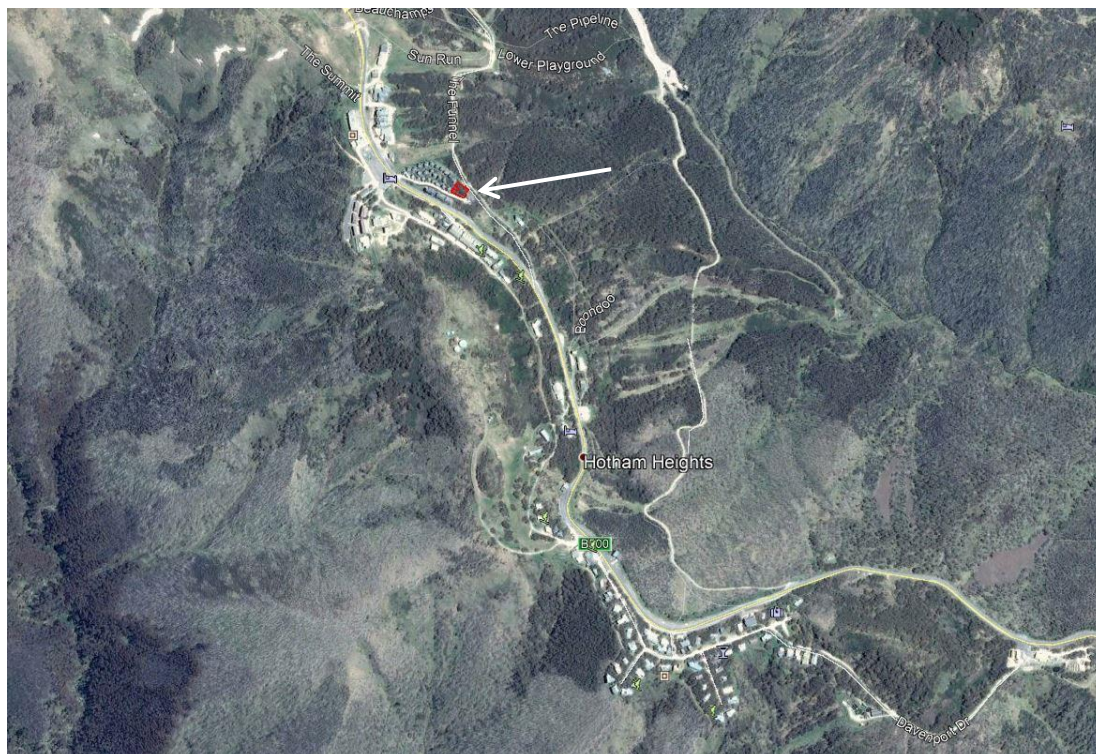


Figure 2-1 Aerial image of the location of the assessed site within the district, with the assessed area outlined with a solid red border (Image from Google Earth 2019).

2.3 Land Tenure and Planning Scheme

The proposed development area is part of one land parcel (Allotment 8A Section B within the Parish of Hotham).

The parcel is within the Mount Hotham Alpine Resort, and is wholly *Comprehensive Development Zone* and *Comprehensive Development Zone - Schedule 1*, and there is a *Bushfire Management Overlay* and *Bushfire Management Overlay – Schedule 1*, and an *Erosion Management Overlay* and *Erosion Management Overlay – Schedule 1* across the whole parcel (DELWP 2021d).

3. METHOD

3.1 Desktop Review

The following desktop information was gathered on the various land parcels assessed before field evaluation:

- Aerial imagery;
- Planning information;
- Both pre-1750 and current EVC mapping;
- Relevant EVC benchmark documents;

- Threatened species sightings within a 10 km radius of the site using the Victorian Biodiversity Atlas (DELWP 2021c), NatureKit (DELWP 2021b), and the Matters of National Environmental Significance search tool.

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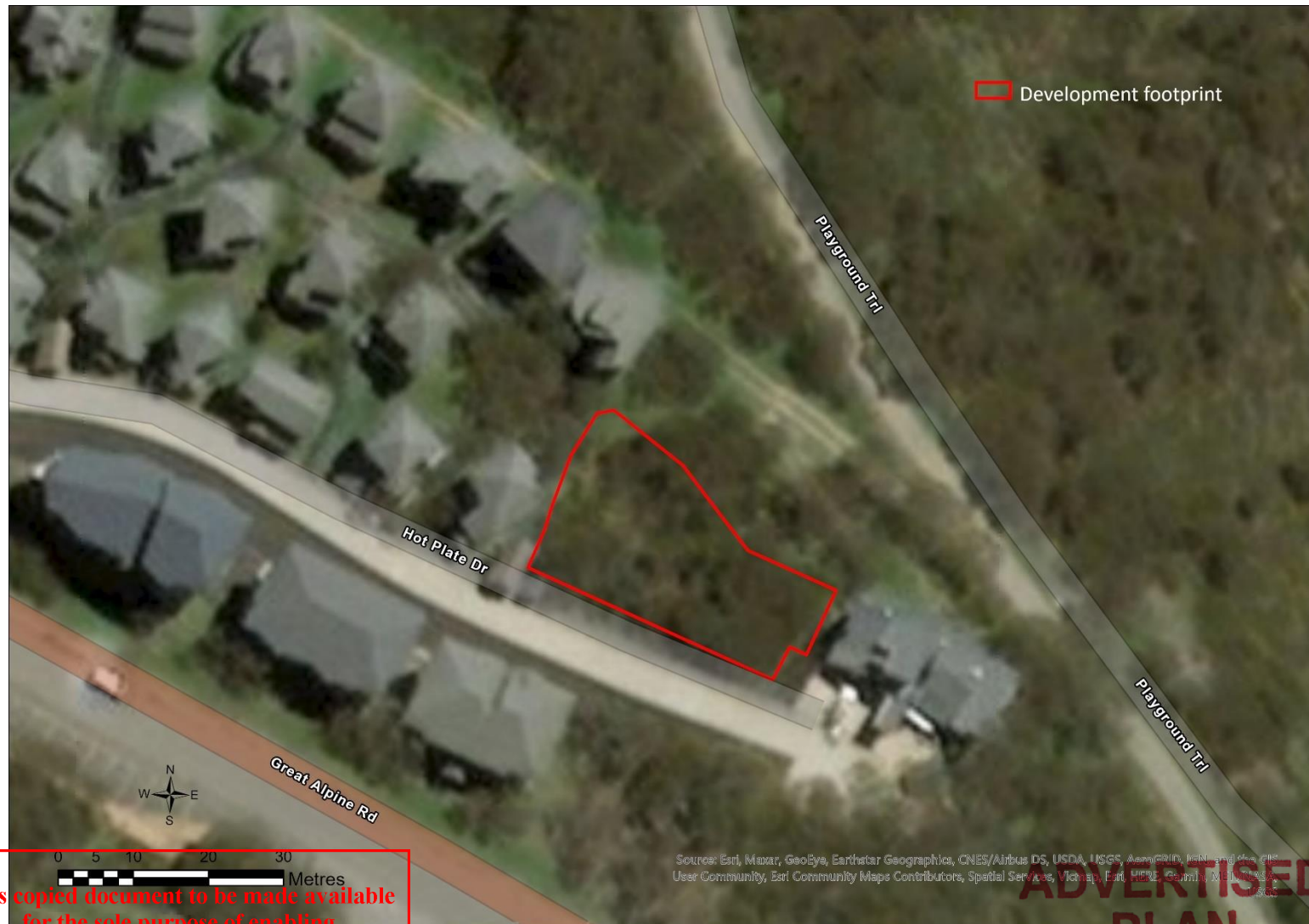
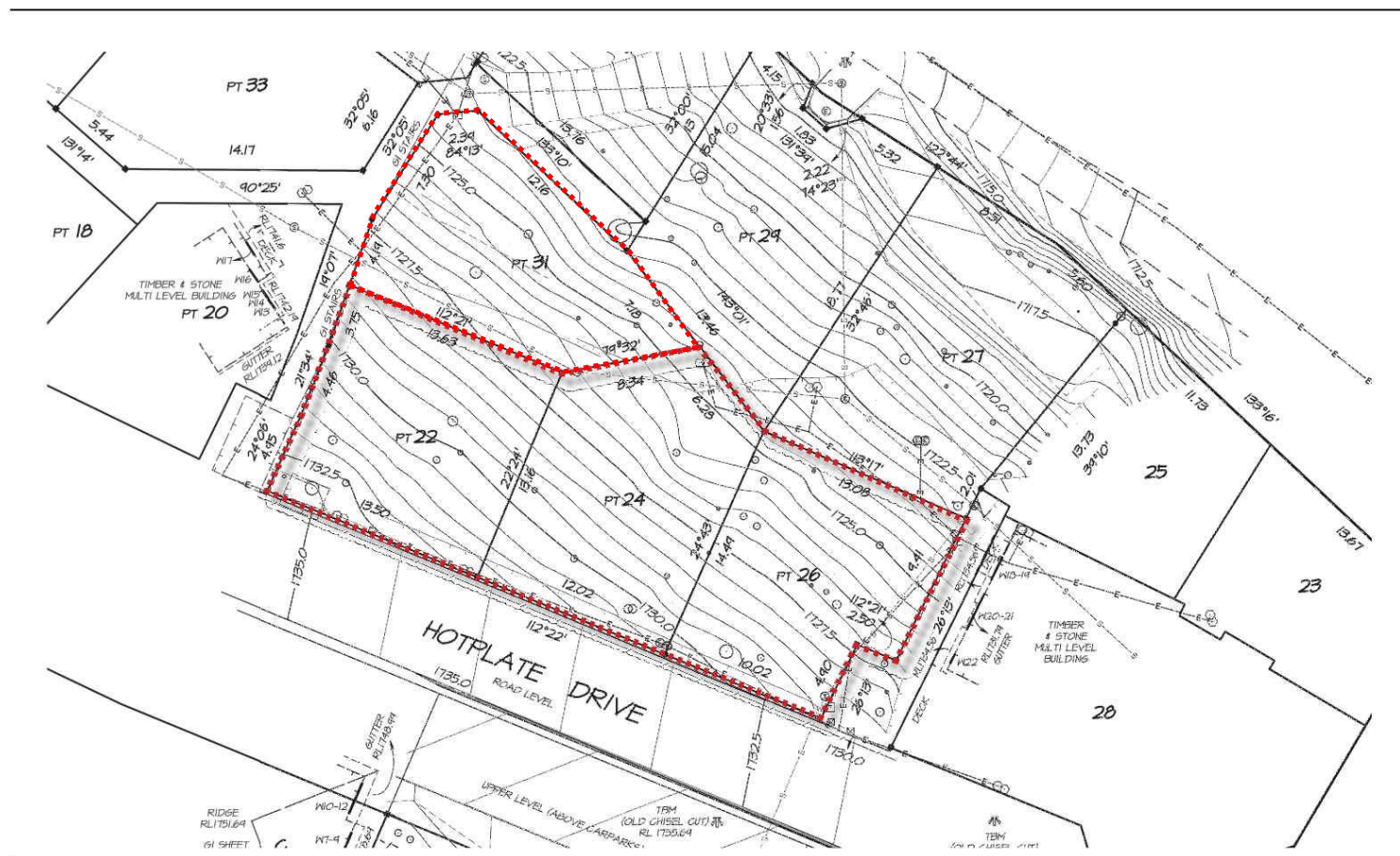


Figure 2-2 Aerial imagery of the assessed leasehold land on Hot Plate Drive, with the proposed development area outlined with a solid red line

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Figure 2-3

Site Survey Plan for Hotham Houses Mount Hotham – proposed development areas outlined in red (Grant Amon Architects, dated 18th December 2020)

PRELIMINARY

Project Name
Hotham Houses

Client
Magnus Floden, George, Stuart
Project Address
**Lot 22, 24 & 26 Hotplate Drive
Hotham**

GRANT AMON
ARCHITECTS PTY LTD
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E info@grantamon.com



Drawing Name
Site Survey Plan

Drawn By **TT** Revision
Scale **1:200 on A3** Date **18/12/20**

Drawing Issue
Sketch Design

Sheet No. **2000** of **2000**

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Following assessments, derived flora and fauna lists were checked against reference lists of rare and threatened species in Victoria (DSE 2009 and 2013, and Department of Environment and Primary Industries [DEPI] 2014).

3.2 Site Assessment

On the 3rd April 2019, Dr. Steve Hamilton visited the site to undertake the assessment. On the day of observation, air temperatures were between 5 and 9°C, the sky was mostly clear, and the winds were light (Bureau of Meteorology 2019).

The freehold land was traversed by foot, with continuous active searching for flora and fauna conducted over a total period of 1 ½ hours, with the following assessments undertaken:

- Compilation of a detailed flora species list, by zone (native vegetation *Patch*), including the attribution of cover/abundance to each species in each zone;
- Casual sightings of fauna noted;
- The individual recording of any significant indigenous trees (i.e. > 3 m in height) across the site, including their geo-location by GPS, diameter at breast height (dbh), their health, and presence of hollows. The dbh of multi-trunk trees was determined using the square root of the sum of squares of all stems;
- A *Patch* of native vegetation is either: an area of vegetation where at least 25 % of the total perennial understorey plant cover is native, or any area with three or more native canopy trees where the drip line of each tree touches the drip line of at least one other tree, forming a continuous canopy, or any mapped wetland included in the current wetlands map, available in DELWP systems and tools and these areas were mapped (DELWP 2017);
- A *Scattered Tree* is a native canopy tree that does not form part of a *Patch* (DELWP 2017);
- A Vegetation Quality Assessment was completed if any *Patches* were defined in order to determine the potential Net Loss under the *2017 Native Vegetation Removal Guidelines*;
- Recording and location of any specific instances related to land management, such as noxious weed or pest animal infestations, etc.;
- Digital images were taken from geo-located points.

Sixty eight (68) images were taken during the assessment.

3.3 Taxonomy

3.3.1 Flora

Specimens were identified using the *Flora of Victoria* (Walsh and Entwisle 1994, 1996 and 1999), and *Flora of Victoria On-line* (Royal Botanic Gardens Victoria 2019).

3.3.2 Fauna

A list of fauna present across the sites was compiled, with the nomenclature based variously on the compilations of Herre et al. (1991), Menkhurst (1995), Cogger (1996) and Simpson and Day (1998), and using Triggs (1996) for identification using indirect methods, such as the presence of scats or tracks.

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4. FLORA AND FAUNA ASSESSMENT

4.1 Vegetation

The inventory of species noted across the area of evaluation is recorded in Appendix A.

A total of 25 vascular plant species were recorded across the proposed development area; 7 of these species were introduced and 18 indigenous (Appendix A).



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Views of the proposed development area: looking along Hot Plate Drive with the edge of the assessed area on the right (top left), the northern section of the site seen from an elevated walkway on the western side (top right), looking west across the northern section (middle left), looking downslope through the centre of the site (middle right), looking through the site from the NW corner (bottom left), and looking through the site from the NE corner (bottom right).

There were four rare or threatened species observed at the site (all categorised as *Rare*, DEPI 2014): Alpine Wattle, Silver Snow-daisy, Dusty Daisy-bush, Alpine Bootlace Bush; Soft Crane’s-bill (categorised as *Data Deficient*) was also probably found on the site, but a lack of floral material precluded definitive identification. None of these species are listed on the ‘Protected Flora List’ of the *Flora and Fauna Guarantee Act 1988*.

Victorian Biodiversity Atlas, NatureKit and Matters of National Environmental Significance searches revealed that there were records of seventy one (71) threatened flora recorded or likely to occur within a 10 km radius of the proposed development area; likelihood analysis based on the available habitat of the assessed area, proximity of records of the species and their habitat preferences, indicates that beyond the 5 threatened species observed on-site, there were a further 9 species – Mueller’s Bent, Lilac Bitter-cress, Soft Crane’s-bill, Sticky Fleabane, Long Podolepis, Eicher’s Buttercup, Snowfield Groundsel, Mountain Dandelion and Austral Toadflax - that may be present at the proposed development site, but were not observed. Of the 57 remaining species, none are likely to be found on-site given: (a), the lack of record of the species locally or regionally in recent times, and (b), the lack of suitability of the habitat of the assessed site (DELWP 2021c, Department of Agriculture, Water and Environment [DAWE] 2021; Appendix E).

As indicated previously, while the proposed development area has small areas that have been cleared of the tree canopy (Snow Gum) where underground infrastructure has been established or which are rough tracks, the majority of the area retains a mixed-age indigenous canopy and a dominant indigenous understorey dominated by a range of shrub and herbaceous species, such as Alpine Wattle, Leafy Bossiaea, Mountain Pepper, Dusty Daisy-bush, Cascade Everlasting, Alpine Shaggy-pea, Fireweed Groundsel, Bidgee-widgee, Mountain Woodruff, Silver Snow-daisy, Button Everlasting, Soft Snow-grass, Common Trigger-plant and Mother Shield-fern (60 % projective foliage cover; Appendix A). There were some introduced plants found in these areas of canopy cover, such as Cocksfoot, Yarrow and Timothy Grass, but these were in low abundance (5 % projective foliage cover; Appendix A).

The small cleared areas are also predominantly indigenous at ground level in composition, notably with species such as Soft Snow-grass, Soft Crane’s-bill and some low-growing shrubs (from those species listed above; 30 % projective foliage cover); introduced species were more common in these cleared areas, with species such as Sheep Sorrel, Cat’s Ear, Spear Thistle, Soft Brome and Timothy Grass more common (30 % projective foliage cover; Appendix A).

4.2 Fauna

There were only 2 species of fauna observed across the assessed site – Australian Raven and Pied Currawong. Details of those species noted or inferred over the assessment period are detailed in Appendix B.

There were no rare or threatened species observed at the site at this time (DSE 2008 and 2013).

This lack of observed species diversity at that time was not surprising, given that:

- there was a limited survey time;
- the timing of observation (in early autumn) is clearly not conducive to observation of many fauna that utilise alpine regions seasonally in spring/summer;
- the prevailing environmental conditions were typical conditions for early autumn in the alpine areas, and were not conducive to observation of many fauna;
- the small size of the assessed site given the extent of development surrounding it.

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Notwithstanding the location of the proposed development area next to Hot Plate Drive and existing chalet complexes to the north-west and south-east, the site maintains high landscape connectivity to remnant native vegetation within the resort area.

Victorian Wildlife Atlas, NatureKit and Matters of National Environmental Significance searches revealed fourteen (14) significant fauna species previously recorded within 5 km of the proposed development site (excluding aquatic species; DELWP 2021c, DAWE 2021; Appendix E). Likelihood analysis reveals that twelve of these species are unlikely to because of the habitat preferences of the species, the assessed habitat characteristics of the site, landscape connectivity of the site, known records for the species, and the proximity and the timing of records. There were two species that were considered likely to utilise the site - Broad-toothed Rat and Mountain Pygmy-possum; there are recent records for both species in very close proximity to the site, and the site does provide suitable primary habitat for the Broad-toothed Rat, and secondary habitat for the Mountain Pygmy-possum (Appendix E).

4.3 EPBC listed threatened communities and species

Matters of National Environmental Significance searching also identified that the nationally endangered *Alpine Sphagnum Bogs and Associated* community, and the critically endangered *White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland* community could occur within a 10 km radius of the sites (DoEE 2019). These EPBC Act-listed threatened communities do not occur on the assessed site, which is wholly a modified Snow Gum (*Eucalyptus pauciflora*) woodland community.

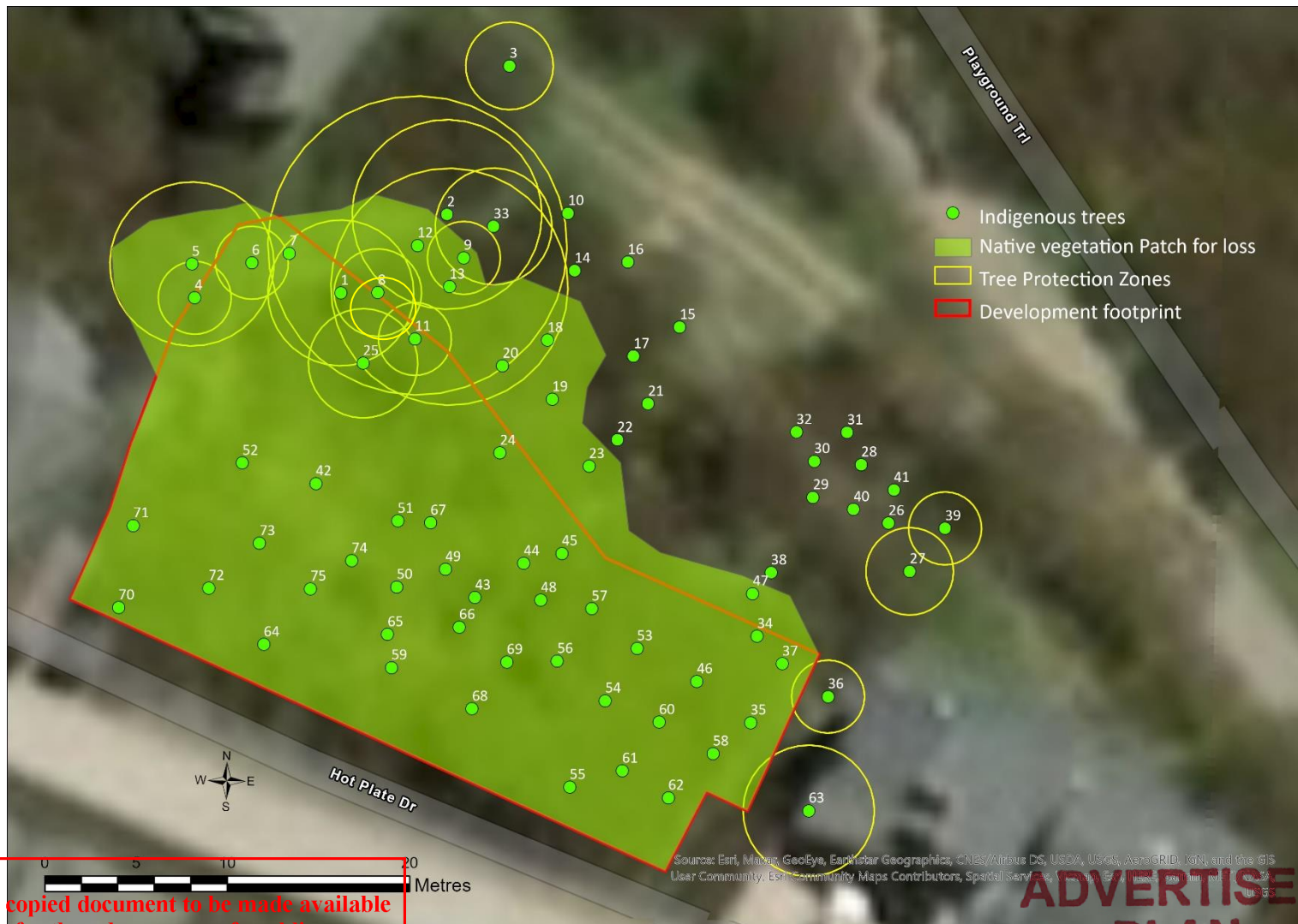
There are 7 EPBC-listed threatened flora determined by Matters of National Environmental Significance searches or likely to occur within a 10 km radius of the proposed development area – Shining Cudweed, Thick Eyebright, Kellera, Cobungra Leek-orchid, Blue-tongued Orchid, Austral Toadflax and Curtis' Colobanth (DAWE 2021; Appendix E). There are no records for any of these species within 10 km of the proposed development site (DELWP 2021c, Appendix E); however, while the available habitat of the assessed area does not match the habitat preferences for six of these seven species, the site is an appropriate habitat for the Austral Toadflax, and in the absence of a more detailed investigation, the species may be present at the site (Sec. 4.1).

As indicated in Sec. 4.2, there are two EPBC-listed threatened fauna species that are considered likely to utilise the proposed development site - Broad-toothed Rat and Mountain Pygmy-possum; there are recent records for both species in very close proximity to the site, and the site does provide suitable primary habitat for the Broad-toothed Rat, and secondary habitat for the Mountain Pygmy-possum. In addition, there are also records for the endangered Alpine She-oak Skink within 350 m of the proposed development site; however, the proposed development site is not an open tussocky grassland, which is the preferred habitat of the species, and so its utilisation of the site is less likely.

A pre-referral meeting request regarding the proposed development with the Commonwealth Department of Environment and Energy was made at the time of the completion of the initial report for the previous proposal (request made in May 2019), and while the Department acknowledged the receipt of this request, there has been no further response from them.

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This copied document to be made available for the sole purpose of enabling aerial imagery of the assessed leasehold land on Hot Plate Drive, showing the proposed development footprint and location of assessed trees; trees are numbered according to the table in Appendix D (Image from DSE 2006). The document must not be used for any purpose which may breach any copyright

Figure 4-1 Aerial imagery of the assessed leasehold land on Hot Plate Drive, showing the proposed development footprint and location of assessed trees; trees are numbered according to the table in Appendix D (Image from DSE 2006).

4.4 Significant Trees

There were 76 trees > 3 m in height separately assessed across the proposed development area, and the details of these trees can be seen in Appendix D.

All of these trees were Snow Gums (Appendix D).

The location of all assessed trees can be seen in Fig. 4-1.

Construction projects that involve earthworks or soil disturbance can cause indirect losses of native vegetation that are retained during construction due to root damage and soil modification within the zone where roots occur. Of particular concern is the longer-term impact of soil compaction and excavation (e.g. trenching for pipelines) close to trees and the effects of this on immediate and longer-term tree health. The DSE (now DELWP) has provided guidance and clarity on this issue, and has defined an acceptable distance for tree retention in order to prevent indirect losses of native vegetation during and after construction activities as a guiding principle. These designated *Tree Protection Zones* (TPZs) should be implemented for the duration of construction activities (DSE 2011) as part of the development conditions. A TPZ is a specific area above and below the ground, with a radius 12 times the Diameter at Breast Height (dbh; 1.3 m) of any individual tree; the TPZ of trees should be no less than 2 m or greater than 15 m, and it is recommended that physical barriers be erected to delineate the TPZ during construction activities (DSE 2011). Should a development impinge on the TPZ area for > 10 % of its area, the tree shall be considered a loss, and will have to be offset (DSE 2011).

Under the *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017) there are two categories of native vegetation: *Scattered Trees* or *Patches*.

A *Patch* of native vegetation is either: an area of vegetation where at least 25 % of the total perennial understorey plant cover is native, or any area with three or more native canopy trees where the drip line of each tree touches the drip line of at least one other tree, forming a continuous canopy, or any mapped wetland included in the current wetlands map, available in DELWP systems and tools and these areas were mapped (DELWP 2017).

A *Scattered Tree* is a native canopy tree that does not form part of a *Patch* (DELWP 2017).

Of the 76 trees assessed, Trees 2, 3, 10, 14 to 17, 21, 22, 26 to 32, 33, 36, 38, 39, 40, 41 and 63 (23 trees) are outside of the proposed development area and their TPZs are not impinged by > 10 % and these will be retained; it should be noted that Trees 2, 3, 9, 12, 13 and 33 are within an adjacent Lot with a different landholder where development consent has been provided, and will be cleared (see Fig. 4-1).

There are no proposed *Scattered Tree* losses.

Therefore, of the assessed trees, 50 trees > 3 m in height are found within the proposed development area, or have their TPZs impinged by > 10 %, within one contiguous native vegetation *Patch* of 0.088 ha; 18 of these trees are considered Large Trees (as determined using multi-trunk diameter calculation; Appendix D) - Trees 12, 13, 23, 35, 43, 46, 50, 52, 53, 58, 59, 60, 66, 68, 69, 71, 72 and 74 - according to the EVC benchmark for Sub-alpine Woodland EVC (40 cm dbh; Appendix C).

The proposed development must take care that there is no disturbance within the TPZs for those trees to be retained.

4.5 Patches
The entire proposed development site of 0.088 ha, and the canopy of adjacent trees where TPZ impingement was > 10 %, was determined to be a native vegetation *Patch* either due to the canopy cover and/or understorey plant cover.

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Vegetation Quality Assessment scoring has been completed for this native vegetation *Patch*, and the results of this can be seen in Sec. 4.6.

4.6 Vegetation Quality Assessment

There were no *Scattered Trees* designated on the site, and as indicated in Sec. 4.5, all native vegetation on the site was found in one native vegetation *Patch* of 0.088 ha.

The Vegetation Quality Assessment was undertaken by Steve Hamilton (VQA Competency HH129).

The *Patch* has a high score for Landscape Context (landscape connectivity), Large Trees, Understorey, Logs and Organic Litter, and has an overall Habitat Score of 65 (Table 4-1).

Table 4-1 Calculated Habitat Score for the native vegetation *Patch* (after DSE 2004).

| Zone | 1 |
|---|---------------------|
| Ecological Vegetation Class (DELWP 2021a) | Sub-alpine Woodland |
| Bioregional Conservation Status (DELWP 2021a) | Least Concern |
| Area (ha) | 0.088 |
| Large trees | 10 |
| Tree canopy cover | 3 |
| Understorey | 15 |
| Lack of weeds | 7 |
| Recruitment | 3 |
| Organic litter | 5 |
| Logs | 5 |
| Landscape Context Score | 17 |
| Habitat Score | 65 |

5. NET GAIN AND LOSS REPORTING

5.1 Quantification of Losses

A total of 0.088 ha is proposed for clearance across the proposed development site, which contains 18 Large Trees according to the EVC benchmark for Sub-alpine Woodland EVC (40 cm dbh; Appendix C).

The proposed loss is of relatively unmodified vegetation with significant biodiversity value:

- The extent of loss is low (< 0.1 ha), with the losses being of a high quality woodland;
- The proposal will result in the removal of 18 Large Trees;
- The Strategic Biodiversity Value (SBV) of all *Scattered Trees* proposed for loss is > 0.9, indicating a high SBV for the vegetation proposed for removal.

There are 104 threatened species that have habitat mapped to occur coincident with the proposed native vegetation to be removed. Forty one of these species have a mapped extent of habitat loss of $\geq 0.0001\%$ of the remaining habitat.

There were four rare or threatened species observed at the site - Alpine Wattle, Silver Snow-daisy, Dusty Daisy-bush, Alpine Bootlace Bush.

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The likelihood of seventy one threatened flora species and fourteen threatened fauna species being found within the proposed development footprint or that would utilise the habitat of the property has been considered in Sections 4.1 and 4.2, and all species listed, with status, number of records within proximity, and likelihood of presence are outlined in Appendix E.

5.2 Avoid and Minimise

A total of 50 trees > 3 m in height found within the proposed development area or have their TPZs impinged by > 10 % within one contiguous native vegetation *Patch* of 0.088 ha; 18 of these trees are considered Large Trees (as determined using multi-trunk diameter calculation; Appendix D) - Trees 12, 13, 23, 35, 43, 46, 50, 52, 53, 58, 59, 60, 66, 68, 69, 71, 72 and 74 - according to the EVC benchmark for Sub-alpine Woodland EVC (40 cm dbh; Appendix C).

Given the nature of the development and the need for substantial footings to be established for construction of the structures, all 50 trees within the proposed development area and adjacent areas are likely losses.

However, of the 76 trees assessed, Trees 2, 3, 10, 14 to 17, 21, 22, 26 to 32, 33, 36, 38, 39, 40, 41 and 63 (23 trees) are outside of the proposed development area and their TPZs are not impinged by > 10 % and these will be retained; it should be noted that Trees 2, 3, 9, 12, 13 and 33 are within an adjacent Lot with a different landholder where development consent has been provided, and will be cleared.

The proposed development must take care that there is no disturbance within the TPZs for those trees to be retained.

5.3 Offset Requirements

A mapping file outlining the habitat scoring and precise location of the native vegetation *Patch* proposed for clearance was submitted to the EnSym NVR Team Support in the outlined format following scenario-testing to clarify the requirements for offset to develop the application. The Native Vegetation Removal Report for the proposed clearance areas was received on the 15th March 2021 (Appendix F; DELWP 2021e), and provided the following assessment:

- The outlined proposed clearance was assessed as being a Detailed Assessment Pathway;
- The *Location Category* for the losses are mapped as *Location 3*;
- The total extent of the clearance is one native vegetation *Patch* of 0.088 ha, which includes 18 Large Trees;
- A General Offset of 0.084 General Habitat Units (GHUs) is required for the proposed clearance based on a 1.5x multiplier, with 18 Large Trees;
- There are no Specific Offsets;
- The Offset Site must be within the North East Catchment Management Authority catchment (or Local Government Area – Mount Hotham Alpine Resort);
- The Offset must have a minimum overall Strategic Biodiversity Value of 0.776.

6. MEETING THE OFFSET REQUIREMENT

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Appendix G: A third party offset quote to satisfy the offset requirement from a credit broker is attached in

7. REFERENCES

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**APPENDIX A FLORA INVENTORY OF THE ROAD
RESERVE AT HOT PLATE DRIVE,
HOTHAM HEIGHTS**

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Vascular flora have been recorded for presence across the assessed site, using a cover-abundance scale that is shown in the Table immediately below.

An asterisk denotes an introduced species.

Each plant species present were assessed for cover-abundance using the scale outlined below. Nomenclature and taxonomy of plants based variously on Royal Botanic Gardens Victoria (2019) and Walsh and Entwisle (1994, 1996 and 1999).

| Visual assessment of cover/abundance | |
|--------------------------------------|---|
| Symbol | Description |
| + | rare, cover < 5% |
| 1 | Uncommon, cover < 5 % |
| 2 | Very common, cover < 5 % or cover 5-25 % with any number of individuals |
| 3 | Cover 25-50 % with any number of individuals |
| 4 | Cover 50-75 % with any number of individuals |
| 5 | Cover 75-100 % with any number of individuals |

| Common name | Scientific name | Lifeform [#] | Assessed site |
|----------------------|--|-----------------------|---------------|
| Alpine Wattle | <i>Acacia alpina</i> | MS | 1 |
| Bidgee-widgee | <i>Acaena novae-hollandiae</i> | MH | + |
| Sheep Sorrel | <i>Acetosella vulgaris</i> * | MH | 1 |
| Yarrow | <i>Achillea millefolium</i> * | MH | 2 |
| Mountain Woodruff | <i>Asperula gunnii</i> | MH | 2 |
| Leafy Bossiaea | <i>Bossiaea foliosa</i> | MS | 3 |
| Soft Brome | <i>Bromus mollis</i> * | MTG | 2 |
| Silver Snow Daisy | <i>Celmisia tomentella</i> | SH | 2 |
| Spear Thistle | <i>Cirsium vulgare</i> * | LH | + |
| Button Everlasting | <i>Coronidium scorpioides</i> | MH | 1 |
| Cocksfoot | <i>Dactylis glomerata</i> * | LTG | 2 |
| Mountain Pepper | <i>Drimys lanceolata</i> | MS | 1 |
| Snow Gum | <i>Eucalyptus pauciflora</i> | T | 3 |
| Soft Crane's-bill | <i>Geranium potentilloides</i> | MH | 2 |
| Cat's Ear | <i>Hypochaeris radicata</i> * | MH | 2 |
| Dusty Daisy-bush | <i>Olearia phlogopappa ssp. flavescens</i> | MS | 2 |
| Cascade Everlasting | <i>Ozothamnus secundiflorus</i> | MS | + |
| Timothy Grass | <i>Phleum pratense</i> * | LTG | 1 |
| Alpine Bootlace Bush | <i>Pimelea axiflora ssp. alpina</i> | SS | + |
| Soft Snow-grass | <i>Poa hiemata</i> | MTG | 2 |
| Alpine Shaggy-pea | <i>Podolobium alpestre</i> | MS | 2 |
| Mother Shield-fern | <i>Polystichum proliferum</i> | GF | 2 |
| Prunus | <i>Prunus</i> sp.* | T | + |
| Fireweed | <i>Rudbeckia linearifolia</i> | LH | 2 |
| Common Trigger-plant | <i>Stylidium armeria</i> | MTG | + |

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abbreviations for lifeform for indigenous species are T = tree, MS = medium shrub, SS = small shrub, LH = large herb, MH = medium herb, SH = small herb, LTG = large tufted graminoid, MTG = medium tufted graminoid, STG = small tufted graminoid, MNG = medium non-tufted graminoid, SC = scrambler/climber, GF = ground fern, B/L = bryophyte/lichen, P = parasite.

APPENDIX B OBSERVED OR INFERRED FAUNA AT HOT PLATE DRIVE, HOTHAM HEIGHTS

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Observed or inferred fauna at the site and surrounds between 9.30 and 11.30 am
on the 3rd April 2019.

| Common name | Scientific name | Mode of observation ¹ |
|------------------|---------------------------|----------------------------------|
| Birds | | |
| Australian Raven | <i>Corvus coronoides</i> | A,V |
| Pied Currawong | <i>Strepera graculina</i> | A,V |

* denotes introduced species

1. Identification method: A = audible call; V = visual; N = distinctive nest; S = scat

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APPENDIX C EVC BENCHMARK DESCRIPTION

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Description:

Grows on a wide range of geologies and aspects, in the higher altitudinal levels above 1200 m. Rainfall is relatively high and snow may persist for long periods over winter. Soils are generally skeletal sandy clay loams with a rich humus topsoil layer. A low, open woodland to 10 m tall dominated by Snow Gum *Eucalyptus pauciflora*, with the understorey variously consisting of a rich suite of grasses and herbs, or a dense layer of woody shrubs, depending on soil fertility.

Large trees:

| Species | DBH(cm) | #/ha |
|------------------------|---------|---------|
| <i>Eucalyptus</i> spp. | 40 cm | 15 / ha |

Tree Canopy Cover:

| %cover | Character Species | Common Name |
|--------|------------------------------|-------------|
| 15% | <i>Eucalyptus pauciflora</i> | Snow Gum |

Understorey:

| Life form | #Spp | %Cover | LF code |
|-------------------------------------|------|--------|---------|
| Immature Canopy Tree | | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 5 | 20% | MS |
| Small Shrub | 2 | 10% | SS |
| Large Herb | 3 | 10% | LH |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 4 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |

LF Code

Species typical of at least part of EVC range

Common Name

| | | |
|-----|--|-------------------------|
| T | <i>Acacia obliquifera</i> | Mountain Hickory Wattle |
| MS | <i>Podolobium alpestre</i> | Alpine Podolobium |
| MS | <i>Olearia phlogopappa</i> | Dusty Daisy-bush |
| MS | <i>Tasmannia xerophila</i> | Alpine Pepper |
| SS | <i>Leucopogon hookeri</i> | Mountain Beard-heath |
| LH | <i>Senecio gunnii</i> | Mountain Fireweed |
| MH | <i>Stellaria pungens</i> | Prickly Starwort |
| MH | <i>Oreomyrrhis eriopoda</i> | Australian Caraway |
| MH | <i>Viola betonicifolia</i> ssp. <i>betonicifolia</i> | Showy Violet |
| MH | <i>Asperula gunnii</i> | Mountain Woodruff |
| MTG | <i>Styidium graminifolium</i> s.l. | Grass Trigger-plant |
| MTG | <i>Dianella tasmanica</i> | Tasman Flax-lily |
| MTG | <i>Poa australis</i> spp. <i>agg.</i> | Tussock Grass |
| MTG | <i>Carex breviculmis</i> | Common Grass-sedge |
| GF | <i>Polystichum proliferum</i> | Mother Shield-fern |

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EVC 43: Sub-alpine Woodland - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m³/0.1 ha.

Weediness:

| LF Code | Typical Weed Species | Common Name | Invasive | Impact |
|---------|-----------------------------|--------------|----------|--------|
| MH | <i>Acetosella vulgaris</i> | Sheep Sorrel | high | high |
| MH | <i>Hypochoeris radicata</i> | Cat's Ear | high | low |

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APPENDIX D SIGNIFICANT TREES

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Trees proposed for removal are highlighted in red.

| Tree number | Common name ¹ | Multi-trunk diameter ² | Tree location ³ | |
|-------------|--------------------------|-----------------------------------|----------------------------|-----------------|
| | | | <i>Easting</i> | <i>Northing</i> |
| 1 | Snow Gum | 34 | 512890 | 5906970 |
| 2 | Snow Gum | 43 | 512896 | 5906972 |
| 3 | Snow Gum | 22 | 512899 | 5906980 |
| 4 | Snow Gum | 18 | 512881 | 5906967 |
| 5 | Snow Gum | 36 | 512883 | 5906966 |
| 6 | Snow Gum | 10 | 512885 | 5906969 |
| 7 | Snow Gum | 25 | 512888 | 5906970 |
| 8 | Snow Gum | 18 | 512894 | 5906970 |
| 9 | Snow Gum | 15 | 512897 | 5906970 |
| 10 | Snow Gum | 32 | 512903 | 5906972 |
| 11 | Snow Gum | 15 | 512895 | 5906965 |
| 12 | Snow Gum | 71 | 512893 | 5906968 |
| 13 | Snow Gum | 55 | 512897 | 5906967 |
| 14 | Snow Gum | 35 | 512903 | 5906969 |
| 15 | Snow Gum | 15 | 512909 | 5906966 |
| 16 | Snow Gum | 15 | 512906 | 5906970 |
| 17 | Snow Gum | 26 | 512907 | 5906964 |
| 18 | Snow Gum | 31 | 512902 | 5906965 |
| 19 | Snow Gum | 20 | 512902 | 5906962 |
| 20 | Snow Gum | 36 | 512899 | 5906964 |
| 21 | Snow Gum | 20 | 512907 | 5906962 |
| 22 | Snow Gum | 31 | 512906 | 5906960 |
| 23 | Snow Gum | 53 | 512904 | 5906958 |
| 24 | Snow Gum | 18 | 512900 | 5906960 |
| 25 | Snow Gum | 27 | 512891 | 5906963 |
| 26 | Snow Gum | 43 | 512924 | 5906955 |
| 27 | Snow Gum | 29 | 512922 | 5906957 |
| 28 | Snow Gum | 18 | 512919 | 5906959 |
| 29 | Snow Gum | 28 | 512917 | 5906957 |
| 30 | Snow Gum | 30 | 512917 | 5906959 |
| 31 | Snow Gum | 30 | 512918 | 5906960 |
| 32 | Snow Gum | 20 | 512916 | 5906960 |
| 33 | Snow Gum | 26 | 512900 | 5906971 |
| 34 | Snow Gum | 22 | 512914 | 5906949 |
| 35 | Snow Gum | 46 | 512917 | 5906946 |
| 36 | Snow Gum | 15 | 512914 | 5906944 |
| 37 | Snow Gum | 20 | 512915 | 5906948 |
| 38 | Snow Gum | 21 | 512914 | 5906953 |

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Flora and Fauna Assessment and Net Loss Reporting – Hot Plate Drive, Hotham Heights

| Tree number | Common name ¹ | Multi-trunk diameter ² | Tree location ³ | |
|-------------|--------------------------|-----------------------------------|----------------------------|----------|
| | | | Easting | Northing |
| 39 | Snow Gum | 15 | 512922 | 5906955 |
| 40 | Snow Gum | 30 | 512919 | 5906956 |
| 41 | Snow Gum | 55 | 512924 | 5906954 |
| 42 | Snow Gum | 26 | 512889 | 5906957 |
| 43 | Snow Gum | 56 | 512898 | 5906951 |
| 44 | Snow Gum | 20 | 512901 | 5906953 |
| 45 | Snow Gum | 28 | 512903 | 5906954 |
| 46 | Snow Gum | 44 | 512910 | 5906947 |
| 47 | Snow Gum | 21 | 512913 | 5906952 |
| 48 | Snow Gum | 23 | 512902 | 5906951 |
| 49 | Snow Gum | 29 | 512896 | 5906952 |
| 50 | Snow Gum | 42 | 512894 | 5906951 |
| 51 | Snow Gum | 23 | 512894 | 5906955 |
| 52 | Snow Gum | 41 | 512885 | 5906958 |
| 53 | Snow Gum | 57 | 512907 | 5906948 |
| 54 | Snow Gum | 10 | 512905 | 5906945 |
| 55 | Snow Gum | 18 | 512904 | 5906941 |
| 56 | Snow Gum | 17 | 512903 | 5906948 |
| 57 | Snow Gum | 25 | 512905 | 5906951 |
| 58 | Snow Gum | 41 | 512909 | 5906944 |
| 59 | Snow Gum | 55 | 512894 | 5906947 |
| 60 | Snow Gum | 46 | <Null> | <Null> |
| 61 | Snow Gum | 38 | 512907 | 5906945 |
| 62 | Snow Gum | 30 | 512906 | 5906942 |
| 63 | Snow Gum | 38 | 512909 | 5906940 |
| 64 | Snow Gum | 39 | 512911 | 5906944 |
| 65 | Snow Gum | 30 | 512887 | 5906948 |
| 66 | Snow Gum | 45 | 512893 | 5906949 |
| 67 | Snow Gum | 25 | 512897 | 5906949 |
| 68 | Snow Gum | 60 | 512896 | 5906955 |
| 69 | Snow Gum | 40 | 512898 | 5906945 |
| 70 | Snow Gum | 36 | 512900 | 5906947 |
| 71 | Snow Gum | 50 | 512879 | 5906950 |
| 72 | Snow Gum | 47 | 512879 | 5906955 |
| 73 | Snow Gum | 15 | 512883 | 5906951 |
| 74 | Snow Gum | 46 | 512886 | 5906954 |
| 75 | Snow Gum | 32 | 512891 | 5906953 |
| 76 | Snow Gum | 20 | 512889 | 5906951 |

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¹ Snow Gum is *Eucalyptus pauciflora*;

2. Multi-trunk diameter at breast height over bark in cm (dbh; at 1.30 m above ground) dbh of multi-trunk trees was determined using the square root of the sum of squares of all stems;
3. Location data are northings and eastings of MGAz55 coordinates.

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APPENDIX E EPBC AND VICTORIAN THREATENED SPECIES AND LIKELIHOOD OF OCCURRENCE

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List of threatened flora species recorded by the Victorian Biodiversity Atlas and NatureKit in a 10 km radius around the property, and by Matters of National Environmental Significance search of the district, their status, and their likelihood of occurrence on the sites (DELWP 2021c; DAWE 2021).

| Scientific name | Common Name | Victorian status ¹ | Commonwealth status ² | Records within 10 km ³ | Last record ⁴ | Appropriate habitat ⁵ | Likelihood of presence ⁶ |
|--|----------------------------|-------------------------------|----------------------------------|-----------------------------------|--------------------------|----------------------------------|-------------------------------------|
| <i>Acacia alpina</i> | Alpine Wattle | r | | 29 | 2011 | Yes | Present |
| <i>Aciphylla glacialis</i> | Snow Aciphyll | r | | 37 | 2011 | No | Highly unlikely |
| <i>Acrothamnus montanus</i> | Snow Beard-heath | r | | 31 | 2011 | No | Highly unlikely |
| <i>Agrostis muelleriana</i> | Mueller's Bent | r | | 3 | 1997 | Yes | May be present |
| <i>Alchemilla xanthochlora</i> | Lady's Mantle | r | | 2 | 2012 | No | Highly unlikely |
| <i>Argyrotegium nitidulum</i> | Shining Cudweed | v | V | 0 | | No | Highly unlikely |
| <i>Boronia algida</i> | Alpine Boronia | r | | 24 | 2006 | Yes | Unlikely |
| <i>Bossiaea bracteosa</i> | Mountain Leafless Bossiaea | r | | 1 | 1980 | Yes | Unlikely |
| <i>Brachyscome tadgellii</i> | Tadgell's Daisy | r | | 1 | 1997 | No | Highly unlikely |
| <i>Cardamine lilacina</i> s.s. | Lilac Bitter-cress | v | | 2 | 2011 | Yes | May be present |
| <i>Carex canescens</i> | Short Sedge | r | | 2 | 1997 | No | Highly unlikely |
| <i>Carex raleighii</i> | Raleigh Sedge | r | | 1 | 1997 | No | Highly unlikely |
| <i>Carpha nivicola</i> | Broad-leaf Flower-rush | r | | 1 | 1997 | No | Highly unlikely |
| <i>Celmisia costiniana</i> | Carpet Snow-daisy | r | | 27 | 2011 | No | Unlikely |
| <i>Celmisia sericophylla</i> | Silky Snow-daisy | v,L | | 8 | 2016 | No | Unlikely |
| <i>Celmisia tomentella</i> | Silver Snow-daisy | r | | 19 | 2011 | Yes | Present |
| <i>Colobanthus affinis</i> | Alpine Colobanth | r | | 7 | 2006 | No | Highly unlikely |
| <i>Colobanthus curtisiae</i> | Curtis' Colobanth | k | V | 0 | | Yes | Unlikely |
| <i>Craspedia aurantia</i> var. <i>aurantia</i> | Orange Billy-buttons | r | | 6 | 2010 | No | Highly unlikely |
| <i>Craspedia aurantia</i> var. <i>jamesii</i> | Green Billy-buttons | r | | 31 | 2011 | No | Unlikely |
| <i>Craspedia canens</i> | Grey Billy-buttons | e,L | | 1 | 2016 | No | Highly unlikely |
| <i>Craspedia crocata</i> | Crimson Billy-buttons | r | | 7 | 2005 | No | Highly unlikely |
| <i>Craspedia lamigala</i> | Bog Billy-buttons | v,L | | 6 | 2007 | No | Highly unlikely |
| <i>Craspedia magrolysa</i> | Woolly Billy-buttons | v,L | | 3 | 2007 | No | Highly unlikely |

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Flora and Fauna Assessment and Net Loss Reporting – Hot Plate Drive, Hotham Heights

| Scientific name | Common Name | Victorian status ¹ | Commonwealth status ² | Records within 10 km ³ | Last record ⁴ | Appropriate habitat ⁵ | Likelihood of presence ⁶ |
|--|-------------------------|-------------------------------|----------------------------------|-----------------------------------|--------------------------|----------------------------------|-------------------------------------|
| <i>Cystopteris tasmanica</i> | Brittle Bladder-fern | r | | 1 | 2011 | No | Highly unlikely |
| <i>Deyeuxia carinata</i> | Keeled Bent-grass | r | | 1 | 2005 | No | Highly unlikely |
| <i>Deyeuxia crassiuscula</i> | Thick Bent-grass | r | | 1 | 2006 | No | Highly unlikely |
| <i>Drosera arcturi</i> | Alpine Sundew | r | | 3 | 2016 | No | Unlikely |
| <i>Epilobium curtisiae</i> | Bald-seeded Willow-herb | r | | 1 | 2012 | No | Highly unlikely |
| <i>Epilobium sarmentaceum</i> | Mountain Willow-herb | r | | 4 | 2011 | No | Highly unlikely |
| <i>Euphrasia crassiuscula</i> ssp. <i>eglandulosa</i> | Thick Eyebright | r | | 5 | 2011 | Yes | Unlikely |
| <i>Euphrasia crassiuscula</i> ssp. <i>glandulifera</i> | Thick Eyebright | v,L | V | 0 | | No | Highly unlikely |
| <i>Ewartia nubigena</i> | Silver Ewartia | r | | 3 | 2006 | No | Unlikely |
| <i>Geranium brevicaula</i> | Alpine Crane's-bill | r | | 1 | 1983 | No | Unlikely |
| <i>Geranium potentilloides</i> var. 1 | Soft Crane's-bill | k | | 1 | 2006 | Yes | Possibly present |
| <i>Geranium potentilloides</i> var. <i>abditum</i> | Soft Crane's-bill | r | | 6 | 2012 | Yes | May be present |
| <i>Grevillea victoriae</i> ssp. <i>victoriae</i> | Royal Grevillea | r | | 11 | 2007 | Yes | Unlikely |
| <i>Juncus antarcticus</i> | Cushion Rush | v,L | | 1 | 2016 | No | Highly unlikely |
| <i>Kelleria bogongensis</i> | Kelleria | e,L | V | 0 | | No | Highly unlikely |
| <i>Leptorhynchus squamatus</i> ssp. <i>alpinus</i> | Alpine Buttons | r | | 4 | 2011 | No | Highly unlikely |
| <i>Luzula acutifolia</i> ssp. <i>acutifolia</i> | Sharp-leaf Woodrush | r | | 19 | 2009 | No | Highly unlikely |
| <i>Olearia brevipedunculata</i> | Rusty Daisy-bush | r | | 6 | 2011 | Yes | Unlikely |
| <i>Olearia frostii</i> | Bogong Daisy-bush | r | | 55 | 2016 | Yes | Unlikely |
| <i>Olearia phlogopappa</i> ssp. <i>flavescens</i> | Dusty Daisy-bush | r | | 57 | 2012 | Yes | Present |
| <i>Oreobolus pumilio</i> ssp. <i>pumilio</i> | Alpine Tuft-rush | r | | 1 | 2016 | No | Highly unlikely |
| <i>Oreomyrrhis brevipes</i> | Branched Caraway | v,L | | 1 | 1996 | No | Highly unlikely |
| <i>Ozothamnus alpinus</i> | Alpine Everlasting | r | | 62 | 2016 | No | Unlikely |
| <i>Pappochroma nitidum</i> | Sticky Fleabane | r | | 5 | 2011 | Yes | May be present |
| <i>Pentachondra pumila</i> | Carpet Heath | r | | 2 | 1997 | No | Highly unlikely |
| <i>Phebalium squamulosum</i> ssp. <i>ozothamnoides</i> | Mountain Phebalium | r | | 5 | 2011 | Yes | Unlikely |

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Flora and Fauna Assessment and Net Loss Reporting – Hot Plate Drive, Hotham Heights

| Scientific name | Common Name | Victorian status ¹ | Commonwealth status ² | Records within 10 km ³ | Last record ⁴ | Appropriate habitat ⁵ | Likelihood of presence ⁶ |
|--|-------------------------|-------------------------------|----------------------------------|-----------------------------------|--------------------------|----------------------------------|-------------------------------------|
| <i>Pimelea axiflora</i> ssp. <i>alpina</i> | Alpine Bootlace Bush | r | | 43 | 2012 | Yes | Present |
| <i>Pimelea ligustrina</i> ssp. <i>ciliata</i> | Fringed Rice-flower | r | | 10 | 2011 | No | Unlikely |
| <i>Plantago alpestris</i> | Veined Plantain | r | | 2 | 2006 | No | Highly unlikely |
| <i>Podolepis hieracioides</i> | Long Podolepis | r | | 1 | 1979 | Yes | May be present |
| <i>Podolepis laciniata</i> | High-plain Podolepis | r | | 1 | 2006 | No | Highly unlikely |
| <i>Prasophyllum morgani</i> | Cobungra Leek-orchid | x | V | 0 | | Yes | Highly unlikely |
| <i>Psychrophila introloba</i> | Alpine Marsh-marigold | r | | 9 | 2016 | No | Highly unlikely |
| <i>Pterostylis oreophila</i> | Blue-tongued Orchid | e | CE | 0 | | No | Highly unlikely |
| <i>Ranunculus eichlerianus</i> | Eichler's Buttercup | r | | 37 | 2010 | Yes | May be present |
| <i>Ranunculus gunnianus</i> | Gunn's Alpine Buttercup | r | | 1 | 1997 | No | Highly unlikely |
| <i>Ranunculus muelleri</i> | Felted Buttercup | v,L | | 3 | 2007 | No | Highly unlikely |
| <i>Ranunculus victoriensis</i> | Victorian Buttercup | r | | 26 | 2012 | No | Highly unlikely |
| <i>Rytidosperma alpicola</i> | Crag Wallaby-grass | r | | 2 | 2006 | No | Highly unlikely |
| <i>Rytidosperma nivicola</i> | Snow Wallaby-grass | r | | 2 | 2016 | No | Highly unlikely |
| <i>Scleranthus singuliflorus</i> | Mossy Knawel | r | | 4 | 2004 | No | Highly unlikely |
| <i>Senecio pectinatus</i> var. <i>major</i> | Alpine Groundsel | r | | 15 | 2012 | No | Highly unlikely |
| <i>Senecio pinnatifolius</i> var. <i>alpinus</i> | Snowfield Groundsel | r | | 8 | 2011 | Yes | May be present |
| <i>Taraxacum aristum</i> | Mountain Dandelion | r | | 2 | 1980 | Yes | May be present |
| <i>Thesium australe</i> | Austral Toadflax | v,L | V | 0 | | Yes | May be present |
| <i>Trachymene humilis</i> ssp. <i>breviscapa</i> | Alpine Trachymene | r | | 12 | 2009 | No | Highly unlikely |
| <i>Trochocarpa clarkei</i> | Lilac Berry | r | | 1 | 1997 | Yes | Unlikely |

- x = presumed extinct in Victoria; e = endangered in Victoria; v = vulnerable in Victoria; r = rare in Victoria; k = insufficiently known in Victoria; L = listed under the *Flora and Fauna Guarantee Act* (from DEPI 2014).
- CE = critically endangered nationally; E = endangered nationally; V = vulnerable nationally (DAWE 2019);
- As recorded in the Victorian Biodiversity Atlas (DELWP 2021c);
- As recorded for the species in the Victorian Biodiversity Atlas (DELWP 2021c);
- Determination based on known habitat preferences for the species and the assessed habitat characteristics of the site, from Royal Botanic Gardens Victoria (2019) and Walsh and

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Entwisle (1994, 1996 and 1999);

6. Based on known habitat preferences for the species and the assessed habitat characteristics of the site, known records for the species, and their proximity and time of record.

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List of threatened fauna species recorded by the Victorian Biodiversity Atlas and NatureKit in a 10 km radius around the property, and by Matters of National Environmental Significance search of the district, their status, and their likelihood of occurrence on the subject land (DELWP 2021c; DAWE 2021).

| Scientific name | Common Name | Victorian status | Commonwealth status | Records within 10 km | Last record | Appropriate habitat | Likelihood of presence |
|--|-----------------------|------------------|---------------------|----------------------|-------------|---------------------|------------------------|
| <i>Pseudemoia cryodroma</i> | Alpine Bog Skink | e,L | | 15 | 2016 | No | Highly unlikely |
| <i>Cyclodomorphus praealtus</i> | Alpine She-oak Skink | ce,L | E | 24 | 2016 | No | Unlikely |
| <i>Thaumatoperla alpina</i> | Alpine Stonefly | v,L | E | 0 | | No | Highly unlikely |
| <i>Litoria verreauxii alpina</i> | Alpine Tree Frog | ce,L | E | 7 | 2016 | No | Highly unlikely |
| <i>Mastacomys fuscus mordicus</i> | Broad-toothed Rat | e,L | V | 7 | 2017 | Yes | Likely |
| <i>Petauroides volans</i> | Greater Glider | v | V | 0 | | No | Unlikely |
| <i>Litoria raniformis</i> | Growling Grass Frog | e,L | V | 0 | | No | Highly unlikely |
| <i>Liopholis guthega</i> | Guthega Skink | ce,L | E | 0 | | Yes | Unlikely |
| <i>Potorous longipes</i> | Long-footed Potoroo | v,L | E | 0 | | No | Highly unlikely |
| <i>Burramys parvus</i> | Mountain Pygmy-possum | cr,L | E | 60 | 2017 | Yes | Likely |
| <i>Pseudomys fumeus</i> | Smoky Mouse | e,L | E | 0 | | Yes | Highly unlikely |
| <i>Dasyurus maculatus maculatus</i> (SE mainland population) | Spot-tailed Quoll | e,L | E | 0 | | Yes | Highly unlikely |
| <i>Litoria spenceri</i> | Spotted Tree Frog | ce,L | E | 0 | | No | Highly unlikely |
| <i>Pseudemoia pagenstecheri</i> | Tussock Skink | v | | 2 | 1999 | No | Unlikely |

- x = presumed extinct in Victoria; e = endangered in Victoria; v = vulnerable in Victoria; r = rare in Victoria; k = insufficiently known in Victoria; L = listed under the *Flora and Fauna Guarantee Act* (from DEPI 2014).
- CE = critically endangered nationally; E = endangered nationally; V = vulnerable nationally (DAWE 2021);
- As recorded in the Victorian Biodiversity Atlas (DELWP 2021c);
- As recorded for the species in the Victorian Biodiversity Atlas (DELWP 2021c);
- Determination based on known habitat preferences for the species and the assessed habitat characteristics of the site, from various State and Commonwealth conservation advice and listings, recovery plans, etc.;
- Based on known habitat preferences for the species and the assessed habitat characteristics of the site, landscape connectivity of the site, known records for the species, and their proximity and time of records.

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**APPENDIX F NATIVE VEGETATION REMOVAL
REPORT FOR HOT PLATE DRIVE
HOTHAM HEIGHTS (DELWP) 18TH
MARCH 2021**

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This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation*. The report **is not an assessment by DELWP** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Date of issue: 18/03/2021

Report ID: HAE_2021_016

Time of issue: 2:52 pm

| | |
|------------|---|
| Project ID | Hot_Plate_Drive_Mount_Hotham_GDA94_170321 |
|------------|---|

Assessment pathway

| Assessment pathway | Detailed Assessment Pathway |
|--|--|
| Extent including past and proposed | 0.088 ha |
| Extent of past removal | 0.000 ha |
| Extent of proposed removal | 0.088 ha |
| No. Large trees proposed to be removed | 18 |
| Location category of proposed removal | Location 3 The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species. |

1. Location map



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Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

| | |
|---|--|
| General offset amount¹ | 0.084 general habitat units |
| Vicinity | North East Catchment Management Authority (CMA) or Mount Hotham Alpine Resort (Unincorporated) Council |
| Minimum strategic biodiversity value score ² | 0.776 |
| Large trees | 18 large trees |

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

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¹ The general offset amount required is the sum of all general habitat units in Appendix 1.

² Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for a permit from your local council. Council will refer your application to DELWP for assessment, as required. **This report is not a referral assessment by DELWP.**

This *Native vegetation removal report* must be submitted with your application for a permit to remove, destroy or lop native vegetation.

Refer to the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines) for a full list of application requirements. This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway
- A description of the native vegetation to be removed (partly met)
- Maps showing the native vegetation and property (partly met)
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- Recent dated photographs
- Details of past native vegetation removal
- An avoid and minimise statement
- A copy of any Property Vegetation Plan that applies
- A defensible space statement as applicable
- A statement about the Native Vegetation Precinct Plan as applicable
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees
- An offset statement that explains that an offset has been identified and how it will be secured.

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Authorised by the Victorian Government, 8 Nicholson Street, East Melbourne.

For more information contact the DELWP Customer Service Centre 136 186

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Obtaining this publication does not guarantee that an application will meet the requirements of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes or that a permit to remove native vegetation will be granted.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes.

Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

The general offset amount required is the sum of all general habitat units per zone.

Native vegetation to be removed

| Information provided by or on behalf of the applicant in a GIS file | | | | | | | Information calculated by EnSym | | | | | |
|---|-------|----------|----------------------------|---------------|-----------------|-----------------|---------------------------------|------------------------|-----------|----------|---------------|-------------|
| Zone | Type | BioEVC | BioEVC conservation status | Large tree(s) | Partial removal | Condition score | Polygon Extent | Extent without overlap | SBV score | HI score | Habitat units | Offset type |
| 1-A | Patch | valp0043 | Least Concern | 18 | no | 0.650 | 0.088 | 0.088 | 0.970 | | 0.084 | General |

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Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

| Species common name | Species scientific name | Species number | Conservation status | Group | Habitat impacted | % habitat value affected |
|-----------------------|--|----------------|-----------------------|--------------------------|---------------------------------------|--------------------------|
| Woolly Billy-buttons | <i>Craspedia maxgrayi</i> s.s. | 505942 | Vulnerable | Highly Localised Habitat | Habitat importance map | 0.0045 |
| Mountain Pygmy Possum | <i>Burrhamys parvus</i> | 11156 | Critically endangered | Dispersed | Top ranking map ; special site | 0.0015 |
| Rock Grevillea | <i>Grevillea willisii</i> | 501554 | Rare | Dispersed | Habitat importance map | 0.0010 |
| Wire-head Sedge | <i>Carex cephalotes</i> | 500631 | Vulnerable | Dispersed | Habitat importance map | 0.0004 |
| Dwarf Sedge | <i>Carex paupera</i> | 500646 | Vulnerable | Dispersed | Habitat importance map | 0.0003 |
| Silver Ewartia | <i>Ewartia nubigena</i> | 501348 | Rare | Dispersed | Habitat importance map | 0.0003 |
| Branched Caraway | <i>Oreomyrrhis brevipes</i> | 502359 | Vulnerable | Dispersed | Habitat importance map | 0.0003 |
| Shining Cudweed | <i>Argyrotegium nitidulum</i> | 501467 | Rare | Dispersed | Habitat importance map | 0.0003 |
| Compact Hook-sedge | <i>Carex austrocompacta</i> | 505030 | Vulnerable | Dispersed | Habitat importance map | 0.0002 |
| Alpine Pennywort | <i>Schizeilema fragoseum</i> | 503032 | Vulnerable | Dispersed | Habitat importance map | 0.0002 |
| Alpine She-oak Skink | <i>Cyclodomorphus praealtus</i> | 12987 | Critically endangered | Dispersed | Habitat importance map | 0.0002 |
| Thick Eyebright | <i>Euphrasia crassiuscula</i> subsp. <i>crassiuscula</i> | 504473 | Rare | Dispersed | Habitat importance map | 0.0002 |
| Carpet Heath | <i>Pentachondra pumila</i> | 502454 | Rare | Dispersed | Habitat importance map | 0.0002 |
| Alpine Tree Frog | <i>Litoria verreauxii alpina</i> | 63907 | Critically endangered | Dispersed | Habitat importance map | 0.0002 |
| Mountain Pygmy Possum | <i>Burrhamys parvus</i> | 11156 | Critically endangered | Dispersed | Habitat importance map ; special site | 0.0002 |
| Sharp-leaf Woodcush | <i>Luzula acuminata</i> subsp. <i>acutifolia</i> | 502064 | Rare | Dispersed | Habitat importance map | 0.0002 |
| Reddish Bog-heath | <i>Epacris glabella</i> | 501164 | Rare | Dispersed | Habitat importance map | 0.0001 |

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| | | | | | | |
|-----------------------|---|--------|------------|-----------|------------------------|--------|
| Alpine Trachymene | <i>Trachymene humilis</i> subsp. <i>breviscapa</i> | 505003 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Star Sedge | <i>Carex echinata</i> | 500637 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Bog Billy-buttons | <i>Craspedia lamicola</i> | 505935 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Felted Buttercup | <i>Ranunculus muelleri</i> | 502896 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Alpine Everlasting | <i>Ozothamnus alpinus</i> | 501605 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Bogong Daisy-bush | <i>Olearia frostii</i> | 502306 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Snow Beard-heath | <i>Acrothamnus montanus</i> | 501985 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Colobanth | <i>Colobanthus affinis</i> | 500793 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Tufted Hair-grass | <i>Deschampsia cespitosa</i> | 501006 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Holy-grass | <i>Hierochloa submutica</i> | 501689 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Thick Eyebright | <i>Euphrasia crassiuscula</i> subsp. <i>eglandulosa</i> | 504474 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Carpet Snow-daisy | <i>Celmisia costiniana</i> | 504638 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Lady's Mantle | <i>Alchemilla xanthochlora</i> | 500170 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Rusty Daisy-bush | <i>Olearia brevipedunculata</i> | 504782 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Sundew | <i>Drosera arcturi</i> | 501101 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Silky Snow-daisy | <i>Celmisia sericophylla</i> | 500693 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Crimson Billy-buttons | <i>Craspedia crocata</i> | 504645 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Mountain Daisy | <i>Brachyscome foliosa</i> | 500479 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Alpine Sunray | <i>Leucochrysum alpinum</i> | 504582 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Snow Aciphyll | <i>Aciphylla glacialis</i> | 500113 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Groundsel | <i>Senecio pectinatus</i> var. <i>major</i> | 503122 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Bootlace Bush | <i>Pimelea axillora</i> subsp. <i>alpina</i> | 504828 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Sky Lily | <i>Harporhombus zelandiae</i> | 501658 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Bog Skink | <i>Pseudemodia cyodroma</i> | 12992 | Endangered | Dispersed | Habitat importance map | 0.0001 |

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|----------------------------|--|--------|------------|-----------|------------------------|--------|
| Rock Poa | <i>Saxipoa saxicola</i> | 502607 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Sticky Fleabane | <i>Pappochroma nitidum</i> | 501215 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Dusty Daisy-bush | <i>Olearia phlogopappa subsp. flavescens</i> | 504780 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Short Sedge | <i>Carex canescens</i> | 500633 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Victorian Buttercup | <i>Ranunculus victoriensis</i> | 503961 | Rare | Dispersed | Habitat importance map | 0.0001 |
| High-plain Podolepis | <i>Podolepis laciniata</i> | 505305 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Alpine Blown-grass | <i>Lachnagrostis meionectes</i> | 500156 | Rare | Dispersed | Habitat importance map | 0.0001 |
| Spreading Bitter-cress | <i>Cardamine astoniae</i> | 505025 | Vulnerable | Dispersed | Habitat importance map | 0.0001 |
| Mountain Leafless Bossiaea | <i>Bossiaea bracteosa</i> | 500432 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Broad-leaf Flower-rush | <i>Carpha nivicola</i> | 500653 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Silver Snow-daisy | <i>Celmisia tomentella</i> | 504637 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Marsh-marigold | <i>Psychrophila introloba</i> | 500601 | Rare | Dispersed | Habitat importance map | 0.0000 |
| White Billy-buttons | <i>Craspedia alba</i> | 500856 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |
| Snow Wallaby-grass | <i>Rytidosperma nivicola</i> | 500971 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Eichler's Buttercup | <i>Ranunculus eichlerianus</i> | 502888 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Wattle | <i>Acacia alpina</i> | 500009 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Stork's-bill | <i>Pelargonium helmsii</i> | 502445 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |
| Broad-toothed Rat | <i>Mastacomys fuscus mordicus</i> | 11438 | Endangered | Dispersed | Habitat importance map | 0.0000 |
| Snow Coprosma | <i>Coprosma nivalis</i> | 500820 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Gunn's Alpine Buttercup | <i>Ranunculus gunnii</i> | 502892 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Snowy Everlasting | <i>Coronidium waddelliae</i> | 504588 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Mossy Knawel | <i>Scleranthus singuliflorus</i> | 503064 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Orange Billy-buttons | <i>Craspedia aurantiava aurantia</i> | 504642 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Tussock Skink | <i>Pseudomispogon stecheri</i> | 12993 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |

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| | | | | | | |
|-------------------------|---|--------|------------|-----------|------------------------|--------|
| Carpet Sedge | <i>Carex jackiana</i> | 500644 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Mueller's Bent | <i>Agrostis muelleriana</i> | 500157 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Buttons | <i>Leptorhynchos squamatus subsp. alpinus</i> | 505611 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Mat Cudweed | <i>Euchiton traversii</i> | 501474 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Snowfield Groundsel | <i>Senecio pinnatifolius var. alpinus</i> | 505108 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Veined Plantain | <i>Plantago alpestris</i> | 502548 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Crane's-bill | <i>Geranium brevicaule</i> | 501433 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Triggerplant | <i>Stylidium montanum</i> | 504722 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Tussock Woodrush | <i>Luzula alpestris</i> | 502065 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Fringed Rice-flower | <i>Pimelea ligustrina subsp. ciliata</i> | 504841 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Sedge | <i>Carex blakei</i> | 500626 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Soft Crane's-bill | <i>Geranium potentilloides var. abditum</i> | 505339 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Royal Grevillea | <i>Grevillea victoriae subsp. victoriae</i> | 505486 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Dwarf Buttercup | <i>Ranunculus millanii</i> | 502895 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Thick Bent-grass | <i>Deyeuxia crassiuscula</i> | 501014 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Raleigh Sedge | <i>Carex raleighii</i> | 500649 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Spinning Gum | <i>Eucalyptus perriniana</i> | 501309 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Keeled Bent-grass | <i>Deyeuxia carinata</i> | 501012 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Green Billy-buttons | <i>Craspedia aurantia var. jamesii</i> | 504647 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Benambra Club-sedge | <i>Isolpis gouldii</i> | 504676 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |
| Mountain Dandelion | <i>Taraxacum aristum</i> | 503334 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Bald-seeded Willow-herb | <i>Epilobium curtisiae</i> | 501177 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Squat Picris | <i>Picris squarrosa</i> | 504827 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Alpine Boronia | <i>Boronia rigida</i> | 500419 | Rare | Dispersed | Habitat importance map | 0.0000 |

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| | | | | | | |
|---------------------------|---|--------|------------|-----------|------------------------|--------|
| Mountain Phebalium | <i>Phebalium squamulosum subsp. ozothamnoides</i> | 502488 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Sickle-leaf Rush | <i>Juncus falcatus subsp. falcatus</i> | 501816 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Brittle Bladder-fern | <i>Cystopteris tasmanica</i> | 500944 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Swamp Violet | <i>Viola caleyana</i> | 503527 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Dark-flower Rush | <i>Juncus phaeanthus</i> | 501832 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Native Wintercress | <i>Barbarea grayi</i> | 500368 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |
| Fine-leaf Snow-grass | <i>Poa clivicola</i> | 502585 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Long Podolepis | <i>Podolepis hieracioides</i> | 502616 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Mountain Willow-herb | <i>Epilobium sarmentaceum</i> | 501181 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Spreading Knawel | <i>Scleranthus fasciculatus</i> | 503062 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Narrow-wing Daisy | <i>Brachyscome willisii</i> | 504797 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Australian Anchor Plant | <i>Discaria pubescens</i> | 501072 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Tufted Knawel | <i>Scleranthus diander</i> | 503061 | Rare | Dispersed | Habitat importance map | 0.0000 |
| Cliff Cudweed | <i>Euchiton umbricola</i> | 501475 | Rare | Dispersed | Habitat importance map | 0.0000 |
| White-throated Needletail | <i>Hirundapus caudacutus</i> | 10334 | Vulnerable | Dispersed | Habitat importance map | 0.0000 |

Habitat group

- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

Habitat impacted

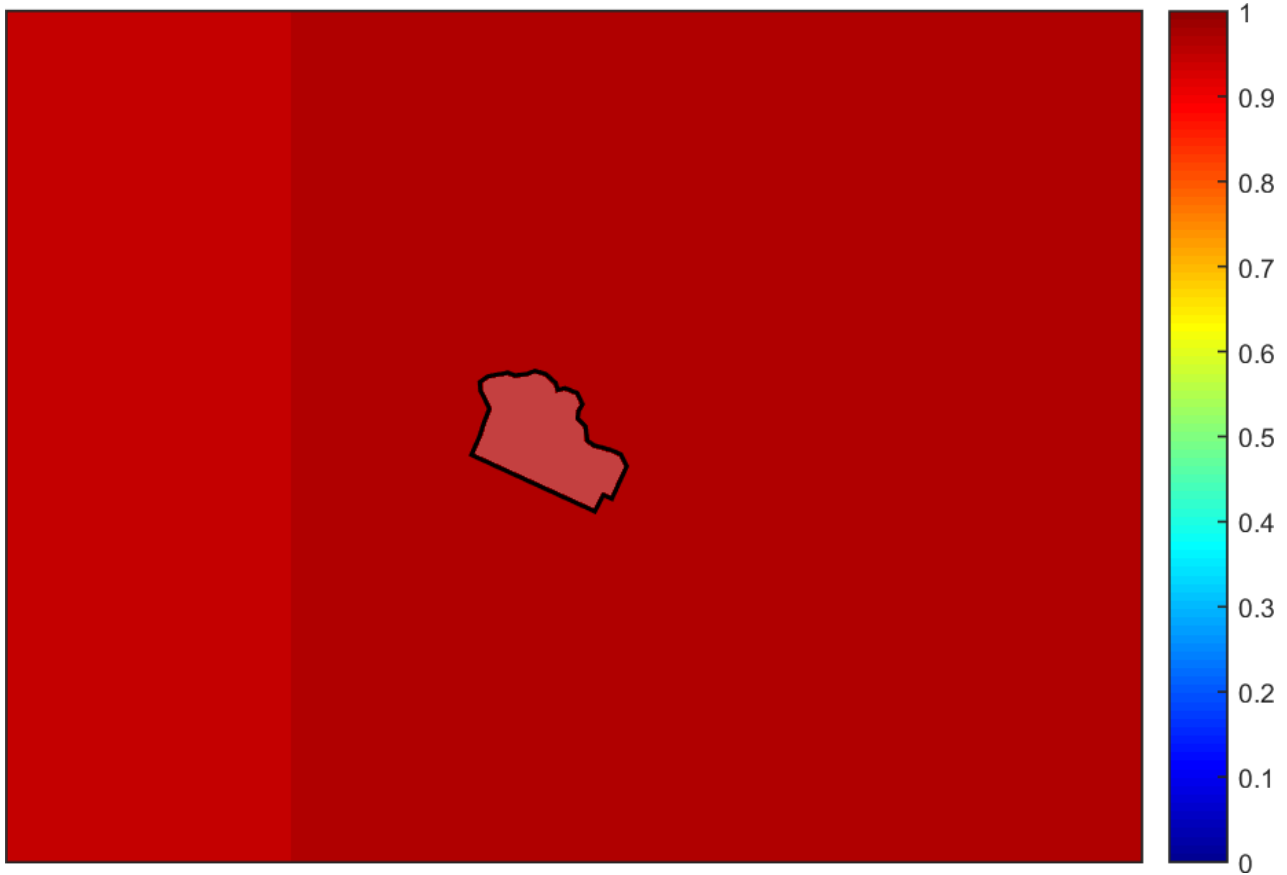
- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA records are those that represent a large population, roosting or breeding site etc.

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Appendix 3 – Images of mapped native vegetation

2. Strategic biodiversity values map



3. Aerial photograph showing mapped native vegetation



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North ↑

0 1 2
x10 metres

4. Map of the property in context



Yellow boundaries denote areas of proposed native vegetation removal.

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APPENDIX G THIRD PARTY OFFSET QUOTE FROM VEGETATION LINK

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18 March 2021

Steve Hamilton

Hamilton Environmental Services
hammys2345@bigpond.com

Dear Steve,

RE: Quotation for the supply of native vegetation credits

Vegetation Link is an accredited offset provider with the Department of Environment, Land, Water & Planning (DELWP). We offer a specialised brokerage service to enable permit holders and developers to identify suitable native vegetation credits to meet their planning permit offset requirements.

Based on the information you have provided, I understand you require the following native vegetation offset:

| Offset type | Attributes | General habitat units (GHU) | Min. strategic biodiversity value (SBV) | Large trees |
|-------------|----------------|-----------------------------|---|-------------|
| General | North East CMA | 0.084 | 0.776 | 18 |

To meet your offset requirements, you can purchase native vegetation credits from a third party as per the options quoted below¹. This quotation is valid for 14 days, subject to credit availability and landholder pricing.

Option 1: CTA pathway – offset site located in the Indigo Shire Council area (approx. 2-5 week turnaround from acceptance of quote)

| | |
|---|--------------------|
| Cost of native vegetation credits – invoiced by DELWP | \$28,800.00 |
| Transaction fees – invoiced by Vegetation Link | \$1,020.00 |
| Total (ex. GST) | \$29,820.00 |
| Total (inc. GST) | \$32,802.00 |

Option 2: TWO x CTA pathway – offset sites located in the Towong & Wangaratta Council areas (approx. 2-5 week turnaround from acceptance of quote)

| | |
|--|--------------------|
| Cost of native vegetation credits – invoiced by DELWP | \$21,450.00 |
| Transaction fees for TWO (2) x contracts – invoiced by Vegetation Link | \$1,810.00 |
| Total (ex. GST) | \$23,260.00 |
| Total (inc. GST) | \$25,586.00 |

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Note that the transaction fee includes DELWP NVOR transfer and allocation fees and a Vegetation Link fee

Vegetation Link Pty Ltd

ABN: 92 169 702 032

www.vegetationlink.com.au

If you would like to purchase credits, let us know that you accept the quote and return the attached **purchaser details form** by email. If more than one quotation option is provided above, specify which option you choose.

Upon receipt of the form, we will begin the trade process. Further details of the process for credit allocation is in the FAQ below.

Should you have any queries, please do not hesitate to contact us on 1300 VEG LINK (1300 834 546) or email offsets@vegetationlink.com.au.

Sincerely,



Lisa Gormley

Biodiversity Offset Broker

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FAQs

What is a third party offset?

A third party offset is an offset site owned by another landowner who manages and protects native vegetation on their land. Landowners who establish these offset sites are required to:

- Enter into a Landowner Agreement for the specified offset site. A landowner agreement is in perpetuity and is binding upon the current and future landowners of the site. It permanently restricts use of the site for many purposes.
- Implement a detailed 10-year Management Plan endorsed by the DELWP Native Vegetation Offset Register to manage and improve the biodiversity values of the site.

How is the price of native vegetation offset credit (GHUs, GBEUs etc.) determined?

Landowners who own offset sites set their own price for native vegetation credits. They determine the price based on numerous factors. This includes but not limited to site establishment, the cost to manage the site in perpetuity (e.g., maintain fencing, control pest species), foregone use cost, and administrative costs. Depending on how the site is registered, the credit fee may be paid to either DELWP or directly to the landowner.

Further information about the work some of our landowners are doing can be found on the [Vegetation Link website](#).

What is the process after I accept the quote?

After you accept the quote and return the purchaser table, the following steps will be undertaken:

1. We will set up a contract between the parties involved and send the contract out for signing by all parties.
2. Once the contract is signed by all parties, invoices will be issued for the fees listed in the quotation. We will send you two invoices, one for our transaction fee invoiced by Vegetation Link and one for the credit fee, usually to be paid to DELWP or the landowner. We recommend providing remittances for your payments.
3. Once payments are received, Vegetation Link will send you an allocated credit extract from the Native Vegetation Offset Register and your executed contract as evidence that you have purchased the offset.

How long will the process take? When will I get my credits?

Our ability to provide you with evidence of allocated credits takes time and is dependent on a range of factors including the type of offset site, contract types and organisational workflows. We work as quickly as possible to provide you with this information.

We note that you cannot remove vegetation until you have been given permission by the Responsible Authority (usually the council that has issued your permit).

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What happens if I don't have a permit yet?

When people are buying credits before a permit is issued, the following three options are most common:

4. You can pay for the offsets before the planning permit is available, and then the offsets are allocated to the permit when it is available. This will incur an additional \$50 fee from DELWP. When considering this option, it is important to realise that your estimated offset requirements may be different than the actual permit requirements.
5. You can wait for the planning permit to be approved first and then request a quote to meet the requirements in your permit. Should credits be available, you can then start the offset purchase process. We then use the planning permit number for allocating the credits. Allocating credits to the permit is evidence that you have purchased your offset.
6. You can request a quote to confirm availability and to get an idea of the cost of offsetting before you apply for a permit. Once you receive the planning permit you can request an updated quote. It is at this point that you can then go through the offset purchase process.

We cannot guarantee credit availability until a) contracts are executed, or b) credits have been held via a pending trade lodged with DELWP Native Vegetation Offset Register.

We cannot guarantee price until a) a quote has been accepted within 14 days, and b) a Credit Trading Agreement is signed within 21 days, and c) the invoice for the credits is paid within 28 days of the date the invoice is issued.

If I sign the contract, does that mean I MUST pay for the credits?

Yes, you have entered into a contract agreeing to pay for the offset credits therein and are required to pay for those credits. The credits must be paid for within 28 days of the date of the invoice.

Can you hold the credits for me, as I want to pay later?

We are unable to hold credits for later payment. Please also see 'What happens if I don't have a permit yet?' above.

For further information, see [our website](#) or the [DELWP website](#).

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