

King Island Bush Blitz
***Vascular Plants, Bryophytes and
Lichens***

22 October 2023 – 31 October 2023

Submitted: 17 April 2024

***Matthew Baker, Gintaras Kantvilas, Lyn Cave, Miguel de Salas, Zoe
Lawrence and David Cantrill***

Nomenclature and taxonomy used in this report is consistent with:

[The Australian National Species List](#)

Contents

Contents.....	2
List of contributors.....	3
Abstract.....	4
1. Introduction.....	4
2. Methods	4
2.1 Site selection	4
2.2 Survey techniques	4
2.2.1 Methods used at standard survey sites.....	5
2.3 Identifying the collections	6
3. Results and Discussion	6
3.1 Un-named or not formalised taxa	6
3.2 Putative new species (new to science).....	6
3.3 Exotic and pest species	6
3.4 Threatened species	9
3.5 Range extensions	10
3.6 Genetic information.....	12
4. Information on species lists	12
5. Information for land managers	12
6. Other significant findings	13
7. Conclusions.....	13
Acknowledgements	13
References.....	13
Appendix 1.1. List of vascular plants recorded during the King Island Bush Blitz.....	14
Appendix 1.2. List of bryophytes recorded during the King Island Bush Blitz.....	21
Appendix 1.3. List of lichens recorded during the King Island Bush Blitz.....	23

List of contributors

List of contributors to this report.			
Name	Institution/affiliation	Qualifications/area of expertise	Level/form of contribution
<i>Gintaras Kantvilas</i>	<i>Tasmanian Herbarium</i>	<i>Lichens</i>	<i>survey participant and report author</i>
<i>Lyn Cave</i>	<i>Tasmanian Herbarium</i>	<i>Bryophytes</i>	<i>survey participant and report author</i>
<i>Miguel de Salas</i>	<i>Tasmanian Herbarium</i>	<i>Vascular Plants</i>	<i>survey participant and report author</i>
<i>Matthew Baker</i>	<i>Tasmanian Herbarium</i>	<i>Vascular Plants</i>	<i>survey participant and principal report author</i>
<i>David Cantrill</i>	<i>National Herbarium of Victoria</i>	<i>Vascular Plants</i>	<i>survey participant and report author</i>
<i>Zoe Lawrence</i>	<i>Tasmanian Herbarium</i>	<i>Early Career Researcher</i>	<i>survey participant and report author</i>

Abstract

A 10-day targeted survey of vascular plants, bryophytes and lichens was conducted across the reserve estate of King Island, as part of the Bush Blitz King Island expedition in October 2023. Voucher specimens were prepared for accession into the Tasmanian Herbarium (HO) and the National Herbarium of Victoria (MEL)

779 specimens, representing **442** individual taxa, were collected.

42 exotic vascular plants and **2** introduced mosses were recorded. Of these, **3** are declared under the *Tasmanian Weed Management Act 1999*.

36 taxa represent new records for King Island.

9 vascular plants listed under the Tasmanian *Threatened Species Protection Act 1995* (TSPA 1995) were recorded. No plants listed under the EPBC were recorded.

5 undescribed lichen taxa, already known from other collections, were recorded from King Island for the first time.

2 taxa recorded represent new records for Tasmania. These include a native fern and a lichen.

2 lichen taxa were found to be notable range extensions.

1. Introduction

Target groups of vascular plants, bryophytes and lichens were surveyed across the reserve estate of King Island from 22 October 2023 – 31 October 2023. Several bryophyte specimens were collected after the main survey on the 2 November 2023 and 4 November 2023.

King Island is situated in the Bass Strait, approximately 90 km south of Cape Otway, Victoria and a similar distance northwest of Cape Grim, on the far north-west tip of the Tasmanian mainland. Its proximity to both landmasses is reflected in its flora, with examples of species shared with one landmass but not the other. For instance, the small tree species, *Hedycarya angustifolia*, is widespread in forests along the eastern seaboard of mainland Australia. However, in Tasmania it is only known to occur in the forests of King Island. Conversely, the coastal herb *Nablonium calyceroides* is widespread and common along the Tasmanian west coast, including the coasts of King Island. However, it has not been recorded on mainland Australia. Due to this King Island provides an important refuge for the flora of both regions.

The island consists of a multitude of natural habitats including coastal, wetland, heathland and forest communities. These habitats are scattered throughout a small reserve estate which is significantly fragmented by past widespread land clearing for agriculture.

2. Methods

2.1 Site selection

Sampling was based on a strategic selection of survey sites and represented the major vegetation types found on the island. Aerial photography and geology and vegetation maps were consulted prior to the survey to prioritise and shortlist potential survey sites. Sampling was confined mostly to undisturbed and regenerating habitats within the reserve estate. Each site was surveyed in detail to cover relevant habitats for target taxa.

2.2 Survey techniques

Specimens of vascular plants, bryophytes and lichens were collected by hand and lodged in the Tasmanian Herbarium (HO) and the National Herbarium of Victoria (MEL). Where available, duplicates of all groups were distributed to other herbaria nationally and internationally under TMAG's formal specimen exchange programme. All possible substrata for lichens and bryophytes, including rocks, soil, bark, wood and charcoal, were examined.

2.2.1 Methods used at standard survey sites

Three standard survey sites (20 m x 20 m) were installed during the survey. The sites were selected to represent different habitats and were spread widely across the island (table 1 figure 1). Each site was comprehensively surveyed for all vascular plants, lichens and bryophytes. Percentage cover of each vascular plant species was recorded using the Braun-Blanquet scale (Braun-Blanquet 1928). All lichen and bryophyte species were recorded as specimens. Only vascular plant species with fertile material were collected and documented as specimens. All other vascular plant taxa were recorded as observations.

Site	Location	Habitat	Latitude	Longitude
SSS1	Pegarah Nature Reserve	Open <i>Melaleuca ericifolia</i> forest	-39.943438	143.991300
SSS2	Lavinia State Reserve	Low heathland on sandy soil	-39.657930	144.071388
SSS3	Colliers Swamp Conservation Area	Open <i>Eucalyptus viminalis</i> forest	-40.095389	143.960260



Figure 1. Location of Standard Survey Sites on King Island.

2.3 Identifying the collections

Specimens were identified utilising standard equipment and techniques, with comparison to TMAG's reference collections when necessary. Lichens were identified in the laboratory using low-power and high-power microscopy of hand-cut sections of the thallus (vegetative tissue) and apothecia (reproductive structures), mounted in water, 10% KOH, 50% HNO₃, lactophenol cotton blue, ammoniacal erythrosin and Lugol's iodine. Routine chemical analyses using thin-layer chromatography followed standard methods (Orange et al. 2010).

3. Results and Discussion

Appendix 1 lists all vascular plants (appendix 1.1), bryophytes (appendix 1.2) and lichens (appendix 1.3) recorded during the Bush Blitz. Collections made during this Bush Blitz will result in 343 vascular plant specimens representing 197 taxa; 190 bryophyte specimens representing 77 taxa; and 246 lichen specimens representing 168 taxa being added to public collections and to publicly accessible databases.

An additional 12 vascular plant taxa were recorded as observations only (appendix 1.1).

3.1 Un-named or not formalised taxa

Five lichen taxa, already known from other collections, are potentially new to science. Further investigation is required to understand the taxonomy of these. For details see table 2.

Taxon	Comment
<i>Arthothelium</i> sp.	An undescribed species most similar to <i>A. magenteum</i> Kantvilas and collected previously at Woolnorth, north-western Tasmania.
<i>Bacidia</i> sp. 3	An undescribed species, occasionally collected in lowland wet forest and woodland on the Tasmanian mainland.
<i>Coenogonium</i> sp.	An undescribed species, also collected at Stony Head and currently being studied under an ABRS Tactical Taxonomy contract.
<i>Enterographa</i> sp.	An undescribed species previously collected at Woolnorth, north-western Tasmania.
<i>Xanthoria</i> sp.	An undescribed widespread species in southern Australia - Tasmania. It belongs in the <i>Dufourea-Jackelixia</i> clade

3.2 Putative new species (new to science)

No taxa recorded during the survey were considered to be 'putative new species'. In this report, 'putative new species' means an unnamed species that, as far as can be ascertained, was identified as a new species as a direct result of this Bush Blitz.

3.3 Exotic and pest species

Forty two species of introduced vascular plant taxa were recorded during the survey. Three species listed as declared weeds under the *Tasmanian Weed Management Act 1999* were recorded: *Ulex europaeus*, *Carduus pycnocephalus* and *Asparagus scandens*.

Two species of introduced moss were recorded during the survey. For details of exotic species recorded from this Bush Blitz see table 3.

Table 3. Exotic and pest species recorded

Exotic/pest species	Location sighted/observed	Indication of abundance	Comments
Bryophytes			
<i>Eurhynchium praelongum</i>	Kentford Forest Nature Reserve	<i>Occasional</i>	Introduced moss
<i>Pseudoscleropodium purum</i>	Pegarah Nature Reserve	<i>Occasional</i>	Introduced moss
Vascular Plants			
<i>Aira elegantissima</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 2.3 km east of Seal River crossing	<i>Common but inconspicuous due to its diminutive stature</i>	Weed of agriculture and waste places
<i>Aira</i> sp.	SSS3	<i>Common</i>	Observation only
<i>Arum italicum</i>	Kentford Forest Conservation Area	<i>Localised and abundant as a naturalised species at this site</i>	Environmental weed
<i>Asparagus scandens</i>	Kentford Forest Nature Reserve	<i>Common and abundant as a weed in Melaleuca forest</i>	Environmental weed
<i>Briza minor</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Occasional</i>	Weed of agriculture and waste places
<i>Bromus diandrus</i>	Colliers Beach, Red Hut Point Conservation Area	<i>Occasional</i>	Weed of agriculture and waste places
<i>Cakile maritima</i> subsp. <i>maritima</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Common beach weed on King Island</i>	Weed of coastal sand
<i>Cardamine flexuosa</i>	Kentford Forest Conservation Area	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Cardamine hirsuta</i>	Kentford Forest Conservation Area. Approximately 550 m W of Mount Stanley Road	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Carduus pycnocephalus</i>	Stokes Point, Stokes Point Conservation Area, southern most tip of the island	<i>Occasional</i>	Weed of agriculture and waste places
<i>Centaureum erythraea</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Occasional</i>	Weed of agriculture and waste places
<i>Cerastium glomeratum</i>	Lavinia State Reserve, Sea Elephant River	<i>Occasional</i>	Weed of agriculture and waste places
<i>Cerastium vulgare</i>	Kentford Forest Conservation Area. Approximately 550 m W of Mount Stanley Road	<i>Occasional</i>	Weed of agriculture and waste places
<i>Cerastium</i> sp.	SSS1	<i>Occasional</i>	Observation only
<i>Erophila verna</i> subsp. <i>praecox</i>	Calcified Forest, Seal Rocks State Reserve, shrubland north of sandblow	<i>Occasional</i>	Weed of agriculture and waste places
<i>Euphorbia paralias</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Common beach weed on King Island</i>	Weed of coastal sand
<i>Euphorbia pepylus</i>	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Occasional</i>	Weed of agriculture and waste places

<i>Festuca arundinacea</i>	Colliers Swamp, Colliers Swamp Conservation Area, approx. 2 km E of Big Lake	<i>Abundant</i>	Weed of agriculture and waste places
<i>Geranium molle</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 1.5 km east of Seal River crossing	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Holcus lanatus</i>	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Common</i>	Weed of agriculture and waste places
<i>Hypochaeris radicata</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Common</i>	Weed of agriculture and waste places
<i>Juncus capitatus</i>	Lavinia State Reserve. Nine Mile Beach, approximately 5.5 km SSE of Pennys Lagoon	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Leontodon saxatilis</i>	Colliers Swamp, Colliers Swamp Conservation Area, approx. 2 km E of Big Lake	<i>Common</i>	Weed of agriculture and waste places
<i>Lonicera japonica</i>	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Localised</i>	Environmental weed
<i>Lonicera periclymenum</i>	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Localised</i>	Environmental weed
<i>Lysimachia arvensis</i>	Nook Swamps, Lavinia State Reserve, Nook Swamps Track	<i>Common</i>	Weed of agriculture and waste places
<i>Minuartia mediterranea</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 2.3 km east of Seal River crossing	<i>Common</i>	Weed of agriculture and waste places
<i>Muehlenbeckia complexa</i>	Naracoopa Esplanade, approx. 150 m E of the jetty carpark	<i>Localised</i>	Environmental weed
<i>Myosotis sylvatica</i>	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Common and abundant</i>	Weed of agriculture and waste places
<i>Narcissus tazetta</i>	Colliers Swamp Conservation Reserve, along sidetrack from Red Hut Road 5 km from junction with Mount Stanley Road.	<i>Occasional</i>	Environmental weed
<i>Parapholis incurva</i>	Cataraqui Point, Cataraqui Point Conservation Area	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Plantago coronopus</i> subsp. <i>coronopus</i>	Stokes Point Conservation Area, southern most tip of the island	<i>Common on coastal soil</i>	Weed of agriculture and waste places
<i>Poa compressa</i>	Colliers Beach, Red Hut Point Conservation Area	<i>Localised</i>	Weed of agriculture and waste places
<i>Rubus</i> sp.	Pegarah Nature Reserve (informal reserve), Grassy Road, approx. 500 m E of Sea Elephant River	<i>Localised</i>	Weed of agriculture and waste places

<i>Sagina maritima</i>	Seal Rocks State Reserve. Seal Rocks Lookout, approximately 4 km S of Catarqui Pt	<i>Uncommon</i>	Weed of agriculture and waste places
<i>Sisyrinchium micranthum</i>	c. 4.3 km south on the Nook Swamps Track from the junction with the Martha Lavinia Road.	<i>Localised</i>	Weed of agriculture and waste places
<i>Solanum pseudocapsicum</i>	Kentford Forest Conservation Area	<i>Localised</i>	Environmental weed
<i>Sonchus asper</i>	Kentford Forest Nature Reserve	<i>Common</i>	Weed of agriculture and waste places
<i>Taraxacum officinale</i>	Nook Swamps, Lavinia State Reserve, Nook Swamps Track	<i>Common</i>	Weed of agriculture and waste places
<i>Ulex europaeus</i>	Kentford Forest Nature Reserve	<i>Occasional and localised</i>	Weed of agriculture and the environment
<i>Vulpia fasciculata</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	<i>Occasional</i>	Weed of agriculture and waste places
<i>Zantedeschia aethiopica</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 1.5 km east of Seal River crossing	<i>Localised</i>	Environmental weed

3.4 Threatened species

Seven species listed as rare and two listed as vulnerable under the Tasmanian *Threatened Species Protection Act 1995* were recorded during the survey. No species listed under the EPBC were recorded. For details of the threatened species recorded during this Bush Blitz see table 4.

Species	Listing status and level (EBPC, State/Territory)	Location sighted/observed	Indication of abundance
<i>Blechnum cartilagineum</i>	Vulnerable (TSPA 1995)	Pegarah Forest ACCP; Lappa Road circa 2.5 km north from junction with Pegarah Road.	Occasional
<i>Elaeocarpus reticulatus</i>	Rare (TSPA 1995)	Pegarah Forestry, State Forest adjacent to Lappa Road; Kentford Forest Nature Reserve; Kentford Forest Conservation Area	Common
<i>Hedycarya angustifolia</i>	Rare (TSPA 1995)	Colliers Swamp Conservation Area. Colliers Swamp, approximately 1.5 km east of Seal River crossing	Common
<i>Leucopogon affinis</i>	Rare (TSPA 1995)	Colliers Swamp Conservation Area. Colliers Swamp, approximately 2.3 km east of Seal River crossing	Rare
<i>Parietaria debilis</i>	Rare (TSPA 1995)	Calcified Forest, Seal Rocks State Reserve, shrubland north of sandblow	Common
<i>Phyllangium divergens</i>	Vulnerable (TSPA 1995)	Lavinia State Reserve. Nine Mile Beach, approximately	Rare

		5.5 km SSE of Pennys Lagoon	
<i>Styloidium beaugleholei</i>	Rare (TSPA 1995)	Counsel Hill Conservation Area. East side of Reekara Road, just west of Counsel Hill	Locally abundant
<i>Styloidium despectum</i>	Rare (TSPA 1995)	Kentford Forest Conservation Area. Approximately 550 m W of Mount Stanley Road	Uncommon
<i>Utricularia tenella</i>	Rare (TSPA 1995)	Counsel Hill Conservation Area. East side of Reekara Road, just west of Counsel Hill	Locally abundant

3.5 Range extensions

Several vascular plants and bryophytes not previously recorded from King Island were collected. Due to incomplete cataloguing of lichen specimens in Australian herbaria it is difficult to assess the status of range extensions and it is therefore not appropriate to record them here. The fern, *Dennstaedtia davallioides*, and lichen, *Arthonia nigrorufa* represent new records for Tasmania. For details of the range extensions recorded during this Bush Blitz see table 5.

Table 5. Range extensions or significant infill in distribution records for species			
Species	Location sighted/observed	Distance from nearest known record (km)	Comments
Bryophytes			
<i>Amblystegium serpens</i>	Red Hut Point Conservation Area, E end of Colliers Beach	250 km	Nearest location is Melbourne, Victoria
<i>Austrohondaella limata</i>	Kentford Forest Nature Reserve	130 Km	Nearest location is Seventeen Mile Plain, Tasmania
<i>Calliergonella cuspidata</i>	Grassy, Acacia Street roadside	240 km	Nearest location is Gowrie Park, Tasmania
<i>Phascopsis rubicunda</i>	Seal Rocks State Reserve, near Seal Rocks lookout	390 km	Nearest location is Dip Swamp, Victoria
<i>Pseudoscleropodium purum</i>	Pegarah Nature Reserve	180 km	Nearest location is Wynyard, Tasmania
<i>Rhynchostegium muriculatum</i>	Kentford Forest Conservation Area	140 km	Nearest location is Stanley, Tasmania
<i>Rosulabryum capillare</i>	Martha Lavinia Road	140 km	Nearest location is Smithton, Tasmania
<i>Rosulabryum subtomentosum</i>	Surprise Bay; Calcified Forest Track; Pegarah State Forest, Lappa Road; Seal Rocks State Reserve, near Seal Rocks lookout; Counsel Hill Conservation Area, W slope of Counsel Hill; Yellow Rock River, near river mouth	130 km	Nearest location is Cape Otway, Victoria
<i>Tortula muralis</i>	Currie Cemetery; Pennys Lagoon, E side at parking area	180 km	Nearest location is Lorne, Victoria
<i>Triquetrella paradoxa</i>	Pennys Lagoon, E side at parking area	110 km	Nearest location is Cape Otway, Victoria
<i>Zygodon menziesii</i>	Calcified Forest Track; Yellow Rock River, near river mouth; Colliers Swamp; Currie Cemetery	110 km	Nearest location is Cape Otway, Victoria

<i>Chiloscyphus gippslandicus</i>	Colliers Swamp; Kentford Forest Nature Reserve	160 km	Nearest location is Sisters Beach, Tasmania
<i>Frullania clavata</i>	Nook Swamps Track, SW of Lavinia Point	130 km	Nearest location is Cape Otway, Victoria
<i>Frullania falciloba</i>	Calcified Forest Track; Pegarah Nature Reserve; Kentford Forest Nature Reserve	130 km	Nearest location is Dismal Swamp, Tasmania
<i>Frullania rostrata</i>	Colliers Swamp	150 km	Nearest location is Balfour, Tasmania
<i>Metzgeria rigida</i>	Yellow Rock River, near river mouth; Pegarah Nature Reserve	120 km	Nearest location is Cape Otway, Victoria
Lichens			
<i>Arthonia nigrorufa</i> Müll.Arg.	Pennys Lagoon	-	New record for Tasmania. Previously only known from Victoria
Vascular Plants			
<i>Acaena pallida</i>	Red Hut Point Conservation Area; Nine Mile Beach, Lavinia State Reserve; Tufa Terraces, Catarauqui Point Conservation Area	110 km	Nearest location is Marrawah, Tasmania
<i>Allocasuarina littoralis</i>	Seal Rocks State Reserve, Calcified Forest car park	120 km	Nearest location is Seventeen Mile Plain, Tasmania
<i>Arum italicum</i>	Kentford Forest Conservation Area	160 km	Nearest location is Rocky Cape, Tasmania
<i>Blechnum cartilagineum</i>	Pegarah Forest ACCP; Lappa Road circa 2.5 km north from junction with Pegarah Road.	130 km	Nearest location is Cape Otway, Victoria
<i>Cardamine paucijuga</i>	Catarauqui Point Conservation Area, Tufa Soaks	130 km	Nearest location is Seventeen Mile Plain, Tasmania
<i>Cerastium vulgare</i>	Kentford Forest Conservation Area. Approximately 550 m W of Mount Stanley Road	120 km	Nearest location is Woolnorth, Tasmania
<i>Crassula peduncularis</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 2.3 km east of Seal River crossing	220 km	Nearest location is Portsea, Victoria
<i>Dennstaedtia davallioides</i>	Kentford Forest Conservation Area	130 km	New record for Tasmania. Nearest location is Cape Otway, Victoria. New record for Tasmania
<i>Erophila verna</i> subsp. <i>praecox</i>	Calcified Forest, Seal Rocks State Reserve, shrubland north of sandblow	270 km	Nearest location is Portland, Victoria
<i>Hydrocotyle capillaris</i>	Seal Rocks State Reserve. Seal Rocks Lookout, approximately 4 km S of Catarauqui Pt	115 km	Nearest location is Marrawah, Tasmania
<i>Luzula meridionalis</i>	c. 4.3 km south on the Nook Swamps Track from the junction with the Martha Lavinia Road; Nine Mile Beach	140 km	Nearest location is Stanley, Tasmania
<i>Muehlenbeckia complexa</i>	Naracoopa, Naracoopa Esplanade, approx. 150 m E of the jetty carpark	280 km	Nearest location is Woori Yallock, Victoria
<i>Oxalis radicata</i>	Colliers Swamp Conservation Area. Colliers Swamp, approximately 2.3 km east of Seal River crossing	90 km	Nearest location is Woolnorth, Tasmania
<i>Phyllangium divergens</i>	Lavinia State Reserve. Nine Mile Beach, approximately 5.5 km SSE of Pennys Lagoon	130 km	Nearest location is Marrawah, Tasmania

<i>Poa compressa</i>	Colliers Beach, Red Hut Point Conservation Area	230 km	Nearest location is Zeehan, Tasmania
<i>Potamogeton drummondii</i>	Nook Swamps, Lavinia State Reserve, Nook Swamps Track	190 km	Nearest location is Lake Kariah, Victoria
<i>Stackhousia spathulata</i>	Seal Rocks State Reserve. Seal Rocks Lookout, approximately 4 km S of Cataragui Pt	90 km	Nearest location is Three Hummock Island, Tasmania
<i>Tetragonia tetragonoides</i>	Seal Rocks State Reserve, Calcified Forest Track between carpark and Calcified Forest	220 km	Nearest location is Phillip Island, Victoria
<i>Thyridia repens</i>	Colliers Swamp, Colliers Swamp Conservation Area, approx. 2 km E of Big Lake	150 km	Nearest location is Cape Otway, Victoria
<i>Vulpia fasciculata</i>	Nine Mile Beach, Lavinia State Reserve, approx. 4 km south of Lavinia Point	110 km	Nearest location is Cape Otway, Victoria.

3.6 Genetic information

No genetic sampling was undertaken.

4. Information on species lists

Due to incomplete cataloguing of lichen specimens in Australian herbaria it is difficult to assess the status of range extensions and it is therefore not appropriate to record them here.

5. Information for land managers

The mosaic of low heathland, scrub and forest at Counsel Hill, showing a range of drainages, aspects, and time since last fire, was a vascular plant biodiversity hotspot. Two of nine threatened taxa located during the survey were collected here.

Nearly every reserve visited during the survey, including a privately managed one, had serious invasive weed infestations. It appears that historical grazing of cattle throughout the island has spread a variety of agricultural weeds, particularly exotic grasses, *Leontodon saxatilis*, *Rubus* sp. and *Cerastium* species. Given the Islands history of agriculture and widescale land clearing it is not surprising to have recorded a high number of introduced species. Large tracts of the island consist of improved pasture and, consequently, contain many species of agricultural weeds. Most of these taxa are annual and perennial herbs and grasses.

A few extremely aggressive weeds were encountered that formed nearly 100% coverage in some areas. The standout of these was *Asparagus scandens*, which completely smothered large sections of the understory vegetation at Kentford Forest NR. The New Zealand native mirrorbush, *Coprosma repens*, was widespread in most areas of the island and seemed to be successfully competing for canopy space with the native *Melaleuca ericifolia*.

The introduced species, *Solanum pseudocapsicum*, was a dominant component of the floodplain vegetation of the Seal River at Kentford Forest Conservation Area. The species is bird dispersed and is likely to spread from this infestation into similar nearby habitats.

As in much of coastal Tasmania, *Euphorbia paralias* was extremely common along the top of the beaches and on frontal dunes.

Overgrazing by native marsupials appeared to be having an impact on herbaceous flowering plants, with some orchid populations having few or no flowering individuals that had not been grazed down to the ground, for example *Caladenia latifolia* at Nine Mile Beach.

6. Other significant findings

Discovery of the ground-fern, *Dennstaedtia davallioides*, at Kentford Forest Conservation Area represents a new record of a native fern for Tasmania. The species is widespread on the east coast of mainland Australia where it grows on the margins of rainforest and in stream bank habitats and humid gullies in open forest. The closest known populations occur, approximately 140 km away, at Cape Otway, Victoria. The lichen, *Arthonia nigrorufa* represents a new record for Tasmania.

7. Conclusions

Access to the reserve estate of King Island during the 2023 Bush Blitz in Tasmania provided an opportunity to record the biodiversity of an area of the State that has had limited specimen based biological sampling. A wide range of habitats were surveyed and resulted in the discovery of a high diversity of vascular plants, bryophytes and lichens. Several threatened species and species new to science were recorded during the survey expanding our knowledge of the flora of the area. Numerous species were significant range extensions and included taxa that had previously not been recorded from King Island. Many introduced species were recorded and can be linked to the Islands past and current farming use.

Acknowledgements

We thank the Bush Blitz team, especially Kate Gillespie and Helen Cross, for their fine-tuned organisational and support skills. We thank our colleagues from the Tasmanian Museum and Art Gallery and National Herbarium of Victoria, especially those that supported us back in the office. We also thank Earthwatch staff Jessie Holden and Sandra McCullough and our embedded teachers and BHP staff for their company and assistance during the survey. Shelley Graham and Jigs Denby, Tasmanian Parks and Wildlife Service, are thanked for sharing their knowledge of the Island and providing advice on locations to visit. The King Island community, including the knowledgeable and helpful Field Naturalists, are thanked for their enthusiasm and support for our visit. Margaret Batey deserves special thanks for her dedication to furthering our knowledge of the flora of King Island.

References

- Orange, A., James, P.W. & White, F.J.** 2010: *Microchemical Methods for the Identification of Lichens*. British Lichen Society, London: 101 pp.
- Braun-Blanquet, J.** 1928: *Pflanzensoziologie. Grundzüge der Vegetationskunde*. Berlin: Springer. 330 pp.

Appendix 1.1 List of vascular Plants recorded during the King Island Bush Blitz					
Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Aizoaceae	<i>Carpobrotus rossii</i>	No	No	No	No
Aizoaceae	<i>Disphyma crassifolium</i> subsp. <i>clavellatum</i>	No	No	No	No
Aizoaceae	<i>Tetragonia implexicoma</i>	No	No	No	No
Aizoaceae	<i>Tetragonia tetragonoides</i>	No	No	No	No
Amaranthaceae	<i>Atriplex cinerea</i>	No	No	No	No
Amaranthaceae	<i>Tecticornia arbuscula</i>	No	No	No	No
Amaryllidaceae	<i>Narcissus tazetta</i>	No	No	No	Yes
Apiaceae	<i>Apium prostratum</i> var. <i>filiforme</i>	No	No	No	No
Apiaceae	<i>Daucus glochidiatus</i>	No	No	No	No
Apocynaceae	<i>Alyxia buxifolia</i>	No	No	No	No
Apocynaceae	<i>Vinca major</i>	No	No	No	No
Araceae	<i>Arum italicum</i>	No	No	No	Yes
Araceae	<i>Lemna disperma</i>	No	No	No	No
Araceae	<i>Lemna trisulca</i>	No	No	No	No
Araceae	<i>Zantedeschia aethiopica</i>	No	No	No	Yes
Araliaceae	<i>Hydrocotyle capillaris</i>	No	No	No	No
Araliaceae	<i>Hydrocotyle hirta</i>	No	No	No	No
Asparagaceae	<i>Asparagus scandens</i>	No	No	No	Yes
Asteraceae	<i>Actites megalocarpus</i>	No	No	No	No
Asteraceae	<i>Brachyscome diversifolia</i>	No	No	No	No
Asteraceae	<i>Carduus pycnocephalus</i>	No	No	No	Yes
Asteraceae	<i>Euchiton involucratus</i>	No	No	No	No
Asteraceae	<i>Helichrysum luteoalbum</i>	No	No	No	No
Asteraceae	<i>Hypochaeris radicata</i>	No	No	No	Yes
Asteraceae	<i>Lagenophora stipitata</i>	No	No	No	No
Asteraceae	<i>Leontodon saxatilis</i>	No	No	No	Yes
Asteraceae	<i>Leucophyta brownii</i>	No	No	No	No
Asteraceae	<i>Nablonium calyceroides</i>	No	No	No	No
Asteraceae	<i>Olearia lepidophylla</i>	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Asteraceae	Olearia phlogopappa	No	No	No	No
Asteraceae	Ozothamnus turbinatus	No	No	No	No
Asteraceae	Senecio pinnatifolius var. maritimus	No	No	No	No
Asteraceae	Senecio spathulatus var. spathulatus	No	No	No	No
Asteraceae	Sonchus asper	No	No	No	Yes
Asteraceae	Taraxacum officinale	No	No	No	Yes
Azollaceae	Azolla rubra	No	No	No	No
Blechnaceae	Blechnum cartilagineum	No	No	vulnerable	No
Blechnaceae	Blechnum wattsii	No	No	No	No
Boraginaceae	Myosotis australis subsp. australis	No	No	No	No
Boraginaceae	Myosotis sylvatica	No	No	No	Yes
Brassicaceae	Cakile maritima subsp. maritima	No	No	No	Yes
Brassicaceae	Cardamine flexuosa	No	No	No	Yes
Brassicaceae	Cardamine hirsuta	No	No	No	Yes
Brassicaceae	Cardamine paucijuga	No	No	No	No
Brassicaceae	Erophila verna subsp. praecox	No	No	No	Yes
Campanulaceae	Lobelia irrigua	No	No	No	No
Campanulaceae	Lobelia pedunculata	No	No	No	No
Campanulaceae	Wahlenbergia gracilentia	No	No	No	No
Caprifoliaceae	Lonicera japonica	No	No	No	Yes
Caprifoliaceae	Lonicera periclymenum	No	No	No	Yes
Caryophyllaceae	Cerastium glomeratum	No	No	No	Yes
Caryophyllaceae	Cerastium vulgare	No	No	No	Yes
Caryophyllaceae	Colobanthus apetalus var. apetalus	No	No	No	No
Caryophyllaceae	Minuartia mediterranea	No	No	No	Yes
Caryophyllaceae	Sagina maritima	No	No	No	Yes
Caryophyllaceae	Scleranthus biflorus	No	No	No	No
Casuarinaceae	Allocasuarina littoralis	No	No	No	No
Casuarinaceae	Allocasuarina monilifera	No	No	No	No
Casuarinaceae	Allocasuarina zephyrea	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Celastraceae	Stackhousia monogyna	No	No	No	No
Celastraceae	Stackhousia spathulata	No	No	No	No
Centrolepidaceae	Centrolepis aristata	No	No	No	No
Centrolepidaceae	Centrolepis fascicularis	No	No	No	No
Centrolepidaceae	Centrolepis strigosa subsp. strigosa	No	No	No	No
Crassulaceae	Crassula peduncularis	No	No	No	No
Crassulaceae	Crassula sieberiana	No	No	No	No
Cunoniaceae	Bauera rubioides	No	No	No	No
Cyatheaceae	Cyathea australis subsp. australis	No	No	No	No
Cyperaceae	Carex appressa	No	No	No	No
Cyperaceae	Carex pumila	No	No	No	No
Cyperaceae	Eleocharis acuta	No	No	No	No
Cyperaceae	Ficinia nodosa	No	No	No	No
Cyperaceae	Isolepis marginata	No	No	No	No
Cyperaceae	Isolepis subtilissima	No	No	No	No
Cyperaceae	Lepidosperma concavum	No	No	No	No
Cyperaceae	Lepidosperma gladiatum	No	No	No	No
Cyperaceae	Machaerina acuta	No	No	No	No
Dennstaedtiaceae	Dennstaedtia davallioides	No	No	No	No
Dennstaedtiaceae	Histiopteris incisa	No	No	No	No
Dennstaedtiaceae	Hypolepis glandulifera	No	No	No	No
Dennstaedtiaceae	Hypolepis rugosula	No	No	No	No
Dicksoniaceae	Dicksonia antarctica	No	No	No	No
Dilleniaceae	Hibbertia procumbens	No	No	No	No
Droseraceae	Drosera auriculata	No	No	No	No
Droseraceae	Drosera pygmaea	No	No	No	No
Elaeocarpaceae	Elaeocarpus reticulatus	No	No	rare	No
Ericaceae	Epacris impressa	No	No	No	No
Ericaceae	Epacris obtusifolia	No	No	No	No
Ericaceae	Leptecophylla oxycedrus	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Ericaceae	Leucopogon affinis	No	No	rare	No
Ericaceae	Leucopogon parviflorus	No	No	No	No
Ericaceae	Sprengelia incarnata	No	No	No	No
Ericaceae	Styphelia ericoides	No	No	No	No
Euphorbiaceae	Amperea xiphoclada var. xiphoclada	No	No	No	No
Euphorbiaceae	Euphorbia paralias	No	No	No	Yes
Euphorbiaceae	Euphorbia peplus	No	No	No	Yes
Fabaceae	Acacia longifolia subsp. longifolia	No	No	No	No
Fabaceae	Acacia longifolia subsp. sophorae	No	No	No	No
Fabaceae	Acacia mucronata subsp. dependens	No	No	No	No
Fabaceae	Acacia suaveolens	No	No	No	No
Fabaceae	Acacia verticillata subsp. verticillata	No	No	No	No
Fabaceae	Aotus ericoides	No	No	No	No
Fabaceae	Dillwynia glaberrima	No	No	No	No
Fabaceae	Gompholobium huegelii	No	No	No	No
Fabaceae	Pultenaea juniperina	No	No	No	No
Fabaceae	Swainsona lessertiifolia	No	No	No	No
Fabaceae	Ulex europaeus	No	No	No	Yes
Gentianaceae	Centaurium erythraea	No	No	No	Yes
Gentianaceae	Sebaea albidiflora	No	No	No	No
Gentianaceae	Sebaea ovata	No	No	No	No
Geraniaceae	Geranium molle	No	No	No	Yes
Geraniaceae	Geranium solanderi	No	No	No	No
Geraniaceae	Geranium sp.	No	No	No	No
Gleicheniaceae	Gleichenia microphylla	No	No	No	No
Hemerocallidaceae	Dianella tasmanica	No	No	No	No
Hemerocallidaceae	Thelionema caespitosum	No	No	No	No
Iridaceae	Patersonia fragilis	No	No	No	No
Iridaceae	Sisyrinchium micranthum	No	No	No	Yes
Juncaceae	Juncus caespiticius	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Juncaceae	<i>Juncus capitatus</i>	No	No	No	Yes
Juncaceae	<i>Juncus planifolius</i>	No	No	No	No
Juncaceae	<i>Juncus procerus</i>	No	No	No	No
Juncaceae	<i>Luzula meridionalis</i>	No	No	No	No
Lauraceae	<i>Cassytha glabella</i> f. <i>glabella</i>	No	No	No	No
Lauraceae	<i>Cassytha pubescens</i>	No	No	No	No
Lentibulariaceae	<i>Utricularia lateriflora</i>	No	No	No	No
Lentibulariaceae	<i>Utricularia tenella</i>	No	No	rare	No
Lindsaeaceae	<i>Lindsaea linearis</i>	No	No	No	No
Loganiaceae	<i>Phyllangium divergens</i>	No	No	vulnerable	No
Luzuriagaceae	<i>Drymophila cyanocarpa</i>	No	No	No	No
Lycopodiaceae	<i>Lycopodium deuterodensum</i>	No	No	No	No
Mazaceae	<i>Mazus pumilio</i>	No	No	No	No
Monimiaceae	<i>Hedycarya angustifolia</i>	No	No	rare	No
Myrsinaceae	<i>Lysimachia arvensis</i>	No	No	No	Yes
Myrtaceae	<i>Calytrix tetragona</i>	No	No	No	No
Myrtaceae	<i>Eucalyptus viminalis</i> subsp. <i>viminalis</i>	No	No	No	No
Myrtaceae	<i>Leptospermum laevigatum</i>	No	No	No	No
Myrtaceae	<i>Leptospermum scoparium</i>	No	No	No	No
Myrtaceae	<i>Melaleuca ericifolia</i>	No	No	No	No
Myrtaceae	<i>Melaleuca squarrosa</i>	No	No	No	No
Onagraceae	<i>Epilobium billardioreanum</i> subsp. <i>billardioreanum</i>	No	No	No	No
Orchidaceae	<i>Caladenia latifolia</i>	No	No	No	No
Orchidaceae	<i>Calochilus robertsonii</i>	No	No	No	No
Orchidaceae	<i>Pterostylis pedunculata</i>	No	No	No	No
Oxalidaceae	<i>Oxalis radicata</i>	No	No	No	No
Oxalidaceae	<i>Oxalis rubens</i>	No	No	No	No
Phrymaceae	<i>Thyridia repens</i>	No	No	No	No
Phyllanthaceae	<i>Phyllanthus gunnii</i>	No	No	No	No
Phyllanthaceae	<i>Poranthera microphylla</i>	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Pittosporaceae	Billardiera macrantha	No	No	No	No
Pittosporaceae	Bursaria spinosa subsp. spinosa	No	No	No	No
Plantaginaceae	Plantago bellidioides	No	No	No	No
Plantaginaceae	Plantago coronopus subsp. coronopus	No	No	No	Yes
Poaceae	Aira elegantissima	No	No	No	Yes
Poaceae	Austrofestuca littoralis	No	No	No	No
Poaceae	Austrostipa stipoides	No	No	No	No
Poaceae	Briza minor	No	No	No	Yes
Poaceae	Bromus diandrus	No	No	No	Yes
Poaceae	Festuca arundinacea	No	No	No	Yes
Poaceae	Holcus lanatus	No	No	No	Yes
Poaceae	Parapholis incurva	No	No	No	Yes
Poaceae	Poa compressa	No	No	No	Yes
Poaceae	Spinifex sericeus	No	No	No	No
Poaceae	Vulpia fasciculata	No	No	No	Yes
Polygalaceae	Comesperma volubile	No	No	No	No
Polygonaceae	Muehlenbeckia complexa	No	No	No	Yes
Potamogetonaceae	Potamogeton drummondii	No	No	No	No
Proteaceae	Banksia marginata	No	No	No	No
Pteridaceae	Pteris epaleata	No	No	No	No
Pteridaceae	Pteris tremula	No	No	No	No
Ranunculaceae	Clematis aristata	No	No	No	No
Ranunculaceae	Clematis decipiens	No	No	No	No
Ranunculaceae	Clematis microphylla	No	No	No	No
Restionaceae	Baloskion tetraphyllyum	No	No	No	No
Restionaceae	Empodisma minus	No	No	No	No
Rhamnaceae	Pomaderris apetala	No	No	No	No
Rosaceae	Acaena novae-zelandiae	No	No	No	No
Rosaceae	Acaena pallida	No	No	No	No
Rosaceae	Rubus sp.	No	No	No	Yes

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Rutaceae	<i>Boronia parviflora</i>	No	No	No	No
Rutaceae	<i>Cyanothamnus anemonifolius</i> subsp. <i>variabilis</i>	No	No	No	No
Rutaceae	<i>Nematolepis squamea</i> subsp. <i>squamea</i>	No	No	No	No
Rutaceae	<i>Zieria arborescens</i> subsp. <i>arborescens</i>	No	No	No	No
Scrophulariaceae	<i>Myoporum insulare</i>	No	No	No	No
Selaginellaceae	<i>Selaginella uliginosa</i>	No	No	No	No
Solanaceae	<i>Solanum laciniatum</i>	No	No	No	No
Solanaceae	<i>Solanum pseudocapsicum</i>	No	No	No	Yes
Stylidiaceae	<i>Stylidium beaugleholei</i>	No	No	rare	No
Stylidiaceae	<i>Stylidium despectum</i>	No	No	rare	No
Theophrastaceae	<i>Samolus repens</i> var. <i>repens</i>	No	No	No	No
Thymelaeaceae	<i>Pimelea drupacea</i>	No	No	No	No
Thymelaeaceae	<i>Pimelea linifolia</i>	No	No	No	No
Thymelaeaceae	<i>Pimelea serpyllifolia</i>	No	No	No	No
Urticaceae	<i>Australina pusilla</i> subsp. <i>pusilla</i>	No	No	No	No
Urticaceae	<i>Parietaria debilis</i>	No	No	rare	No
Urticaceae	<i>Urtica incisa</i>	No	No	No	No
Violaceae	<i>Viola hederacea</i> subsp. <i>hederacea</i>	No	No	No	No
Vascular plants recorded only as observations					
Asteraceae	<i>Senecio biserratus</i>	No	No	No	No
Caryophyllaceae	<i>Cerastium</i> sp.	No	No	No	Yes
Cyperaceae	<i>Gahnia sieberiana</i>	No	No	No	No
Cyperaceae	<i>Lepidosperma filiforme</i>	No	No	No	No
Dilleniaceae	<i>Hibbertia</i> sp.	No	No	No	No
Ericaceae	<i>Monotoca elliptica</i>	No	No	No	No
Fabaceae	<i>Acacia melanoxylon</i>	No	No	No	No
Juncaceae	<i>Juncus</i> sp.	No	No	No	No
Orchidaceae	<i>Caladenia</i> sp.	No	No	No	No
Orchidaceae	<i>Pyrorchis nigricans</i>	No	No	No	No
Poaceae	<i>Aira</i> sp.	No	No	No	Yes

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/pest
Pteridaceae	Pteridium esculentum subsp. esculentum	No	No	No	No
Appendix 1.2 List of bryophytes recorded during the King Island Bush Blitz					
Family	Species	Putative r	Threatened (E	Threatened (\$	Exotic/p
Mosses					
Daltoniaceae	Achrophyllum dentatum	No	No	No	No
Amblystegiaceae	Amblystegium serpens	No	No	No	No
Hypnaceae	Austrohondaella limata	No	No	No	No
Pottiaceae	Barbula calycina	No	No	No	No
Brachytheciaceae	Brachythecium sp.	No	No	No	No
Bryaceae	Bryum sp.1	No	No	No	No
Bryaceae	Bryum sp.2	No	No	No	No
Bryaceae	Bryum sp.3	No	No	No	No
Pylaisiaceae	Calliergonella cuspidata	No	No	No	No
Daltoniaceae	Calyptrochaeta apiculata	No	No	No	No
Lembophyllaceae	Camptochaete arbuscula var. arbuscula	No	No	No	No
Lembophyllaceae	Camptochaete deflexa	No	No	No	No
Leucobryaceae	Campylopus bicolor	No	No	No	No
Leucobryaceae	Campylopus introflexus	No	No	No	No
Leucobryaceae	Campylopus pallidus	No	No	No	No
Ditrichaceae	Ceratodon purpureus	No	No	No	No
Amblystegiaceae	Cratoneuroopsis relaxa	No	No	No	No
Dicranaceae	Dicranoloma billardierei	No	No	No	No
Pottiaceae	Didymodon australasiae	No	No	No	No
Amblystegiaceae	Drepanocladus sp.	No	No	No	No
Brachytheciaceae	Eurhynchium praelongum	No	No	No	Yes
Fissidentaceae	Fissidens leptocladus	No	No	No	No
Fissidentaceae	Fissidens tenellus	No	No	No	No
Bryaceae	Gemmabryum sp.1	No	No	No	No
Bryaceae	Gemmabryum sp.2	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Hypnaceae	Hypnum cupressiforme	No	No	No	No
Lembophyllaceae	Lembophyllum clandestinum	No	No	No	No
Orthotrichaceae	Macrocoma tenue subsp. tenue	No	No	No	No
Pottiaceae	Phascopsis rubicunda	No	No	No	No
Bartramiaceae	Philonotis tenuis	No	No	No	No
Mielichhoferiaceae	Pohlia sp.	No	No	No	No
Polytrichaceae	Polytrichum commune	No	No	No	No
Brachytheciaceae	Pseudoscleropodium purum	No	No	No	Yes
Ptychomniaceae	Ptychomnion aciculare	No	No	No	No
Racopilaceae	Racopilum cuspidigerum var. convolutaceum	No	No	No	No
Sematophyllaceae	Rhaphidorrhynchium amoenum var. amoenum	No	No	No	No
Brachytheciaceae	Rhynchostegium muriculatum	No	No	No	No
Brachytheciaceae	Rhynchostegium tenuifolium	No	No	No	No
Bryaceae	Rosulabryum billardierei	No	No	No	No
Bryaceae	Rosulabryum capillare	No	No	No	No
Bryaceae	Rosulabryum subtomentosum	No	No	No	No
Sematophyllaceae	Sematophyllum homomallum	No	No	No	No
Sphagnaceae	Sphagnum novozelandicum	No	No	No	No
Pottiaceae	Syntrichia antarctica	No	No	No	No
Pottiaceae	Syntrichia papillosa	No	No	No	No
Splachnaceae	Tayloria octoblepharum	No	No	No	No
Thuidiaceae	Thuidiopsis furfurosa	No	No	No	No
Thuidiaceae	Thuidiopsis sparsa	No	No	No	No
Pottiaceae	Tortella sp.	No	No	No	No
Pottiaceae	Tortella cirrhata	No	No	No	No
Pottiaceae	Tortula muralis	No	No	No	No
Pottiaceae	Trichostomum sp.	No	No	No	No
Pottiaceae	Triquetrella papillata	No	No	No	No
Pottiaceae	Triquetrella paradoxa	No	No	No	No
Sematophyllaceae	Warburgiella leucocytus	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Lembophyllaceae	Weymouthia mollis	No	No	No	No
Pylaisiadelphaceae	Wijkia extenuata	No	No	No	No
Orthotrichaceae	Zygodon menziesii	No	No	No	No
Liverworts					
Lophocoleaceae	Chiloscyphus gippslandicus	No	No	No	No
Lophocoleaceae	Chiloscyphus semiteres	No	No	No	No
Lophocoleaceae	Chiloscyphus sp.1	No	No	No	No
Lophocoleaceae	Chiloscyphus sp.2	No	No	No	No
Lophocoleaceae	Chiloscyphus sp.3	No	No	No	No
Frullaniaceae	Frullania clavata	No	No	No	No
Frullaniaceae	Frullania falciloba	No	No	No	No
Frullaniaceae	Frullania probosciphora	No	No	No	No
Frullaniaceae	Frullania rostrata	No	No	No	No
Lophocoleaceae	Heteroscyphus sp.1	No	No	No	No
Lophocoleaceae	Heteroscyphus sp.2	No	No	No	No
Lepidoziaceae	Kurzia sp.	No	No	No	No
Lepidoziaceae	Lepidozia sp.	No	No	No	No
Marchantiaceae	Marchantia berteroana	No	No	No	No
Metzgeriaceae	Metzgeria furcata	No	No	No	No
Metzgeriaceae	Metzgeria rigida	No	No	No	No
Plagiochilaceae	Plagiochila fasciculata	No	No	No	No
Radulaceae	Radula sp.1	No	No	No	No
Radulaceae	Radula sp.2	No	No	No	No
Appendix 1.3 List of lichens recorded during the King Island Bush Blitz					
Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	Amandinea decedens (Nyl.) Blaha & H.Mayrhofer	No	No	No	No
N/A	Amandinea punctata (Hoffm.) Coppins & Scheid.	No	No	No	No
N/A	Angiactis banksiae (Müll.Arg.) Kantvilas & Stajic	No	No	No	No
N/A	Anisomeridium disjunctum P.M.McCarthy & Kantvilas	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	<i>Arthonia ilicina</i> Taylor	No	No	No	No
N/A	<i>Arthonia</i> sp. 1	No	No	No	No
N/A	<i>Arthonia</i> sp. 2	No	No	No	No
N/A	<i>Arthothelium ampliatum</i> (C.Knight & Mitt.) Müll.Arg.	No	No	No	No
N/A	<i>Arthothelium endoaurantiacum</i> Makhija & Patw.	No	No	No	No
N/A	<i>Arthothelium</i> sp.	No	No	No	No
N/A	<i>Austroparmelina conlabrosa</i> (Hale) A.Crespo, Divakar & Elix	No	No	No	No
N/A	<i>Austroparmelina pseudorelicina</i> (Jatta) A.Crespo, Divakar & Elix	No	No	No	No
N/A	<i>Bacidia laurocerasi</i> (Delise ex Duby) Zahlbr.	No	No	No	No
N/A	<i>Bacidia septosior</i> (Nyl.) Zahlbr.	No	No	No	No
N/A	<i>Bacidia</i> sp. 1	No	No	No	No
N/A	<i>Bacidia</i> sp. 2	No	No	No	No
N/A	<i>Bacidia</i> sp. 3	No	No	No	No
N/A	<i>Bacidia</i> sp. 4	No	No	No	No
N/A	<i>Bacidia</i> sp. 5	No	No	No	No
N/A	<i>Bacidia wellingtonii</i> (Stirt.) D.J.Galloway	No	No	No	No
N/A	<i>Bactrospora metabola</i> (Nyl.) Egea & Torrente	No	No	No	No
N/A	<i>Bapalmuia buchananii</i> (Stirt.) Kalb & Lücking	No	No	No	No
N/A	<i>Buellia</i> ? <i>extenuatella</i> Elix & Kantvilas	No	No	No	No
N/A	<i>Buellia aeruginosa</i> A.Nordin, Owe-Larsson & Elix	No	No	No	No
N/A	<i>Buellia</i> sp. 1	No	No	No	No
N/A	<i>Buellia</i> sp. 2	No	No	No	No
N/A	<i>Buellia</i> sp. 3	No	No	No	No
N/A	<i>Buellia stelluta</i> (Taylor) Mudd var. <i>stellulata</i>	No	No	No	No
N/A	<i>Caloplaca</i> cf. <i>lactea</i> (A.Massal.) Zahlbr.	No	No	No	No
N/A	<i>Caloplaca gallowayi</i> S.Y.Kondr., Kärnefelt & Filson	No	No	No	No
N/A	<i>Caloplaca gilfillaniorum</i> Kantvilas & S.Y.Kondr.	No	No	No	No
N/A	<i>Caloplaca holocarpa</i> (Hoffm.) A.E.Wade	No	No	No	No
N/A	<i>Caloplaca jackelii</i> S.Y.Kondr., Kärnefelt & A.Thell	No	No	No	No
N/A	<i>Caloplaca pulcherrima</i> (Müll.Arg.) S.Y.Kondr. & Kärnefelt	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	Caloplaca sp.	No	No	No	No
N/A	Caloplaca sublobulata (Nyl.) Zahlbr.	No	No	No	No
N/A	Caloplaca subluteoalba S.Y.Kondr. & Kärnefelt	No	No	No	No
N/A	Caloplaca tomareeana S.Y.Kondr. & Kärnefelt	No	No	No	No
N/A	Caloplaca yorkensis S.Y.Kondr. & Kärnefelt	No	No	No	No
N/A	Candelariella aurella (Hoffm.) Zahlbr.	No	No	No	No
N/A	Candelariella vitellina (Hoffm.) Müll.Arg.	No	No	No	No
N/A	Candelariella xanthostigmoides (Müll.Arg.) R.W.Rogers	No	No	No	No
N/A	Catillaria austrolittoralis Kantvilas & van den Boom	No	No	No	No
N/A	Chrysothrix sulphurella (Räsänen) Kantvilas & Elix	No	No	No	No
N/A	Chrysothrix xanthina (Vain.) Kalb	No	No	No	No
N/A	Cladia aggregata (Sw.) Nyl.	No	No	No	No
N/A	Cladia retipora (Labill.) Nyl.	No	No	No	No
N/A	Cladia schizopora (Nyl.) Nyl.	No	No	No	No
N/A	Cladia sullivanii (Müll.Arg.) W.Martin	No	No	No	No
N/A	Cladonia angustata Nyl.	No	No	No	No
N/A	Cladonia capitellata (Hook.f. & Taylor) C.Bab. var. squamatica A.W.Archer	No	No	No	No
N/A	Cladonia confusa R.Sant.	No	No	No	No
N/A	Cladonia humilis (With.) J.R.Laundon var. humilis	No	No	No	No
N/A	Cladonia praetermissa A.W.Archer var. modesta (Ahti & Krog) Kantvilas & A.W.Archer	No	No	No	No
N/A	Cladonia praetermissa A.W.Archer var. praetermissa	No	No	No	No
N/A	Cladonia rigida (Hook.f. & Taylor) Hampe var. rigida	No	No	No	No
N/A	Cladonia subradiata (Vain.) Sandst.	No	No	No	No
N/A	Cladonia verticillata (Hoffm.) Schaer.	No	No	No	No
N/A	Cliostomum griffithi (Sm.) Coppins	No	No	No	No
N/A	Cliostomum griffithii (Sm.) Coppins	No	No	No	No
N/A	Cliostomum latisporum Kantvilas	No	No	No	No
N/A	Cliostomum verrucosum (Müll.Arg.) Kantvilas	No	No	No	No
N/A	Coenogonium implexum Nyl.	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	Coenogonium pineti (Schrad. ex Ach.) Lücking & Lumbsch	No	No	No	No
N/A	Coenogonium sp.	No	No	No	No
N/A	Collema glaucophthalmum Nyl. var. glaucophthalmum	No	No	No	No
N/A	Collema glaucophthalmum Nyl. var. implicatum (Nyl.) Degel.	No	No	No	No
N/A	Coniocarpon cinnabarinum DC.	No	No	No	No
N/A	Cyphelium sp.	No	No	No	No
N/A	Diploicia canescens (Dicks.) A.Massal.	No	No	No	No
N/A	Enterographa divergens (Müll.Arg.) Redinger	No	No	No	No
N/A	Enterographa sp.	No	No	No	No
N/A	Flavoparmelia haysomii (C.W.Dodge) Hale	No	No	No	No
N/A	Flavoparmelia rutidota (Hook.f. & Taylor) Hale	No	No	No	No
N/A	Fuscidea lightfootii (Sm.) Coppins & P.James	No	No	No	No
N/A	Fuscopannaria decipiens (P.M.Jürg. & D.J.Galloway) P.M.Jürg.	No	No	No	No
N/A	Graphis dracaenae Vain.	No	No	No	No
N/A	Haematomma solediatum R.W.Rogers	No	No	No	No
N/A	Halegrapha mucronata (Stirt.) Lücking	No	No	No	No
N/A	Heterodermia spathulifera Moberg & Purvis	No	No	No	No
N/A	Hyperphyscia adglutinata (Flörke) H.Mayrhofer & Poelt	No	No	No	No
N/A	Hypogymnia pulverata (Nyl.) Elix	No	No	No	No
N/A	Hypotrachyna revoluta (Flörke) Hale	No	No	No	No
N/A	Arthonia nigrorufa Müll.Arg.	No	No	No	No
N/A	Lecanora flavopallida Stirt.	No	No	No	No
N/A	Lecanora subcoarcta (C.Knight) Hertel	No	No	No	No
N/A	Lecanora subcoarctata (C.Knight) Hertel	No	No	No	No
N/A	Lecanora subtecta (Stirt.) Kantvilas & LaGreca	No	No	No	No
N/A	Lecanora symmicta (Ach.) Ach.	No	No	No	No
N/A	Lecidella flavovirens Kantvilas & Elix	No	No	No	No
N/A	Leimonis erratica (Körb.) R.C.Harris & Lendemer	No	No	No	No
N/A	Lepraria ? finkii (de Lesd.) R.C.Harris	No	No	No	No
N/A	Leptogium crispatellum Nyl.	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	<i>Lichina intermedia</i> (C.Bab.) M.Schultz	No	No	No	No
N/A	<i>Maronea constans</i> (Nyl.) Hepp	No	No	No	No
N/A	<i>Megalaria grossa</i> (Pers. ex Nyl.) Hafellner	No	No	No	No
N/A	<i>Megalaria melaloma</i> (C.Knight) Kantvilas	No	No	No	No
N/A	<i>Megalaria melanotropa</i> (Nyl.) D.J.Galloway	No	No	No	No
N/A	<i>Megaloblastenia soreciata</i> Kantvilas	No	No	No	No
N/A	<i>Menegazzia caesiopruinosa</i> P.James	No	No	No	No
N/A	<i>Menegazzia subpertusa</i> P.James & D.J.Galloway	No	No	No	No
N/A	<i>Micarea byssacea</i> (Th.Fr.) Czarnota, Guzow-Krzem. & Coppins	No	No	No	No
N/A	<i>Micarea denigrata</i> (Fr.) Hedl.	No	No	No	No
N/A	<i>Micarea peliocarpa</i> (Anzi) Coppins & R.Sant.	No	No	No	No
N/A	<i>Micarea</i> sp.	No	No	No	No
N/A	<i>Micarea xanthonica</i> Coppins & Tǿnsberg	No	No	No	No
N/A	<i>Normandina pulchella</i> (Borrer) Nyl.	No	No	No	No
N/A	<i>Ochrolechia africana</i> Vain.	No	No	No	No
N/A	<i>Ochrolechia apiculata</i> Versegghy	No	No	No	No
N/A	<i>Ochrolechia gyrophorica</i> (A.W.Archer) A.W.Archer & Lumbsch	No	No	No	No
N/A	<i>Opegrapha</i> sp. 1	No	No	No	No
N/A	<i>Opegrapha</i> sp. 2	No	No	No	No
N/A	<i>Opegrapha</i> sp. 3	No	No	No	No
N/A	<i>Opegrapha</i> sp. 4	No	No	No	No
N/A	<i>Opegrapha</i> sp. 5	No	No	No	No
N/A	<i>Opegrapha</i> sp. 6	No	No	No	No
N/A	<i>Opegrapha spodopolia</i> Nyl.	No	No	No	No
N/A	<i>Pannaria elixii</i> P.M.Jǿrg. & D.J.Galloway	No	No	No	No
N/A	<i>Parapropidia leptocarpa</i> (C.Bab. & Mitt.) Rambold & Hertel	No	No	No	No
N/A	<i>Parmotrema neopustulatum</i> Kurok.	No	No	No	No
N/A	<i>Parmotrema perlatum</i> (Huds.) M.Choisy	No	No	No	No
N/A	<i>Parmotrema reticulatum</i> (Taylor) M.Choisy	No	No	No	No
N/A	<i>Pertusaria crassilabra</i> Mǿll.Arg.	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	<i>Pertusaria pertracta</i> Stirt.	No	No	No	No
N/A	<i>Pertusaria pertractata</i> Stirt.	No	No	No	No
N/A	<i>Phaeographis lindigiana</i> Müll.Arg.	No	No	No	No
N/A	<i>Phlyctis subuncinata</i> Stirt.	No	No	No	No
N/A	<i>Physcia adscendens</i> (Fr.) H.Olivier	No	No	No	No
N/A	<i>Physcia neonubila</i> Elix	No	No	No	No
N/A	<i>Physcia poncinsii</i> Hue	No	No	No	No
N/A	<i>Porina</i> ? <i>aenea</i> (Wallr.) Zahlbr.	No	No	No	No
N/A	<i>Porina corrugata</i> Müll.Arg.	No	No	No	No
N/A	<i>Porina leptalea</i> (Durieu & Mont.) A.L.Sm.	No	No	No	No
N/A	<i>Punctelia borreri</i> (Sm.) Krog	No	No	No	No
N/A	<i>Punctelia pseudocoralloidea</i> (Gyeln.) Elix & Kantvilas	No	No	No	No
N/A	<i>Ramalina caespitella</i> G.N.Stevens	No	No	No	No
N/A	<i>Ramalina celastri</i> (Spreng.) Krog & Swinscow	No	No	No	No
N/A	<i>Ramalina fissa</i> (Müll.Arg.) Vain.	No	No	No	No
N/A	<i>Ramalina inflata</i> (Hook.f. & Taylor) Hook.f. & Taylor	No	No	No	No
N/A	<i>Ramboldia blastidiata</i> Kantvilas & Elix	No	No	No	No
N/A	<i>Ramboldia laeta</i> (Stirt.) Kalb, Lumbsch & Elix	No	No	No	No
N/A	<i>Rhizocarpon geographicum</i> (L.) DC.	No	No	No	No
N/A	<i>Rhizocarpon reductum</i> Th.Fr.	No	No	No	No
N/A	<i>Rinodina blastidiata</i> Matzer & H.Mayrhofer	No	No	No	No
N/A	<i>Rinodina</i> cf. <i>obscura</i> Müll.Arg.	No	No	No	No
N/A	<i>Rinodina oleae</i> Bagl.	No	No	No	No
N/A	<i>Sarcogyne regularis</i> Körb.	No	No	No	No
N/A	<i>Sarrameana albidoplumbea</i> (Hook.f. & Taylor) Farkas	No	No	No	No
N/A	<i>Schismatomma occultum</i> (C.Knight & Mitt.) Zahlbr.	No	No	No	No
N/A	<i>Teloschistes chrysophthalmus</i> (L.) Th.Fr.	No	No	No	No
N/A	<i>Teloschistes spinosus</i> (Hook.f. & Taylor) J.S.Murray	No	No	No	No
N/A	<i>Tephromela atra</i> (Huds.) Hafellner	No	No	No	No
N/A	<i>Thelenella tasmanica</i> H.Mayrhofer & P.M.McCarthy	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
N/A	<i>Thelotrema lepadinum</i> (Ach.) Ach.	No	No	No	No
N/A	<i>Trapelia placodioides</i> Coppins & P.James	No	No	No	No
N/A	<i>Usnea</i> cf. <i>dasaea</i> Stirt.	No	No	No	No
N/A	<i>Usnea</i> cf. <i>inermis</i> Motyka	No	No	No	No
N/A	<i>Usnea</i> <i>cornuta</i> Körb.	No	No	No	No
N/A	<i>Usnea</i> <i>inermis</i> Motyka	No	No	No	No
N/A	<i>Usnea</i> <i>rubrotincta</i> Stirt.	No	No	No	No
N/A	<i>Verrucaria subdiscreta</i> P.M.McCarthy	No	No	No	No
N/A	<i>Xanthoparmelia mougeotina</i> (Nyl.) D.J.Galloway	No	No	No	No
N/A	<i>Xanthoparmelia neotinctina</i> (Elix) Elix & J.Johnst.	No	No	No	No
N/A	<i>Xanthoparmelia subprolixa</i> (Nyl. ex Kremp.) O.Blanco, A.Crespo, Elix, D.Hawksw. & Lumbsch	No	No	No	No
N/A	<i>Xanthoria ligulata</i> (Körb.) P.James	No	No	No	No
N/A	<i>Xanthoria</i> sp.	No	No	No	No
N/A	? <i>Anisomeridium</i> sp.	No	No	No	No
N/A	cf. <i>Biatorella</i> sp.	No	No	No	No