

Character Area 1.6

Volcanic Lakes & Swamps

1.6 VOLCANIC LAKES & SWAMPS

The scattering of lakes, wetland and swampy depressions that characterise this landscape were formed due to poor drainage. Larger lakes such as Lake Bolac were created when nearby lava flows blocked natural drainage lines, and rock strewn paddocks and low stony rises are common in the area.

Often the lakes and swamps are not immediately visible to the eye, and appear as subtle slivers of water in the distant middle-ground of views. Many of them are no bigger than a large farm dam, while others are quite expansive. Sometimes parts that are sunken into the landscape are not obvious from viewing corridors, only aerial imagery reveals more detail than initially evident.

Many of these lakes are seasonally dry causing the landscape to change dramatically over time. During periods of drought Lake Bolac appeared as a vast sandy depression, while at the time of survey it was filled with lapping water reflecting the blue sky.

The north west part of this Character Area offers spectacular views of the Grampians Ranges, which rise dramatically from the Western Volcanic Plain and dominate the horizon.

Key Features

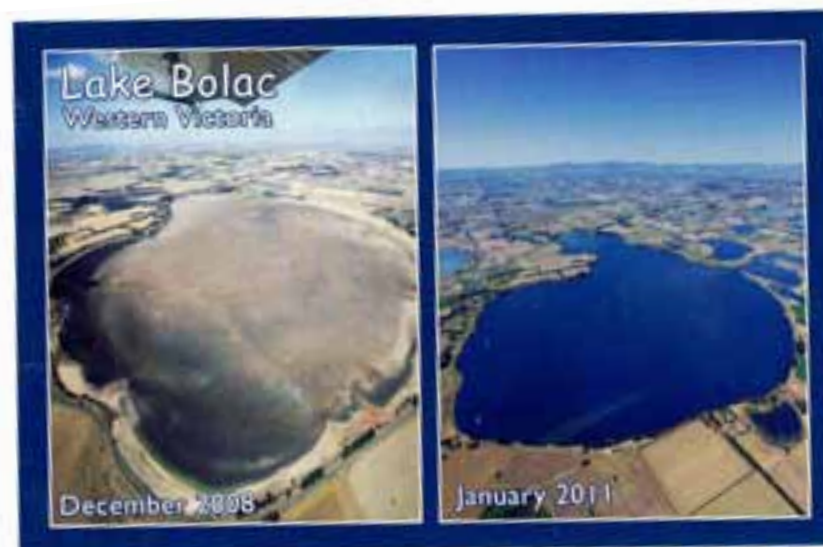
- Concentration of small lakes

Settlements

- Lake Bolac
- Streatham
- Willaura
- Westmere
- Woorndoo



Some of the many small lakes which characterise this area



Post Card images of Lake Bolac

Figure 1 Volcanic Lakes & Swamps Overview

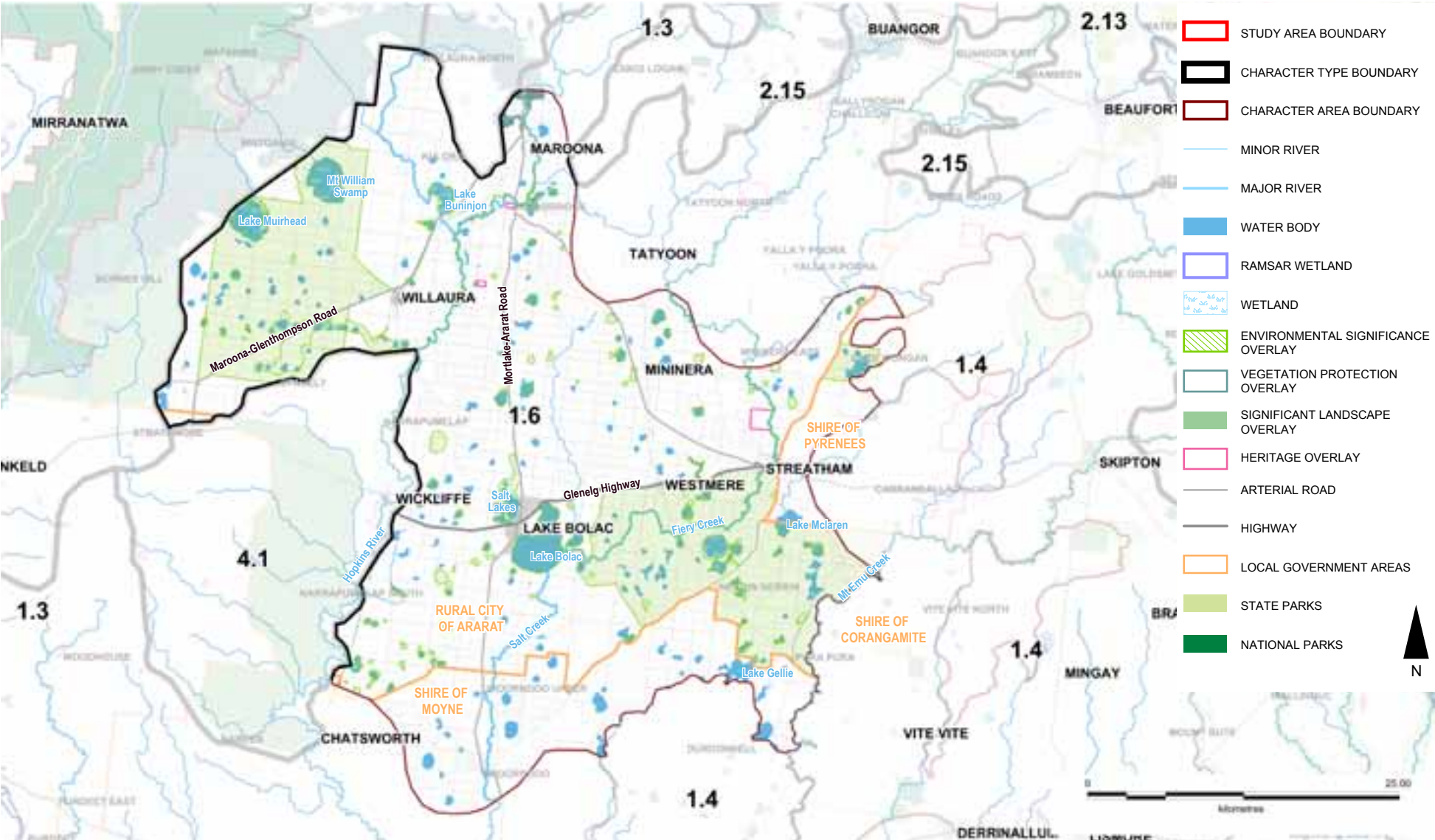


Figure 2 Volcanic Lakes & Swamps Landform

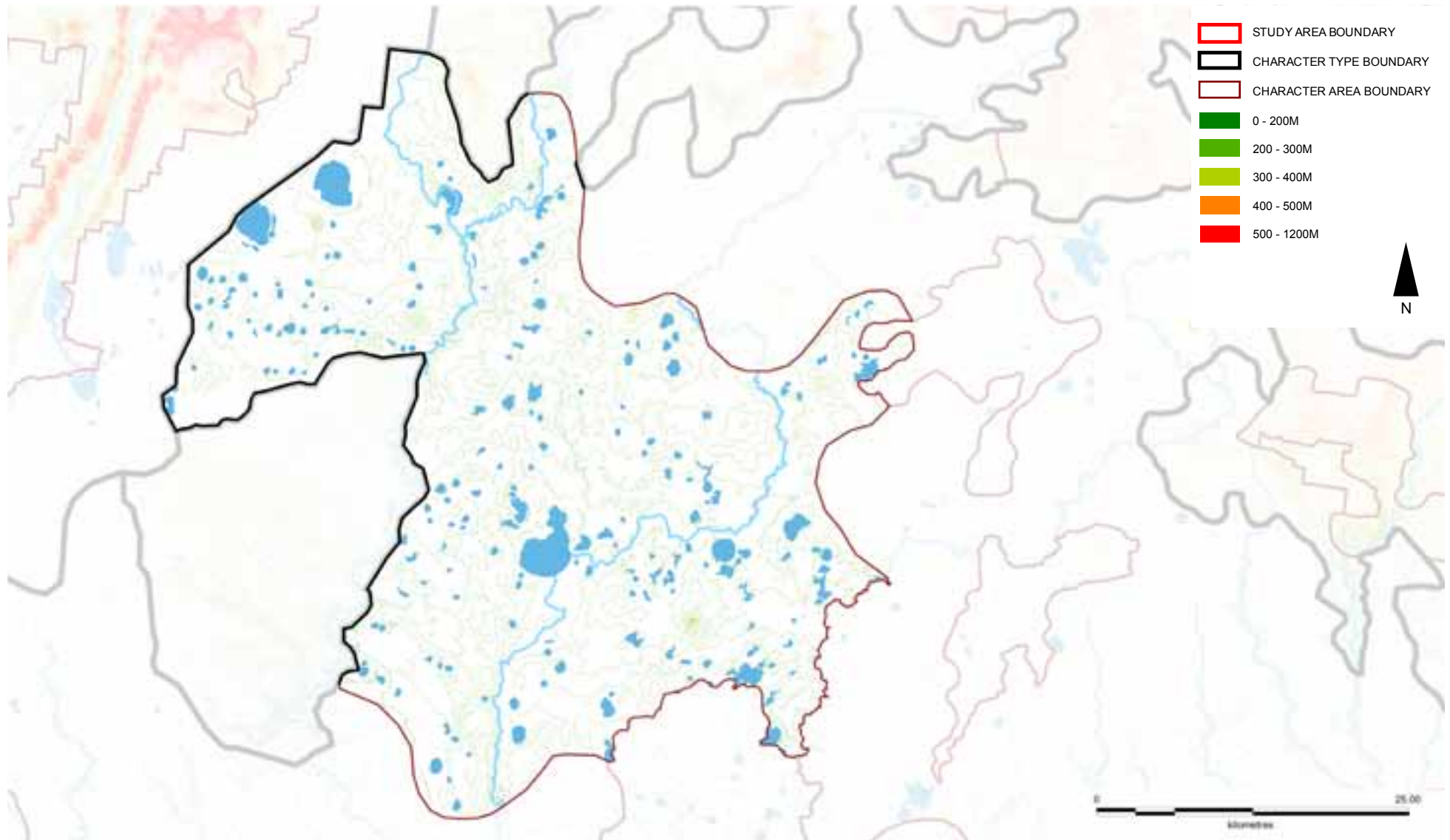
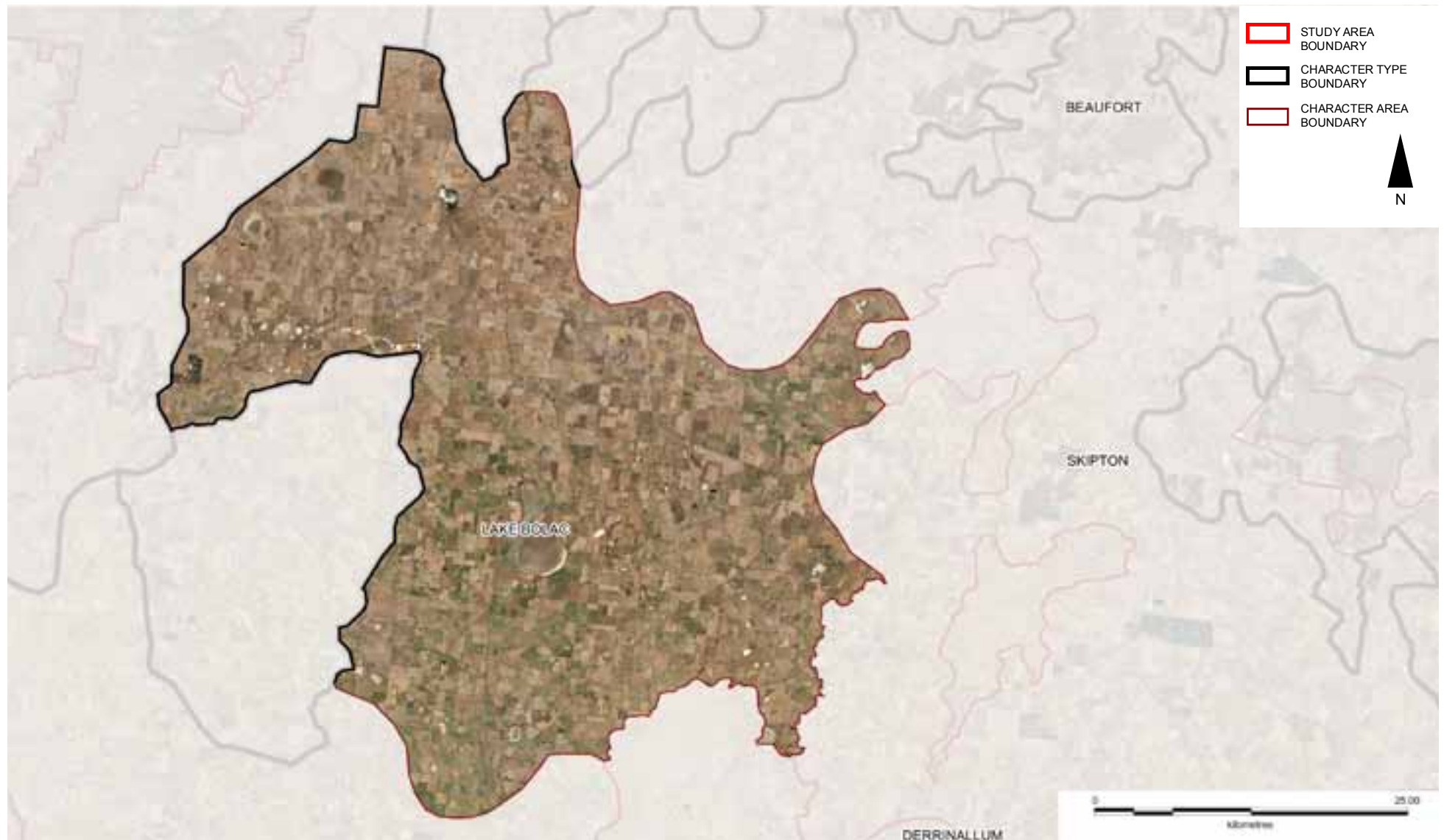


Figure 3 Volcanic Lakes & Swamps Aerial



PATTERN OF VIEWING

The main viewing corridors in this Character Area are:

- Glenelg Highway
- Mortlake - Ararat Road
- Maroona-Glenhomsan Road
- Rossbridge-Streatham Road

Views within this Character Area are long ranging over flat to undulating agricultural volcanic plains. Lakes are glimpsed in the middle-ground as the landscape is traversed, as blue slivers reflecting the sky. Occasionally some are located close to the roadside in the foreground.

To the north of the Character Area panoramic views of the Grampians dominate the horizon.



Long range views west over the Character Area from the Woolsthorpe-Streatham Road which terminate in a wooded backdrop



The sandy shores and expansive waterbody of Lake Bolac



Opportunities for recreation on the shores of Lake Bolac



Where lakes are not visible from the viewing corridors the landscape is characterised by flat, mainly featureless, agricultural plains with occasional shelterbelts and views terminating in a wooded backdrop or distantly rising topography.

LANDSCAPE VALUES

Historic

- Evidence of Aboriginal use
 - mound sites between Chatsworth & Lake Bolac
 - lithic scatters at Lake Bolac, particularly at the lunette on the lake's eastern side
- Stone cairns & stone walled dam, Dundonnell, Moyne Shire on file with National Trust

Environmental/Scientific

- Protected areas on the IUCN list
 - Salt Lake Wildlife Reserve, Category IA (Strict Nature Reserve)
 - Blue Lake, Pink Lake, Salt Lake, Lake Eyang, Lake Jollicum, Lake Kornong, Lake Oundell, Lake Terrinallum, Lake Wongan & Nerrin Nerrin Swamp Wildlife Reserves, Category VI (Protected area with sustainable use of natural resources)
- Nationally important wetlands
 - Nerrin Nerrin
 - Woorndoo-Hopkins
- Locally significant watercourses, waterbodies & wetlands, protected by Ararat ESO2
- Locally significant site of biodiversity, protected by Ararat ESO3
- Locally significant vegetation, protected by Ararat VPO1 & VPO2, including scattered Red Gums, an important habitat & links

LANDSCAPE PROTECTION & MANAGEMENT

Planning Scheme Policies & Controls

This Character Area is subject to the Ararat, Moyne, Pyrenees and Southern Grampians Planning Schemes.

Key Clauses

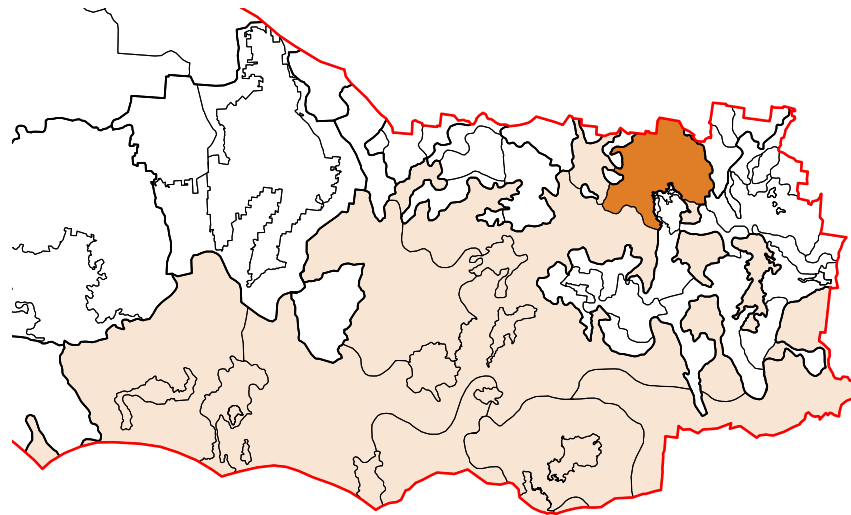
- Ararat Clause 21.04-4 Rural Landscape

Key Zones

- FZ
- PCRZ (Ararat & Pyrenees only)

Key Overlays

- Ararat ESO2: Watercourses, Waterbody & Wetland Protection Areas
- Ararat ESO3: Habitat Protection Areas
- Pyrenees ESO2: Watercourse Protection
- Ararat HO120: School, HO122: Church, HO123: Homestead, HO130: Building at “Edgarley”, HO133: Woolshed
- Moyne HO2: Cast Iron Mileposts, Chatsworth-Wickliffe Road
- Ararat VPO1: Significant & Remnant Vegetation Areas
- Ararat VPO2: Roadside Vegetation Protection Areas
- Ararat WMO / BMO
- Ararat RO1: Maroona
- Ararat RO2: Mininera



Character Area 1.7

Cones & Mines

1.7 CONES & MINES

This is an area of geological and cultural interest which allows a visual representation of intense historic volcanic activity alongside more recent gold mining endeavours.

Numerous rises in close proximity include Mount Kooroocheang, Birch Hill, Mount Moorookyle, Powlett Hill, Stewart Hill, Kelly Hill, Clover Hill, Woodhouse Hill, Cattle Hill and Station Hill

Volcanic rises form individual steep, smooth, domal punctuations which pepper the landscape, rising dramatically from the flat pastoral surroundings. It is the concentration and individuality of these cones which makes this particular area stand out.

Alongside the volcanic cones sit visible reminders of gold mining in the shape of mine heads, mullock heaps and crumbling stone or brick buildings which were all tools of the search for gold buried within the lava flows.

Key Features

- Individual volcanic cones punctuating the landscape
- Visible gold mining infrastructure
- Largely underdeveloped character

Settlements

- Clunes
- Smeaton
- Ullina
- Allendale
- Learmonth



Often situated on private land these volcanic features rise from the volcanic agricultural plain



Mullock heaps echo the shapes of the volcanic features



Remnant pump house and gravel heaps from the age of gold mining

Figure 1 Cones & Mines Overview

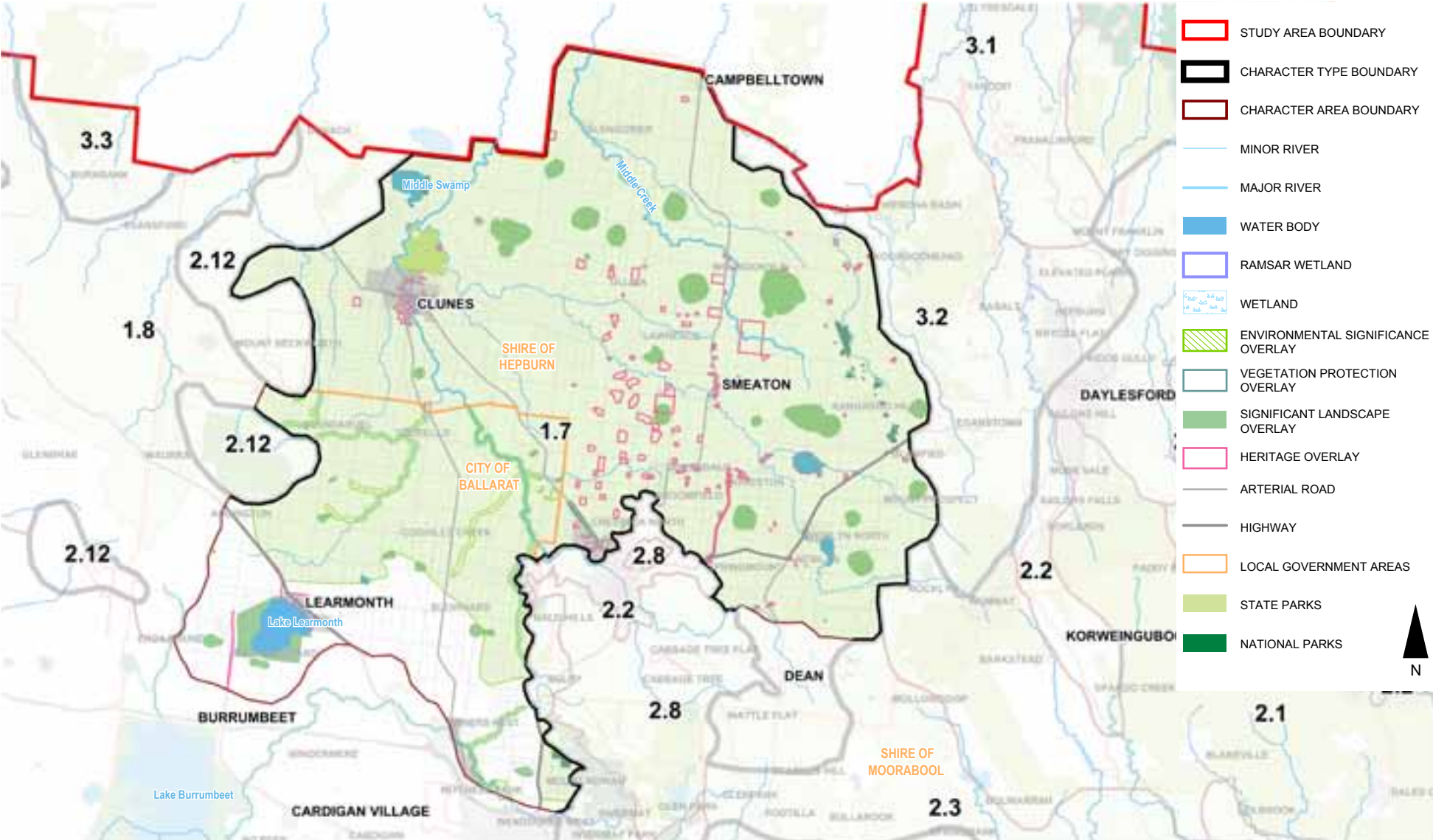


Figure 2 Cones & Mines Landform & Waterform

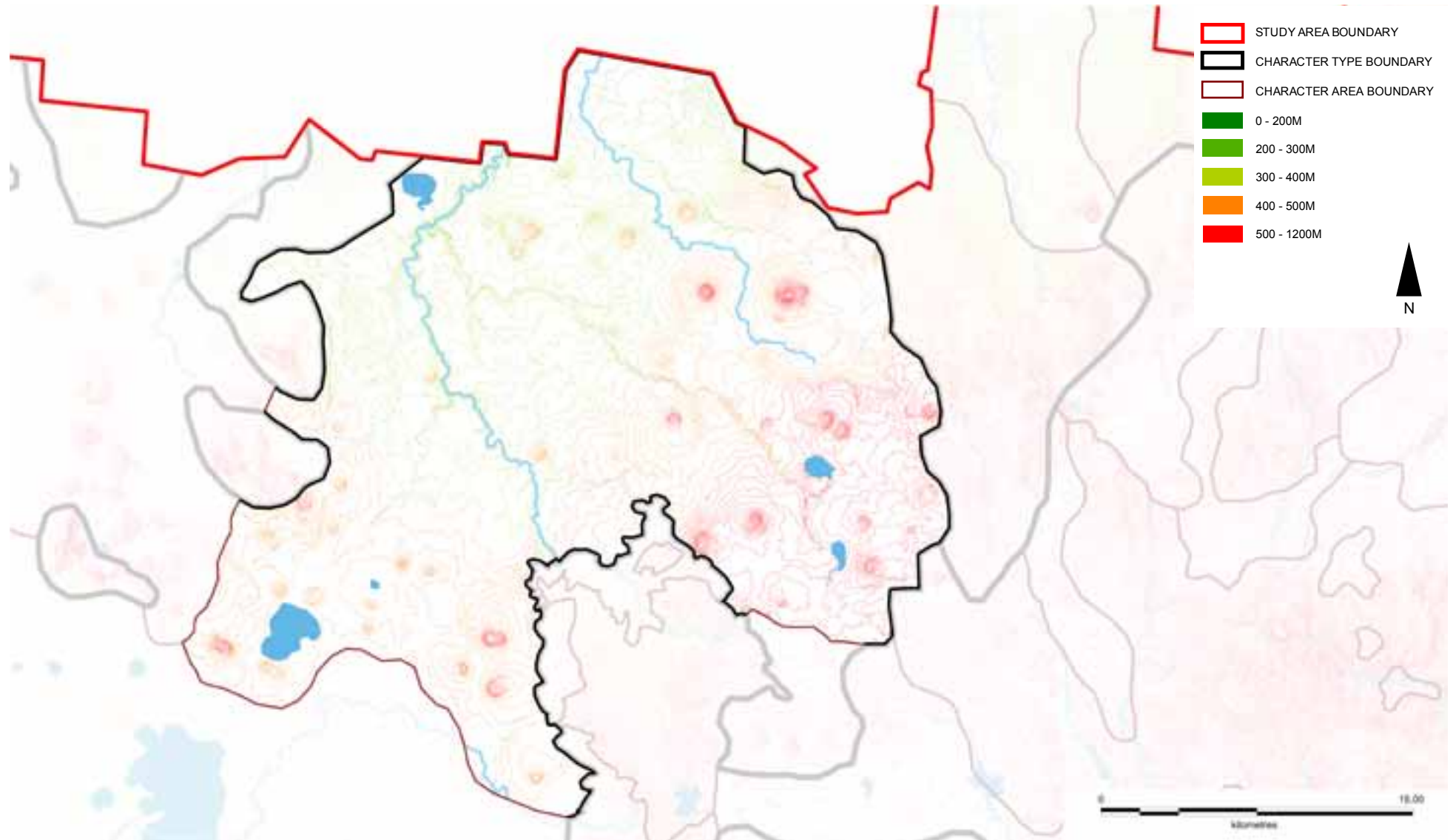
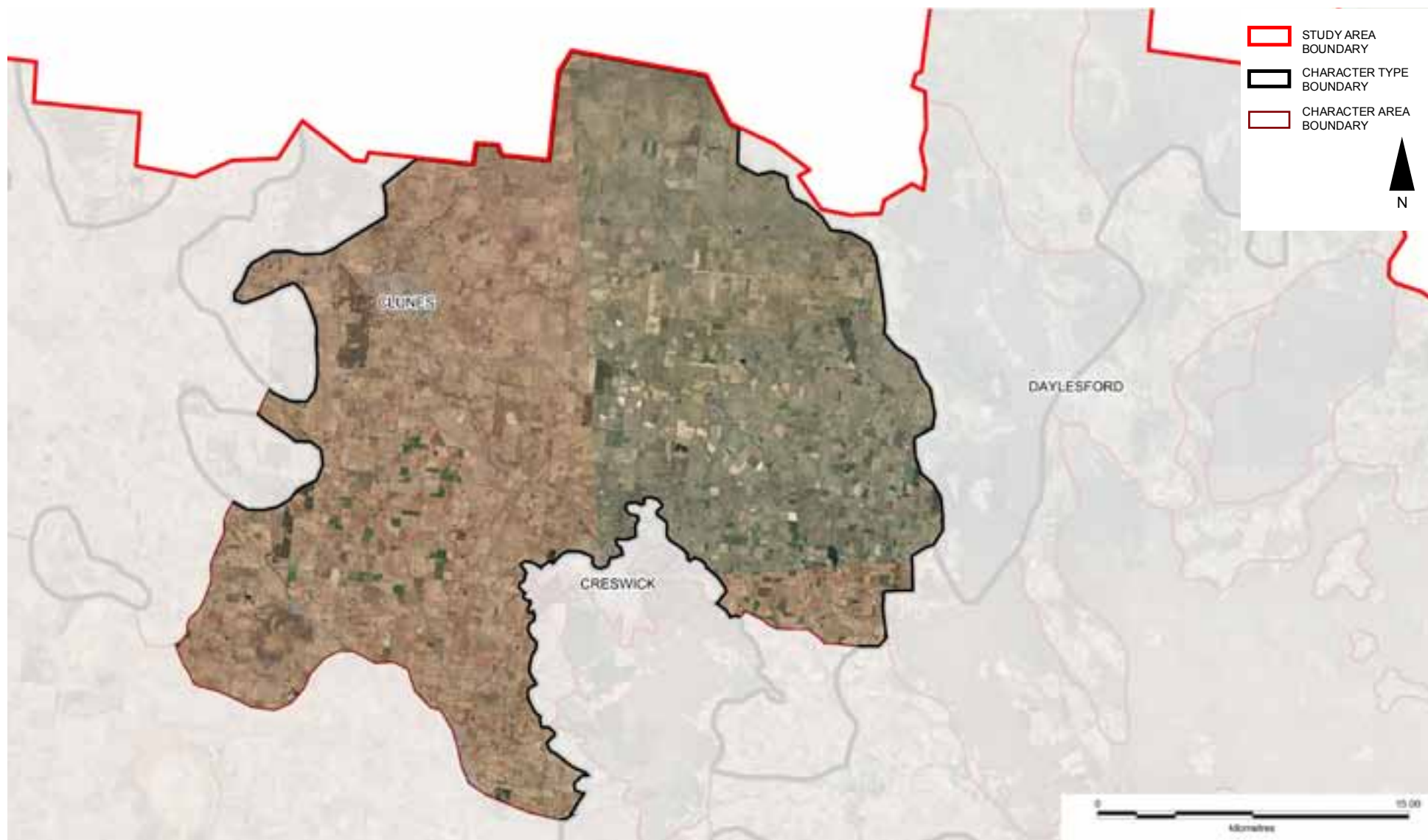


Figure 3 Cones & Mines Aerial



PATTERN OF VIEWING

The Daylesford to Creswick Road forms the major viewing corridor within this Character Area. This corridor provides panoramic views over flat agricultural plains with volcanic rises punctuating the horizon.

Other viewing corridors are:

- The Creswick-Newstead Road
- The Clunes-Creswick Road
- The Ballarat-Maryborough Road

Smaller minor roads dissect this landscape and allow a more intimate viewing experience of these volcanic cones and historic mines.

To the west of this Character Area the exposed rocky faces of Mount Bolton and Mount Beckworth and occasional windfarm views are visible on the horizon.



Gold mining history Lookout (Daylesford to Clunes Road: In the 1880s eleven working mines would have been visible from this lookout. Views across the agricultural plain terminate in volcanic rises, gold mining remnants are visible in the middle-ground. Some stands of vegetation are present but the area is mostly cleared.



Volcanic rises appear out of the flat volcanic landscape, shelterbelts occasionally screen views from viewing corridors



To the west of this Character Area views open up to the east towards the Waubra windfarm and the exposed granite outcrops of Mount Bolton and Mount Beckworth

LANDSCAPE VALUES

Historic

- Gold mining sites, protected by Hepburn HO
- Hepburn Lagoon, protected by Hepburn H826

Environmental/Scientific

- Views to Mount Bolton, a unique landscape characterised by granite outcrops & has remnant mature forest, protected by Ballarat SLO1
- Volcanic peaks landscape area, ridges & escarpments area & sites of geological significance, protected by Hepburn SLO1
- Koalas, habitats protected by Ballarat ESO5
- Locally significant native vegetation, protected by Ballarat VPO1
- Locally significant roadside & remnant vegetation, protected by Hepburn VPO1
- Protected areas on the IUCN list
 - Tourello Streamside Reserve, Category III (Natural Monument or Feature)
 - Clunes Bushland Reserve, Category IV (Habitat/Species Management Area)
 - Merin Merin & Middle Swamp Wildlife Reserve, Category VI (Protected area with sustainable use of natural resources)

Social

- Water catchment areas, protected by Ballarat ESO3 & Hepburn ESO1, supply potable water to urban & rural communities throughout the region
- Goldfields Touring Route between Castlemaine & Clunes

LANDSCAPE PROTECTION & MANAGEMENT

Planning Scheme Policies & Controls

This Character Area is subject to the Ballarat and Hepburn Planning Schemes.

Key Zones

- FZ
- PCRZ (Hepburn only)
- RLZ at Bald Hills, Blampied, Broomfield / Creswick, Clunes, Newlyn North, Sulky
- RCZ (Hepburn only)

Key Overlays

- Ballarat SLO1: Mount Bolton
- Hepburn SLO1: Volcanic Peaks Landscape Area, Ridges & Escarpments Area & Sites of Geological Significance
- Ballarat ESO2: Streamside & Watercourse Protection
- Ballarat ESO3: Water Catchment Areas
- Ballarat ESO4: Wastewater Treatment Plant Buffer Area
- Ballarat ESO5: Koala & Koala Habitat Protection
- Hepburn ESO1: Proclaimed Catchment Protection
- HO including many residential buildings, many mine sites, some churches, bridges and other places such as (examples all in Hepburn):
 - HO155: Port Phillip & Colonial Gold Mining Co. & Clunes Co-operative Quartz Mining Co. Site
 - HO156: Yankee Quartz Mining Co. Site
 - HO157: Former Mine Residence, Clunes
 - HO158: Victorian Quartz Mining Co. Site
 - HO323: South Clunes & Lothair Mines
 - HO579: Kingston Showgrounds

- HO604: Kaboonga Company Mine Site
- HO605: Berry United Mine Site
- HO826: Hepburn Lagoon
- HO915 & HO916: Lone Hand 1 & 2 Mine Site
- HO917: West Berry Consols 1 Mine Site
- HO918: Dyke NW Mine Site
- HO919 & HO920: Ristori 1 & 2 Mine Site
- HO921: North Australasian Mine Site
- HO922: Australasian Extended Mine Site
- HO923: Davies Junction 2 Mine Site
- HO924: Charleson & Davies No. 1 (Amalgamated Cooper) Mine Site
- HO925: Cooper Mine Site
- HO926 Dyke FBD Mine Site
- HO928 & HO929: Part De Murska Mine Site
- HO930: Kingston Park Mine Site
- HO931: New Ristori Mine Site
- HO932: New Australasian 3 Mine Site
- HO933: South Berry Mine Site
- HO934: Bunyan FHD Mine Site
- HO935: Colthards FHD Mine Site
- HO936: Eaglehawk Mine Site
- HO937 & HO938: Creswick Deep Leads 1 & 2 Mine Site
- HO939 High Junction Mine Site
- HO940: Grand Trunk Mine Site
- HO941 & HO956: Berry Consols 1 & 2 Mine Site
- HO942: Madam Berry West 1 Mine Site
- HO943 & HO944: Madam Berry 1 & 2 Mine Site
- HO945: Berry No. 1 Deep Lead Gold Mine & Pump House
- HO946: Crown Mine Site

- HO947: New Australasian 1 Mine Site
- HO948: New Australasian No. 2 Deep Lead Gold Mining Memorial & Site
- HO949: Berry Consols Extended Deep Lead Gold Mine
- HO950: Spring Hill & Central Leads Mine Site
- HO951: Hepburn Estate Mine Site
- HO952: West Berry Consols 2 Mine Site
- HO957: Madam Berry West No 3 Mine Site
- HO960: Lord Harry Mine Site
- HO963: Earl of Beaconsfield Mine Site
- HO964: Hepburn Consols Mine Site
- Ballarat VPO1: Native Vegetation Protection Areas
- Hepburn VPO1: Roadside Conservation & Remnant Vegetation
- Ballarat DPO4: Undeveloped Industrial Land
- WMO / BMO
- Hepburn LSIO
- Ballarat RFO
- Hepburn EMO
- Ballarat DDO18: Ballarat Airfield - Building Height above 15m

Proposed Overlays

- Ballarat EMO

