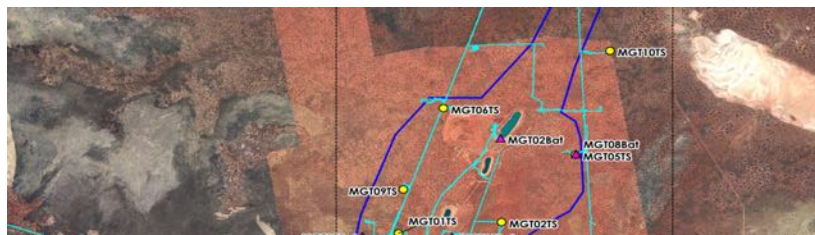




Mount Gibson Gold Project Basic and Targeted Fauna Survey



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Sciences



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Mt Gibson Basic and Targeted Fauna Survey

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1.0 Executive Summary

1.1 Background

Crimson Metals Pty Ltd (subsidiary of Capricorn Metals Ltd) plans to recommence mining at the recently acquired Mount Gibson Gold Project, located in the Midwest region of Western Australia, approximately 50 km north-east of Wubin and 70 km south-west of Paynes Find. On behalf of Crimson Metals Pty Ltd (Crimson), Tetris Environmental Pty Ltd (Tetris) commissioned Biota Environmental Sciences (Biota) to conduct a targeted vertebrate and Short-range Endemic (SRE) fauna survey, to inform mine planning and future environmental impact assessment.

1.2 Methodology

A desktop study of relevant literature, databases, and past survey reports from the locality (40 km from the centre of the study area) was undertaken to consolidate all available and relevant data to identify biological features and potential constraints.

The survey was conducted by a team of two Biota zoologists, from 8 to 11 November 2021 and 29 November to 3 December 2021, in accordance with relevant Environmental Protection Authority policy and Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* guidance. Survey methods included:

- Light Detection and Ranging (LiDAR) remote sensing and inspection of orthoimagery to preliminarily identify mounds of the Malleefowl (*Leipoa ocellata*) prior to on-ground assessment;
- targeted searches for Western Spiny-tailed Skink (*Egernia stokesii badia*) in or near fallen log piles and tree stumps, in which the skinks shelter;
- targeted searches for Common Slender Bluetongue (*Cyclodomorphus branchialis*) under leaf litter and fallen logs;
- echolocation call recordings targeting the Central Long-eared Bat (*Nyctophilus major tor*); and
- a total of 50 person hours dedicated to SRE fauna searches at 23 sites.

1.3 Fauna Habitats

Three broad fauna habitats were identified in the study area:

- mixed shrubland;
- eucalypt woodland; and
- previously cleared habitat.

Both the eucalypt woodland and mixed shrubland represent high faunal value in the study area, providing core and secondary habitats for species listed as Matters of National Environmental Significance (MNES) that occur or potentially occur within the study area. However, these habitats are not restricted to the study area and their attributes are typical of habitat types in the wider locality.

1.4 Vertebrate Fauna

Fourteen significant vertebrate species were returned from the desktop study. Six of these have been recorded from the study area, or have the potential to occur there based on their known distribution and the availability of preferred habitat (Table 1.1).

Table 1.1: Significant vertebrate species recorded or potentially occurring in the study area.

Common Name	Species	Conservation Status		Likelihood of Occurrence
		State	Commonwealth	
Western Spiny-tailed Skink	<i>Egernia stokesii badia</i>	Vulnerable	Endangered	Likely to occur
Common Slender Blue-tongue	<i>Cyclodomorphus branchialis</i>	Vulnerable	Vulnerable	May occur
Malleefowl	<i>Leipoa ocellata</i>	Vulnerable	Vulnerable	Recorded
Peregrine Falcon	<i>Falco peregrinus</i>	Specially Protected	–	Recorded
Central Long-eared Bat	<i>Nyctophilus major tor</i>	Priority 3	–	Recorded
Western Rosella	<i>Platycercus icterotis xanthogenys</i>	Priority 4	–	May occur

Of the 17 potential Malleefowl mounds that were ground-truthed, 12 were confirmed as mounds, but all were deemed inactive for over 10 years. Malleefowl tracks were recorded on two occasions within the study area and one individual Malleefowl was recorded approximately 1.5 km north of the study area, indicating that Malleefowl are active in the locality.

1.5 Potential SRE Invertebrates

Mygalomorph spiders, millipedes and land snails were recorded in the study area and represent higher-order taxonomic groups that have the potential to include SRE species. Of the 18 potential SRE invertebrate taxa collected during the survey, 10 nominal mygalomorph spider species from three taxonomic families are known solely from the study area. However, the habitat attributes of the study area and wider locality make it unlikely that these nominal species would be restricted to the study area.

Although not restricted to the study area, the Endangered (State) Lake Goorly Shield-backed Trapdoor Spider (*Idiosoma kopejtkorum*) was recorded in the study area, while the Endangered (State) Ornate Shield-backed Trapdoor Spider (*Idiosoma formosum*) and the Priority 4 Tree Stem Trapdoor Spider (*Aganippe castellum*) are considered likely to occur.

2.0 Introduction

2.1 Project Background

Crimson Metals Pty Ltd (subsidiary of Capricorn Metals Ltd) plans to recommence mining at the recently acquired Mount Gibson Gold Project, located in the Midwest region of Western Australia, approximately 50 km north-east of Wubin and 70 km south-west of Paynes Find. The Mount Gibson Gold Project has been in care and maintenance for over a decade and Crimson Metals Pty Ltd (Crimson) plans to recommence mining. To this end, disturbance areas have been nominally designated, comprising pit expansion areas, a tailings storage facility and waste rock dump areas.

On behalf of Crimson, Tetris Environmental Pty Ltd (Tetris) commissioned Biota Environmental Sciences (Biota) to conduct a desktop study and targeted fauna survey to inform mine planning and future environmental impact assessment (EIA).

2.2 Scope and Objectives

The scope of this study was to undertake a single-phase terrestrial fauna survey consistent with relevant Environmental Protection Authority (EPA) technical guidance and *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) guidance. Specific objectives included:

- preparation of a desktop study including database and literature searches, in order to consolidate all available and relevant data to identify biological features and potential constraints;
- identification and assessment of the likelihood of occurrence of significant fauna, and their preferred habitat, within the study area;
- assessment and description of any habitats deemed significant for supporting known or potential populations of significant fauna;
- documentation of Short-range Endemic (SRE) invertebrate fauna within the study area; and
- identification of any key values or Matters of National Environmental Significance (MNES).

For the purposes of this report, the 'study area' comprises the 1,830 ha main project area (including existing mine pits) and the 86 ha minor project area (see Figure 2.1).

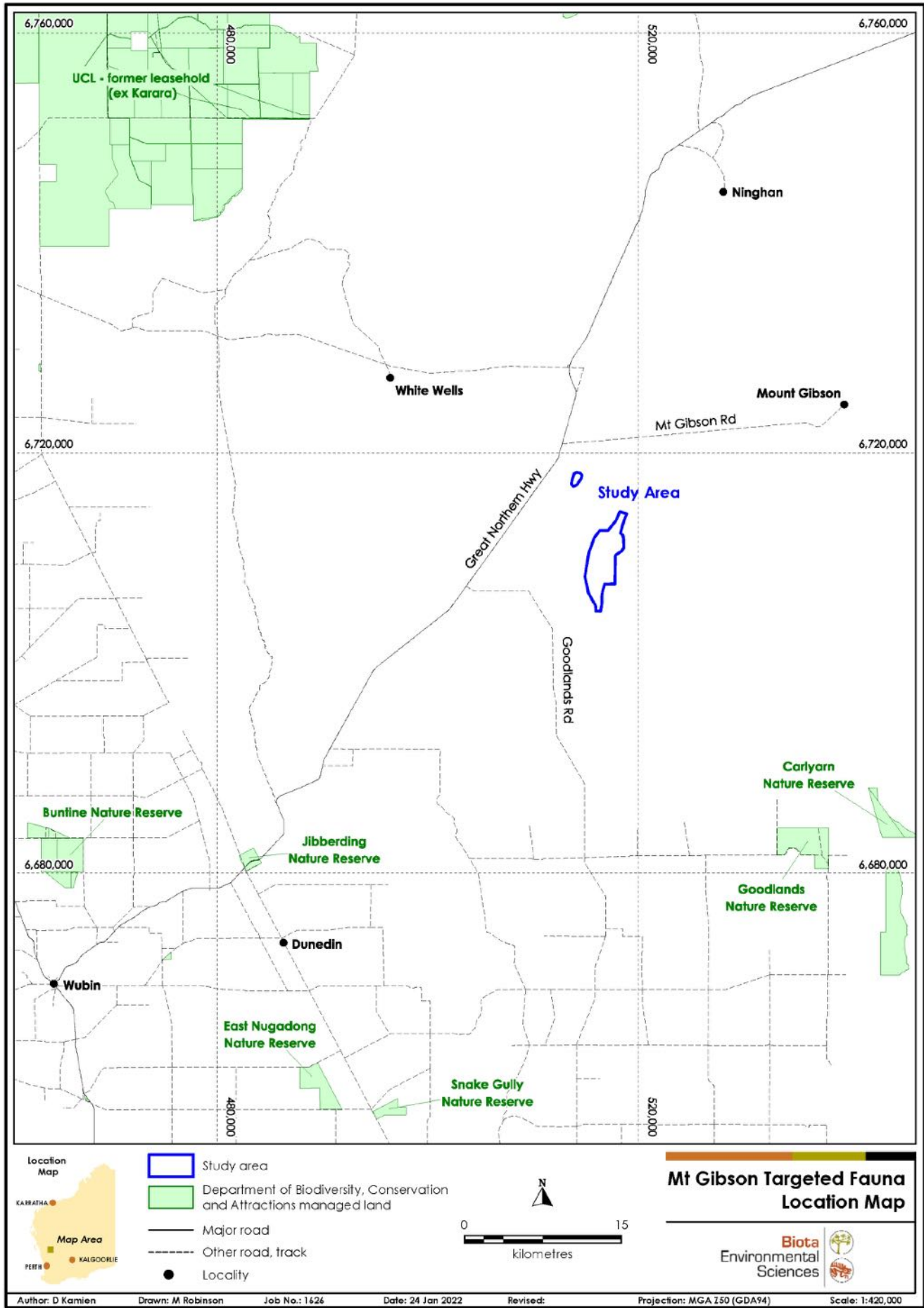


Figure 2.1: Location of the study area.

3.0 Methodology

3.1 Desktop Study

3.1.1 Literature Review

Published and unpublished reports relevant to the study area were reviewed. These included:

- a summary of the Interim Bioregionalisation for Australia (IBRA) region and subregion (DSEWPaC 2012); and
- a review of relevant biological surveys previously completed in the locality (within 40 km of the study area centre; see Section 4.2).

The following papers were also reviewed in relation to recent taxonomic revisions within the mygalomorph spiders, and recommendations for their conservation status:

- systematics of the giant spiny trapdoor spiders of the genus *Gaius* Rainbow (Mygalomorphae: Idiopidae: Aganippini): documenting an iconic lineage of the Western Australian inland arid zone (Rix et al. 2018c);
- a revision of the white-headed spiny trapdoor spiders of the genus *Euoplos* (Mygalomorphae: Idiopidae: Arbanitinae): a remarkable lineage of rare mygalomorph spiders from the south-western Australian biodiversity hotspot (Rix et al. 2019); and
- conservation systematics of the shield-backed trapdoor spiders of the *nigrum*-group (Mygalomorphae, Idiopidae, *Idiosoma*): integrative taxonomy reveals a diverse and threatened fauna from south-western Australia (Rix et al. 2018a).

The results of the literature review are summarised in Section 4.0.

3.1.2 Database Searches

The following databases were searched as part of the desktop study:

1. NatureMap (<https://naturemap.dbca.wa.gov.au>) was a joint project of the Department of Biodiversity, Conservation and Attractions (DBCA) and the Western Australian Museum (WAM), which was taken offline in December 2021. This database represented the most comprehensive source of information on the distribution of Western Australia's fauna, comprising records from the WA Threatened Fauna Database, Fauna Survey Returns Database (managed by the DBCA), the WAM Specimen Database, and the BirdLife Australia Atlas of Australian Birds. NatureMap was searched primarily to identify records of significant fauna known from the locality of the study area.
2. The Commonwealth EPBC Act Protected Matters Search Tool was searched to identify Federally listed fauna species and any other MNES that are known to or may occur in the locality.
3. Atlas of Living Australia (ALA) database.
4. WAM database, searched specifically in regard to SRE records;
5. Biota's internal database from the locality.

All database searches were centred on the coordinate 516757 mE, 6709712 mN, with search results requested from a 40 km radius.

3.1.3 Assessment of Likelihood of Occurrence in the Study Area

Results from the literature review and database searches were used to compile a list of terrestrial fauna species of significance that had previously been recorded from the study area locality. The likelihood that each taxon would occur in the study area was then assessed using the rankings and criteria provided in Table 3.1, based on consideration of:

- the results of the database and literature searches;
- the known habitat preferences of each species compared to the habitats available within the study area; and
- distributions and last known records for each species.

For each significant vertebrate fauna species, defined rankings and criteria were subsequently applied as per Table 3.1. The term "close proximity" has been defined as being within 20 km of the study area, while the broader "locality" comprises the area up to 40 km from the centre of the study area.

Table 3.1: Criteria used to assign the likelihood of occurrence of a species within the study area.

Rank	Criteria
Recorded	1. The species has been previously recorded in the study area.
Likely to occur	1. There are existing records of the species in close proximity to the study area (within 20 km); and • the species is strongly linked to a specific habitat, which is present in the study area; or • the species has more general habitat preferences, and suitable habitat is present.
May occur	1. There are existing records of the species from the locality (within 40 km), however • the species is strongly linked to a specific habitat, of which only a small amount is present in the study area; or • the species has more general habitat preferences, but only some suitable habitat is present. 2. There is suitable habitat in the study area, but the species is recorded infrequently in the locality.
Unlikely to occur	1. The species is linked to a specific habitat, which is absent from the study area; or 2. Suitable habitat is present, however there are no existing records of the species from the locality despite reasonable previous search effort in suitable habitat; or 3. There is some suitable habitat in the study area, however the species is very infrequently recorded in the locality or the only records are historic (>40 years ago).
Would not occur	1. The species is strongly linked to a specific habitat, which is absent from the study area; or 2. The species' range is very restricted and does not include the study area; or 3. The species is not considered extant in the locality.

The likelihood of occurrence for each taxon was revised following habitat ground-truthing conducted during the survey (see Section 4.3.3).

3.1.4 Habitat Assessment

Vertebrate fauna landscapes and landforms of the study area were described in the field based on Biota's fauna landscape approach (Biota 2013), which identifies functional landforms within a broader landscape. Available digital aerial imagery was also considered in combination with regional soil landscape mapping, as well as vegetation and geology, to validate and inform the extent of identified habitats. Habitat descriptions were conducted at each sampling site within the study area, and opportunistically where warranted.

Assessments of SRE habitat were undertaken in the same manner as the vertebrate fauna habitat mapping, but with consideration of the EPA (2016a) guidance, which identifies sheltered and

isolated habitats as well as microhabitats. In addition, areas in which deep soil profiles can accumulate (such as alluvial plains) were considered likely to support mygalomorph spiders.

3.1.5 Nomenclature

Consistent with the relevant EPA Technical Guidance (EPA 2020), species nomenclature for herpetofauna and mammals follows the standards of the WA Museum fauna taxonomic checklist, which is revised and released every six months or as necessary. EPA (2020) suggests using avifauna nomenclature in accordance with Australian Biological Resources Study Federal Australian Faunal Directory (DoEE 2021). This avifauna nomenclature also follows International Ornithological Congress (IOC) Bird List version 10.2 (Gill et al. 2021).

3.1.6 Threatened Fauna Statutory Framework

Native fauna species that are rare, threatened with extinction, or have high conservation value, are specially protected by law under either or both State *Biodiversity Conservation Act 2016* (the BC Act) and the Commonwealth EPBC Act. The DBCA also maintains a list of Priority species that have not been assigned statutory protection under the BC Act. Appendix 1 details the categories of conservation significance recognised under these three frameworks.

3.2 Survey Timing and Weather

3.2.1 Survey Team

The survey was conducted by a team of two Biota zoologists from 8 to 12 November 2021 and 29 November to 3 December 2021 (Table 3.2). The survey was completed under "Fauna taking (Biological Assessment) Licence" No. BA27000554 and "Authorisation to Take or Disturb Threatened Species" authorization number TFA 2021-0134, both issued to Dan Kamien (Appendix 2).

Table 3.2: Summary of personnel involved in the fauna survey.

Name	Position at Biota	Qualification	Years of Experience	Survey Role
Dan Kamien	Principal Zoologist	BSc. Hons	25	Project Manager Project coordination Reporting
Michael Greenham	Senior Zoologist	BSc.	22	Field survey (both deployments) Field team leader
Raxanne de Vos	Zoologist	BSc.	3	Field survey (1 st deployment) Reporting
Dr Sylvie Schmidt	Senior Zoologist	BSc. Hons. PhD	16	Field survey (2 nd deployment)

3.2.2 Daily Weather Observations

Weather data were obtained from the Bureau of Meteorology weather station at Paynes Find (no. 007139), located approximately 70 km north-east of the study area. Initial weather conditions were cold and wet, with precipitation of 85.4 mm resulting in survey postponement (Table 3.3). The weather at survey recommencement in late November was hot and dry, with survey temperatures ranging from a minimum of 14.8°C to a maximum of 38.5°C (Table 3.3).

Table 3.3: Weather at Paynes Find during the 2021 survey period.

	8/11	9/11	10/11	11/11	12/11	29/11	30/11	1/12	2/12	3/12	Mean/Total
Maximum temperature (°C)	33.4	15.3	22.4	26.3	29.0	38.5	32.9	34.4	34.1	35.5	30.2
Minimum temperature (°C)	17.7	11.9	11.0	9.7	11.6	17.0	14.8	15.9	17.4	19.3	14.6
Rainfall (mm)	0.0	0.0	85.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.4

Bold line indicates break in sampling caused by inclement weather.

3.2.3 Climate

Long-term climate data were also obtained from the Paynes Find weather station (Figure 3.1). Maximum and minimum temperatures in the year preceding the survey were mostly consistent with long-term averages. Conditions prior to the survey were wetter than average, with total rainfall for the four months preceding the survey being above average.

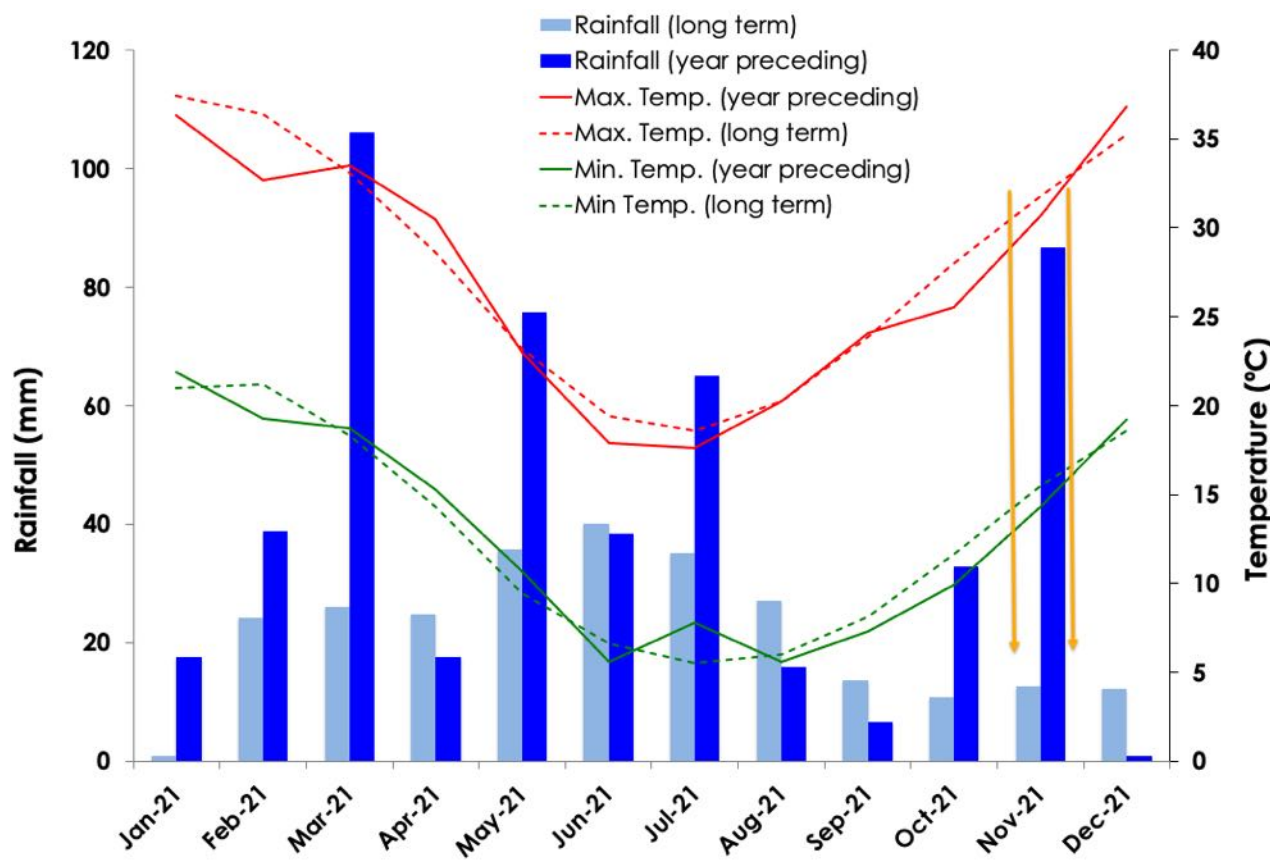


Figure 3.1: Climate and weather graph depicting long-term averages and 2021 data. (Long-term data: rainfall 1919-2021, temperatures 1975 – 2021; orange arrows indicate survey timing).

3.3 Fauna Sampling

3.3.1 Survey Design

A targeted fauna survey was conducted as per EPA guidance (2020). A detailed survey was deemed unnecessary, as quantitative data on species occurrence and species assemblages in the locality is available from previous studies conducted (Section 4.2). Additionally, the study area is small, with nominal disturbance areas smaller still.

The methodology was developed with reference to the following documents:

- Technical Guidance: Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment (EPA 2020);
- National Malleefowl Monitoring Manual (National Malleefowl Recovery Team 2020);
- Technical Guidance – Sampling of Short-range Endemic Invertebrate Fauna (EPA 2016a);
- Environmental Factor Guideline – Terrestrial Fauna (EPA 2016b);
- Survey Guidelines for Threatened Mammals (DSEWPac 2011a);
- Survey Guidelines for Threatened Reptiles (DSEWPac 2011b); and
- Survey Guidelines for Threatened Birds (DSEWPac 2010).

The vertebrate survey component consisted of a combination of remote sensing, foot traverses and targeted searches (Section 3.3.2). The invertebrate SRE survey consisted of targeted searches, which were undertaken for specific groups of invertebrates known to include SRE species (Section 3.3.3). SRE sampling sites were determined partly through assessment of aerial photography and thematic layers including soil landscapes and geology, in combination with on-ground assessment.

3.3.2 Significant Terrestrial Vertebrates

Potentially occurring Commonwealth and State listed Threatened fauna species, and DBCA listed Priority fauna species were targeted during the survey.

3.3.2.1 Remote Sensing

Due to the size of the study area, remote sensing was used as a preliminary method to identify Malleefowl mounds. This was deemed to be the most efficient means of ensuring sufficient survey coverage and adequacy to support future EIA requirements and is a method accepted by the National Malleefowl Recovery Team (2020).

Prior to the on-ground assessment, possible Malleefowl mounds were delineated using remote sensing data obtained by light aircraft on 19 September 2021 (Fugro Survey Pty Ltd). Light Detection and Ranging (LiDAR) generated a 3-dimensional point cloud, in which data were used to create a high-resolution Digital Elevation Model (Appendix 3). Additionally, high quality/high resolution orthoimagery was obtained and any features resembling Malleefowl mounds that were not identified using LiDAR were also noted. The orthoimagery was also used to inform habitat mapping and to identify any microhabitats such as log piles (Section 3.3.2.2).

3.3.2.2 Targeted Searches

Malleefowl (*Leipoa ocellata*) – Vulnerable

Based on LiDAR mapping and orthoimagery, 27 potential Malleefowl mounds were identified both inside the study area and in close proximity to the study area (Appendix 3). Of these, all 10 potential mounds located within the study area, and an additional nine mounds outside the study area were ground truthed by the survey team to confirm their presence and activity status in accordance with the National Malleefowl monitoring criteria (National Malleefowl Recovery Team 2020). Opportunistic evidence of Malleefowl activity (observation of individuals, scats and tracks) was also recorded during ground truthing searches and targeted SRE searches (Section 3.3.3). Additionally, opportunistic searches for Malleefowl sign were conducted during prior flora and vegetation surveys conducted in 2021 (Focused Vision Consulting 2022).

Western Spiny-tailed Skink (*Egernia stokesii badia*) – Vulnerable

Targeted searches for the Western Spiny-tailed Skink were conducted within the study area in eucalypt woodland (Table 3.4 and Figure 3.2). Searches were focussed on individuals and faecal piles in or near fallen logs (particularly log piles) and tree stumps in which the skinks shelter (How et al. 2003, Pearson 2012). The majority of suitable habitat was in the northern portion of the study area and therefore targeted searches were focused there.

Common Slender Bluetongue (*Cyclodomorphus branchialis*) – Vulnerable

Targeted searches for the Common Slender Bluetongue were conducted within the study area under leaf litter and fallen logs (Table 3.4; Cogger 2014).

Table 3.4: Western Spiny-tailed Skink and Common Slender Bluetongue sampling locations and effort.

Site	Easting (mE)	Northing (mN)	Habitat	Search Date	Search Effort (mins)
MGT01TS	515924	6710295	Eucalypt woodland	10/11/21	120
MGT02TS	517459	6710490	Eucalypt woodland	1/12/21	280
MGT05TS	518557	6711656	Eucalypt woodland	1/12/21	194
MGT06TS	516595	6712459	Eucalypt woodland	1/12/21	114
MGT07TS	514107	6717291	Eucalypt woodland	2/12/21	144
MGT09TS	515997	6711056	Eucalypt woodland	2/12/21	34
MGT10TS	519067	6713452	Eucalypt woodland	3/12/21	52
MGT15TS	515948	6707711	Eucalypt woodland	2/12/21	114
				Total	1,052

Peregrine Falcon (*Falco peregrinus*) – Specially Protected

While conducting targeted searches, opportunistic bird observations were conducted to determine the occurrence of Peregrine Falcon in the study area.

Central Long-eared Bat (*Nyctophilus major tor*) – Priority 3

Sampling was conducted within the study area to target the Central Long-eared Bat (Figure 3.2). Echolocation calls were recorded using Song Meter Mini Bat recorders, which detect and record ultrasonic echolocation calls emitted during bat flight. The selectable filters and triggers, and audio settings used followed the manufacturer's recommendations for bat detection (Wildlife Acoustics 2020).

Sampling was undertaken at 15 locations, with Song Meters deployed for a total of 27 sample nights (Table 3.5). The Song Meters were placed in locations considered likely to provide records of this species, specifically areas of fresh water, or in potential flyways.

Table 3.5: Bat sampling locations and effort.

Site	Easting (mE)	Northing (mN)	Landform	Start Date	End Date	Nights Active
MGT01Bat	514311	6717659	Depression (water)	8/11/21	11/11/21	2
MGT02Bat	517440	6711941	Mine pit (water)	8/11/21	11/11/21	2
MGT03Bat	515479	6708089	Mine pit (water)	8/11/21	11/11/21	2
MGT04Bat	515972	6707710	Plain	10/11/21	12/11/21	2
MGT05Bat	515661	6709715	Depression (water)	10/11/21	12/11/21	2
MGT06Bat	515171	6708056	Plain (flood plain)	11/11/21	12/11/21	1
MGT07Bat	515036	6709273	Mine pit (water)	11/11/21	12/11/21	1
MGT08Bat	518561	6711663	Plain	1/12/21	3/12/21	2
MGT09Bat	514144	6717503	Plain	11/11/21	12/11/21	1
MGT10Bat	516235	6705383	Mine pit (water)	29/11/21	1/12/21	2
MGT11Bat	515987	6706344	Mine pit (water)	29/11/21	1/12/21	2
MGT12Bat	516147	6707066	Plain	29/11/21	1/12/21	2
MGT13Bat	515393	6710245	Plain	1/12/21	3/12/21	2
MGT14Bat	516178	6709480	Mine pit (water)	1/12/21	3/12/21	2
MGT15Bat	516717	6710242	Mine pit (water)	29/11/21	1/12/21	2
Total						27

Bat echolocation call analysis was conducted by Dan Kamien of Biota using Kaleidoscope Pro software (version 5.1.1), and following methods recommended by the Australasian Bat Society (2006) in conjunction with available reference data (Bullen and McKenzie 2002, Churchill 2008). Only sequences containing good quality search phase calls were considered for identification.

3.3.2.3 Significant Species Opportunistic Records

Other significant species representing vagrant or uncommon fauna were noted if sighted opportunistically during the survey.

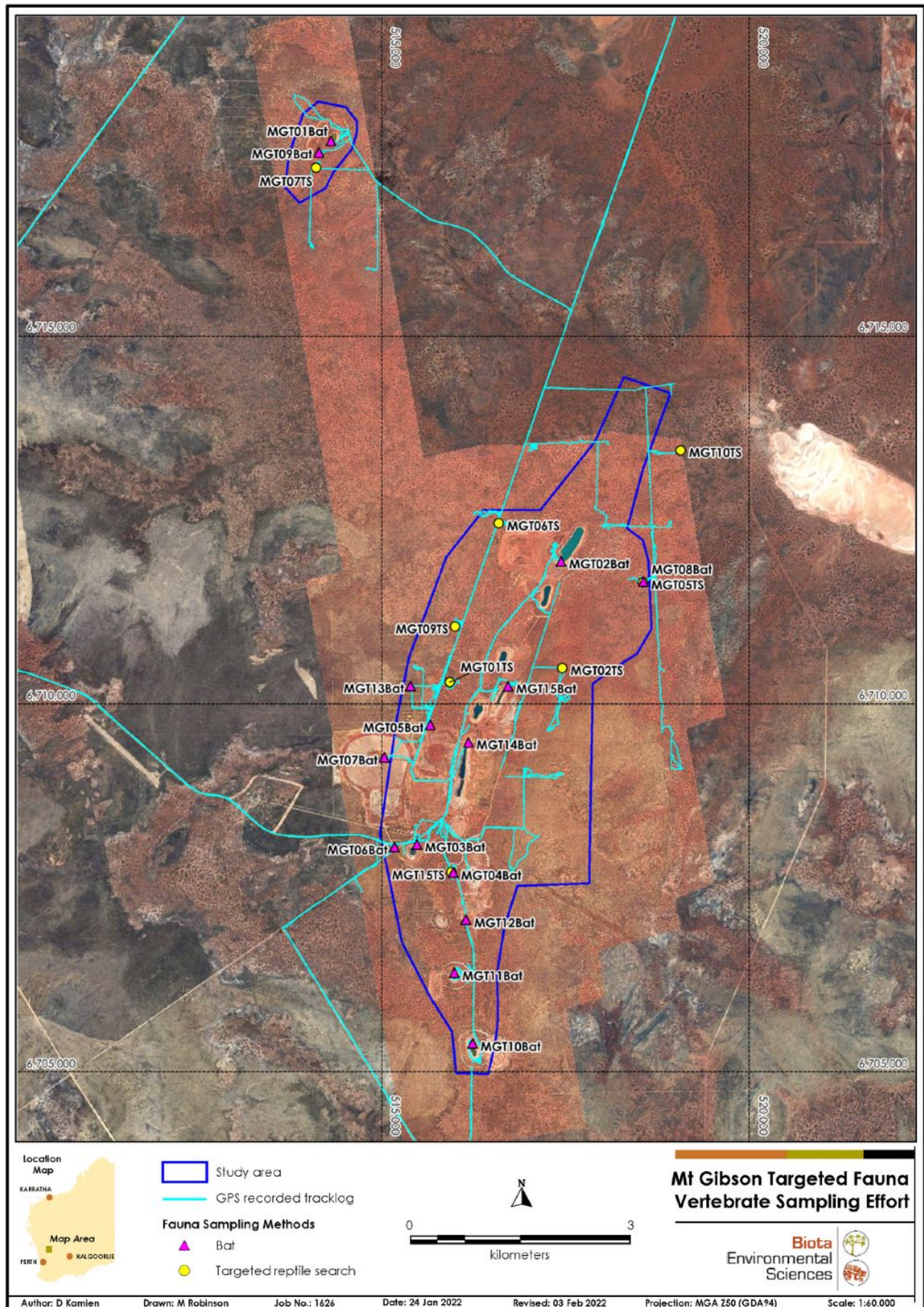


Figure 3.2: Targeted vertebrate fauna sampling locations and track logs.

3.3.3 Short-range Endemic Invertebrates

SRE invertebrates are taxonomic groups of invertebrates that exhibit naturally small distributions, (less than 10,000 km²; Harvey 2002). Given the importance of short-range endemism to the conservation of biodiversity (EPA 2016a), the assessment of such invertebrate taxa is a potentially important component of EIA.

Certain groups of invertebrates are pre-disposed to short-range endemism through particular life history traits such as poor dispersal capabilities, confinement to disjunct habitats, slow reproduction and low fecundity (Harvey 2002, Ponder and Colgan 2002). The taxonomic groups targeted for the current survey comprised:

- mygalomorph spiders (Mygalomorphae);
- millipedes (Diplopoda); and
- terrestrial snails (Pulmonata).

In total, 50 person hours were dedicated to SRE fauna searches (Table 3.6). Search sites were located where SRE species most frequently occur (e.g. habitat with suitable soil profile and drainage depressions). A total of 23 SRE sites were sampled (Table 3.6 and Figure 3.3).

Mygalomorph spiders were targeted by visually locating burrows, and then excavating them. Consideration was given to determine the presence of the following species:

- Lake Goorly Shield-backed Trapdoor Spider (*Idiosoma kopejtkorum*) – Endangered (State);
- Ornate Shield-backed Trapdoor Spider (*Idiosoma formosum*) – Endangered (State); and
- Tree Stem Trapdoor Spider (*Aganippe castellum*) – Priority 4.

Where possible, these species were identified based on characteristic burrow entrance morphology (Avon Catchment Council 2007, Rix et al. 2018a) with the aim of avoiding excavation. Female *Idiosoma* are unique in possessing enlarged and sclerotized abdominal sigilla, an adaptation facilitating phragmosis (Rix et al. 2018a). An endoscopic camera was used to attempt identification of some *Idiosoma* based on these unique characteristics, while spiders remained in situ within their burrow, however this was unsuccessful.

Collected individuals were preserved in 70% ethanol for morphological description. Two legs were removed and placed in 100% ethanol for potential future molecular analysis.

Millipedes were searched for under leaf litter, logs and moist soil near water. Aestivating land snails were targeted by digging underneath shrubs and in drainage gullies.

Table 3.6: SRE site locations and search effort.

Site	Easting (mE)	Northing (mN)	Habitat	Effort (minutes)
MGT01SRE_RD	515889	6710292	Eucalypt woodland	364
MGT01SRE_SS	516316	6705160	Mixed shrubland	56
MGT01SRE_SS	516334	6705171	Eucalypt woodland	300
MGT02SRE_MG	516591	6712594	Eucalypt woodland	152
MGT02SRE_SS	516131	6706324	Eucalypt woodland	45
MGT02SRE_SS	516131	6706327	Eucalypt woodland	86
MGT03SRE_MG	516760	6707782	Mixed shrubland	102
MGT03SRE_SS	516143	6707030	Mixed shrubland	25
MGT04SRE_SS	516789	6710272	Eucalypt woodland	76
MGT05SRE_RD	515622	6709750	Eucalypt woodland	138
MGT05SRE_SS	516992	6709120	Mixed shrubland	148
MGT06SRE_MG	518558	6711658	Eucalypt woodland	206
MGT06SRE_SS	515931	6709051	Eucalypt woodland	24
MGT07SRE_MG	514105	6717293	Mixed shrubland	330

Site	Easting (mE)	Northing (mN)	Habitat	Effort (minutes)
MGT07SRE_SS	514066	6716201	Eucalypt woodland	10
MGT08SRE_MG	516021	6711116	Eucalypt woodland	126
MGT09SRE_MG	515506	6710582	Mixed shrubland	154
MGT10SRE_MG	517087	6713544	Eucalypt woodland	132
MGT11SRE_MG	517423	6710079	Eucalypt woodland	92
MGT12SRE_MG	515935	6707670	Eucalypt woodland	110
MGT13SRE_MG	519060	6713459	Eucalypt woodland	44
MGT14SRE_MG	517430	6709010	Mixed shrubland	96
MGT15SRE_MG	516889	6712466	Eucalypt woodland	178
			Total	2,994

3.3.3.1 Genetic Analysis

Mygalomorph spiders are commonly recorded throughout Western Australia, however very few have been resolved to the species level (source: Biota internal database). Additionally, it is often not possible to identify mygalomorph spiders through morphological characters. This report therefore makes use of DNA sequencing in combination with previous genetic studies to accurately determine if recorded putative species are known from beyond the study area.

Helix Molecular Solutions (Helix) carried out the relevant molecular analysis comparing sequences of specimens collected during the survey to those available in Helix's database and the publicly available GenBank database collection. From this, taxa were assigned to putative species based on Bayesian analysis of COX1 haplotypes. In regards to mygalomorph spiders, previous assessments have been based on combining samples into species if they show less than 9.5% sequence divergence (Biota 2012), accepted by arachnologist Dr Mark Harvey (WAM) as a suitably conservative threshold for identifying likely species.

3.3.3.2 Determining SRE Status

The SRE status of species is based on the extent of their geographic distribution. Table 3.7 details the criteria used to determine the SRE status of putative species for the purposes of this report.

Table 3.7: Criteria used to determine SRE status.

SRE Status	Defining Criteria
Known SRE	- Species, morphotype or genetic type has a documented distribution of <10,000 km². - Species, morphotype or genetic type is well collected with numerous specimens typed and habitat preference understood.
Potential SRE	- Species, morphotype or genetic type has a documented distribution of <10,000 km² but is poorly sampled. - Specimen may not be formally described or assigned to a morphotype / genetic type. - Short-range endemism may be common in genus or family. - May have been collected from restricted, refugia or isolated habitats.
Unlikely to be an SRE	- Species, morphotype or genetic type has a documented distribution of <10,000 km² but is poorly sampled. - Specimen may not be formally described or assigned to a morphotype / genetic type. - Short-range endemism is not common in genus or family. - Taxon was not collected from restricted, refugia or isolated habitats. - Few other individuals of the taxon collected, but records are separated by long distances (>100 km).
Not an SRE	- Specimen formally described or assigned to a morphotype / genetic type. - Species, morphotype or genetic type has a documented distribution of >10,000 km².
Undetermined	Taxa where there is insufficient taxonomic framework available to provide any informed comment on the species-level distribution of the fauna or, therefore, the risk of small-scale spatial restrictions.

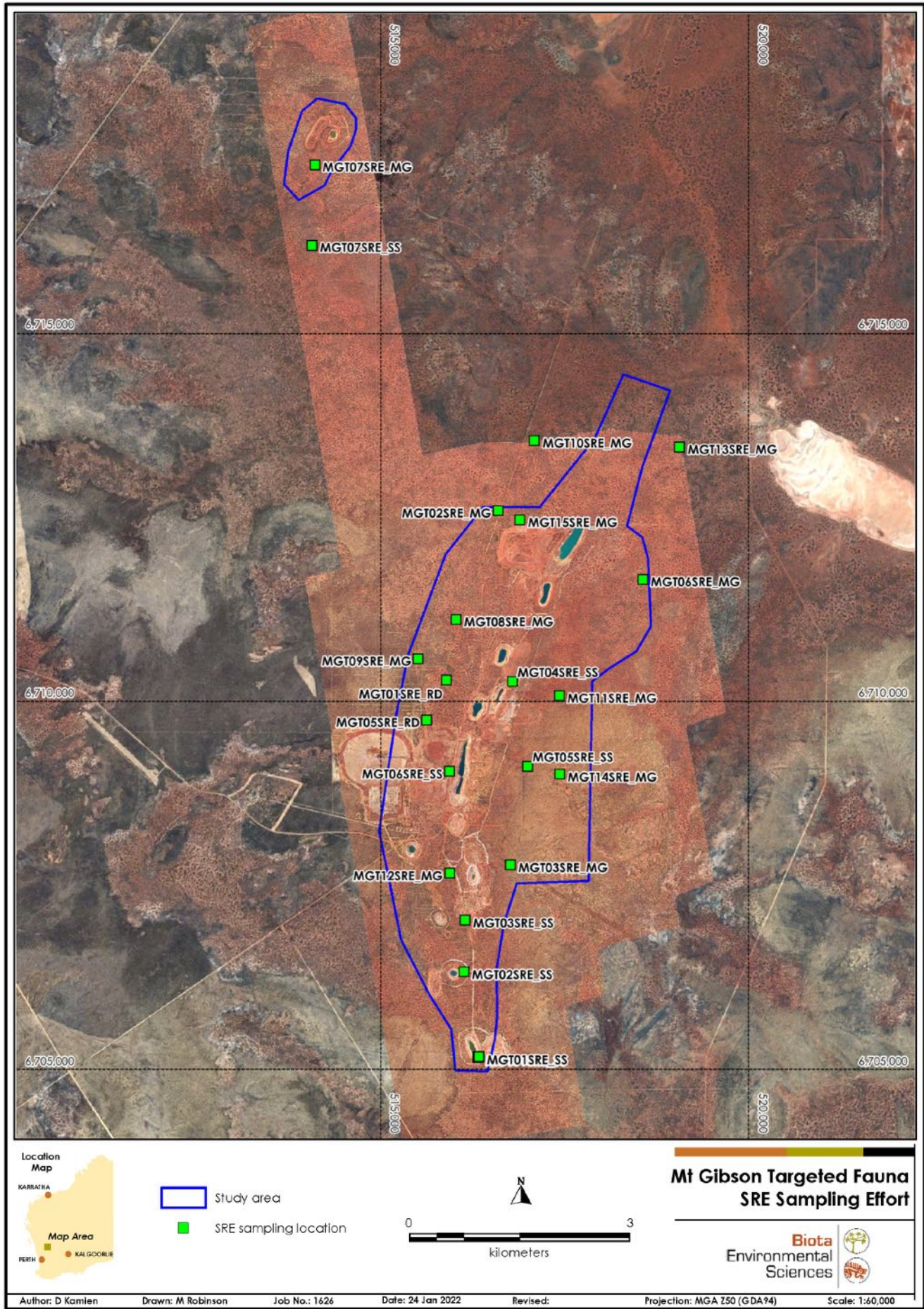


Figure 3.3: SRE sampling locations.

3.4 Study Limitations

The results presented within this report should be interpreted with consideration to the limitations outlined below.

- Not every section of the study area was ground-truthed or sampled, as parts of the study area were inaccessible by vehicle. Fauna sampling was, however, completed in habitats considered to represent the range of landforms and soil landscapes present in the study area.
- Significant rainfall occurred on the third day of the survey, resulting in limited access and sub-optimal conditions. As such, the survey was postponed for three weeks, recommencing 29 November, 2021 following improvement in conditions.
- Many SRE taxa are difficult to sample adequately. For example, mygalomorph spiders are time-consuming to locate, and morphological identification requires adult male specimens, which are often in low abundance and only emerge from their burrow during selective, specific conditions such as following rain or during humid nights.

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4.0 Desktop Study

4.1 Regional Context of the Study Area

4.1.1 IBRA Bioregion and Subregion

The study area lies within the Avon Wheatbelt bioregion, one of 89 bioregions defined by the Interim Biogeographic Regionalisation for Australia (IBRA) (DSEWPaC 2012). The Avon Wheatbelt bioregion is divided into two biological subregions. The study area lies within the AW1 Ancient Drainage subregion, which is described by Beecham (2003) as follows:

“Gently undulating landscape of low relief. Proteaceous scrub- heaths, rich in endemics, on residual lateritic uplands and derived sandplains; mixed eucalypt, *Allocasuarina huegeliana* and Jam-York Gum woodlands on Quaternary alluvials and eluvials. Within this bioregion, AW1 is an ancient penplain with low relief, gently undulating landscape. There is no connected drainage; salt lake chains occur as remnants of ancient drainage systems that now only function in very wet years. Lateritic uplands are dominated by yellow sandplain. Climate is Semi-arid (Dry) Warm Mediterranean. Total area is 6,566,022 ha.”

4.1.2 Soil Landscapes

A total of 912 soil landscapes have been identified and mapped in the Avon Wheatbelt bioregion (DPIRD 2018). The study area intersects four soil landscapes (Euchre, Joseph, Moriarty and Pindar) as shown in Table 4.1 and Figure 4.1. These soil landscapes are well-represented in the vicinity of the study area; Euchre, Moriarty and Pindar are widespread but distributed in isolated patches, while the Joseph soil landscape occurs in a contiguous distribution. The study area contains only a small proportion of the soil landscapes mapped within the bioregion (Table 4.1).

Table 4.1: Soil landscapes intersecting the study area.

Soil Landscape	Description	Total Area of Soil Landscape in the Avon Wheatbelt Bioregion (ha)	Area of Soil Landscape in the Study Area (ha)	Percentage of Total Soil Landscape that Occurs in the Study Area (%)
Pindar (258Pd)	Loamy plains surrounded by sandplain supporting York Gum woodlands and Acacia shrublands.	29,432	937	3.18
Joseph (258Jo)	Undulating yellow sandplain supporting dense mixed shrublands with patchy mallees.	143,797	460	0.32
Euchre (258Eu)	Low granite breakaways with alluvial plains and sandy tracts supporting eucalypt woodlands and Acacia shrublands.	24,613	433	1.76
Moriarty (270Mo)	Low greenstone rises and stony plains supporting chenopod shrublands with patchy eucalypt overstoreys.	6,141	86	1.40

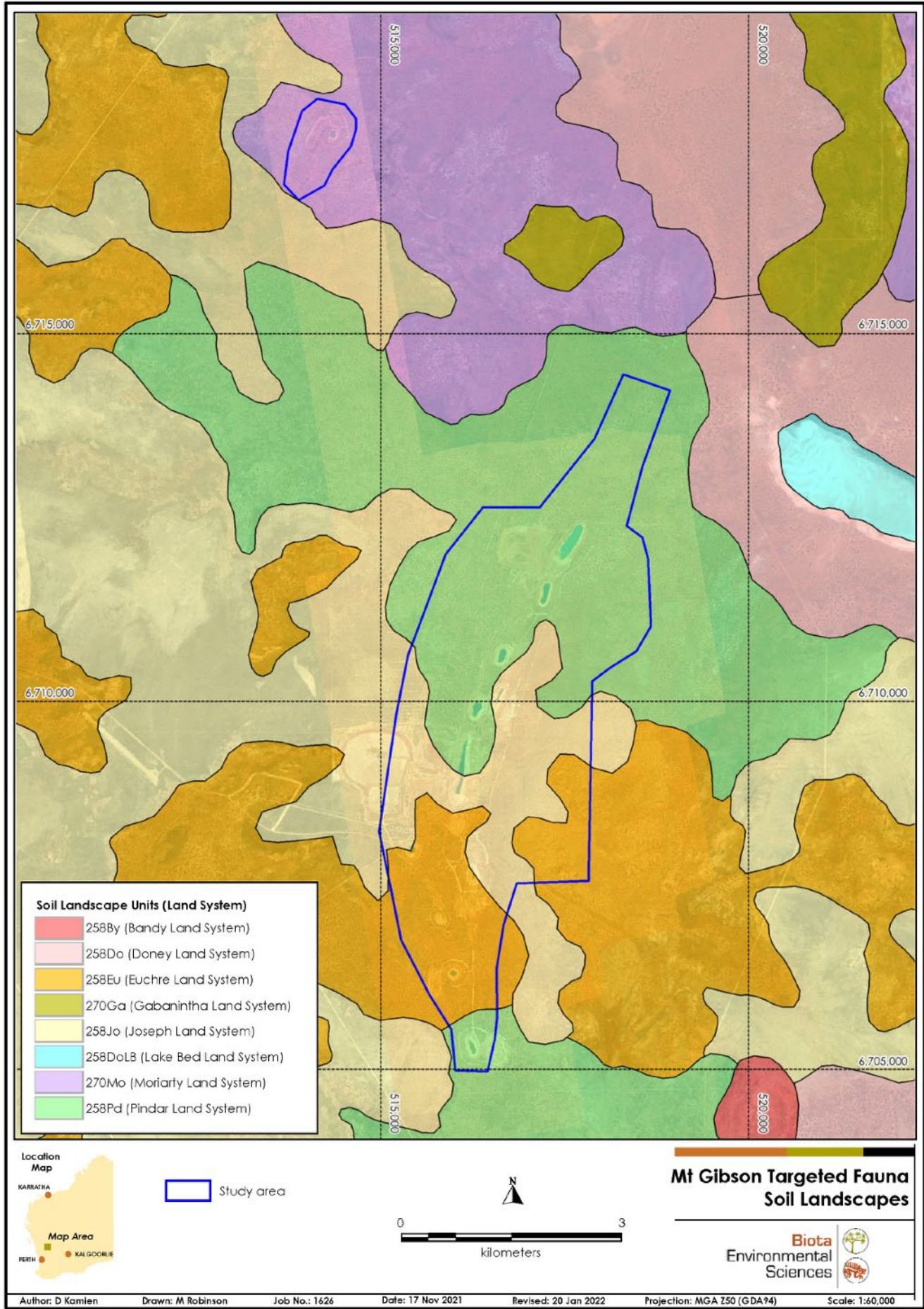


Figure 4.1: Soil landscapes of the study area.

4.1.3 Surface Geology

The study area encompasses seven geological units mapped at a scale of 1:100,000 (Stewart et al. 2008) (Table 4.2 and Figure 4.2). Colluvium (Qrc) is the dominant geological unit within the study area.

Table 4.2: Geological units occurring in the study area.

Age	Unit Code	Geological Description	Area (ha)
Quaternary	Qa	Channel and flood plain alluvium; gravel, sand, silt, clay, locally calcreted.	171
	Qrc	Colluvium, sheetwash, talus; gravel piedmonts and aprons over and around bedrock; clay-silt-sand with sheet and nodular kankar; alluvial and aeolian sand-silt-gravel in depressions and broad valleys in Canning Basin; local calcrete, reworked laterite.	980
Cenozoic	Czs	Sand or gravel plains; quartz sand sheets commonly with ferruginous pisoliths or pebbles, minor clay; local calcrete, laterite, silcrete, silt, clay, alluvium, colluvium, aeolian sand.	49
Archean	Ady	Mafic intrusive rocks, medium to coarse-grained; layered mafic to ultramafic intrusions; metadolerite; Medium to coarse-grained metagabbro, dolerite and granophyre, local ultramafic bases.	71
	Ag	Undifferentiated felsic intrusive rocks, including monzogranite, granodiorite, granite, tonalite, quartz monzonite, syenogranite, diorite, monzodiorite, pegmatite. Locally metamorphosed, foliated, gneissic. Local abundant mafic and ultramafic inclusions.	246
	Aty	Amphibolite, mafic schist, mafic rock intercalated with granite, para-amphibolite; metabasalt, metagabbro, metapyroxenite and metadolerite; Youanmi Terrane.	184
	Azy	Quartz-muscovite schist in contact zones next to granites.	215

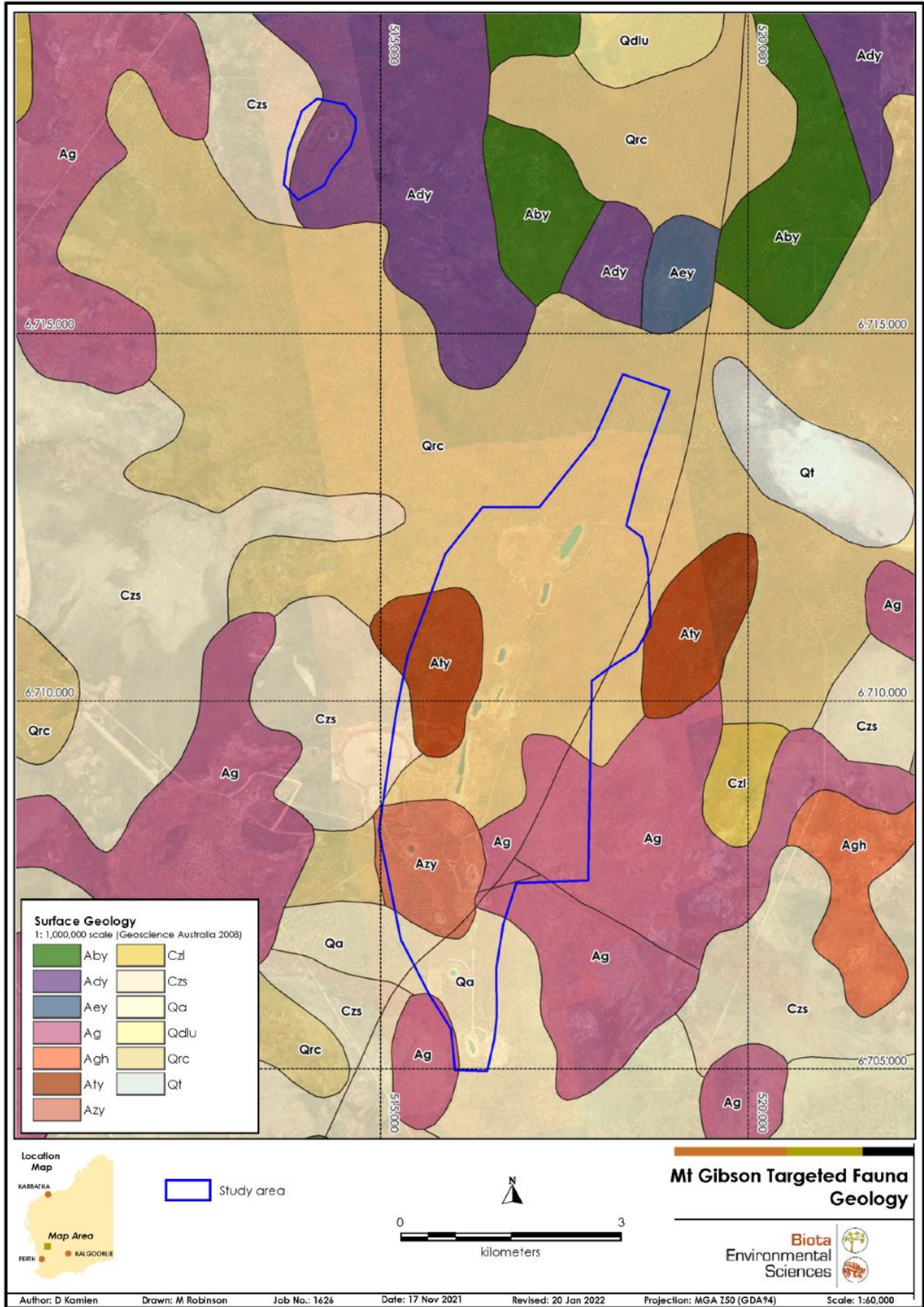


Figure 4.2: Geological units of the study area.

4.1.4 Vegetation

4.1.4.1 Beard's Vegetation Mapping

Beard (1981) mapped the vegetation of the region at a scale of 1:1,000,000. The study area is located within the Avon Botanical District of the South-West Botanical Province as defined by Beard.

The study area intersects two vegetation units mapped by Beard:

- Jibberding 141: Medium woodland; York Gum, Salmon Gum and Gimlet; and
- Jibberding 437: Shrublands; Mixed *Acacia* thicket on sandplain.

These vegetation units are well represented beyond the study area and adjacent to it, being subjected to only minor clearing.

4.1.4.2 Vegetation of the Study Area

Vegetation mapping of the study area was completed by Focused Vision Consulting (2022). Four broad vegetation units, rehabilitated and cleared areas were identified from the study area:

- Low Mallee, *Acacia* and *Allocasuarina* woodland;
- Low open *Callitris* Woodland with scattered mallee *Eucalyptus* spp.;
- Salmon Gum and Gimlet Woodland;
- York Gum Woodland;
- Rehabilitation/regrowth; and
- Cleared.

The study area intersects areas of 'Eucalypt Woodlands of the Western Australian Wheatbelt', which are federally listed as a Critically Endangered Threatened Ecological Community (TEC), and listed as a Priority Ecological Community (PEC) in WA.

4.2 Previous Fauna Surveys

Fauna surveys, targeting both vertebrates and SRE invertebrates, that were conducted since 2004 in the locality (within 40 km of the center of the study area) were reviewed for the desktop study, as summarised in Table 4.3).

Table 4.3: Previous relevant surveys conducted within 40 km of the study area centre.

Report/Survey	Survey Timing	Survey Description	Significant Findings	Limitations
Terrestrial Fauna Surveys				
Fauna Assessment Mount Gibson (ATA 2005a)	March 2004	Single-phase Level 2	112 vertebrate species recorded. One significant species: Vulnerable Malleefowl (<i>Leipoa ocellata</i>)	- Single survey only, no seasonal or temporal variations were catered for. - SRE results were not provided due to processing delays. - No frogs encountered due to dry weather. - Malleefowl mound searches were not conducted over entire study area. - Not all trees were searched for <i>Egernia stokesii badia</i>.
Mount Gibson Terrestrial Vertebrate Fauna Monitoring (Terrestrial Ecosystems 2012)	December 2011	Single-phase Level 2	51 vertebrate species recorded. One significant species: Vulnerable Malleefowl	- Trapping effort restricted to funnel and box traps. - Lower average temperatures in December potentially resulting in fewer reptile species caught.
Vertebrate fauna survey of the Mummaloo Project (Phoenix 2012)	June 2012	Single-phase Level 2	80 vertebrate species recorded. One significant species: Vulnerable Malleefowl	- Lower than average temperatures likely to have reduced activity for many species, particularly herpetofauna. - Elliott traps were disturbed by ravens at all four sites due to potential food source within traps, causing the traps to close.
Extension Hill Magnetite Significant Fauna Monitoring (Ecologia 2013)	November 2013	Single-phase targeted	Three significant species: - Vulnerable Western Spiny-tailed Skink (<i>Egernia stokesii badia</i>) - Specially Protected Peregrine Falcon (<i>Falco peregrinus</i>) - Vulnerable Malleefowl	No limitations reported.
Mummaloo Project Targeted Fauna Assessment (Bamford Consulting 2013)	October 2012	Single-phase targeted	88 species vertebrate species recorded. One significant species: Vulnerable Malleefowl	No limitations reported.
Mount Gibson Terrestrial Vertebrate Fauna Monitoring (Terrestrial Ecosystems 2014)	October 2013	Single-phase Level 2	58 species vertebrate species recorded. Four significant species: - Vulnerable Western Spiny-tailed Skink - Specially Protected Peregrine Falcon - Vulnerable Malleefowl - Specially Protected Peregrine Falcon	Trapping effort along ridges restricted to funnel and aluminium box traps.

Malleefowl Targeted Surveys				
Malleefowl Assessment Mount Gibson (ATA 2005b)	March 2004 September 2004 January 2005	Three-phase targeted Malleefowl survey	4 live Malleefowl, 113 mounds (15 active).	- Did not provide for temporal variation in breeding patterns, as several years of surveys would be necessary. - Difficulty in seeing all mounds due to dense vegetation and camouflaged mounds. - Southern portion of lease not searched due to distance from proposals and time constraints.
Mount Gibson Ranges Targeted Malleefowl Survey (Biologic 2014)	December 2013 June 2014	Two-phase targeted	2 active Malleefowl mounds (18 inactive); scat and tracks present.	Two areas of lower transect densities may have increased likelihood of missed mounds.
Annual Malleefowl Mound Monitoring (Mount Gibson Mining 2012)	November 2011	Annual targeted Malleefowl monitoring	14 active Malleefowl mounds.	No fauna identified, collected, or recorded.
Targeted Malleefowl Survey – Mummaloo (EnviroWorks 2012)	August 2012	Single-phase targeted Malleefowl survey	2 Malleefowl (camera traps), 2 active mounds.	No limitations reported.
Short-Range Endemic Invertebrate Surveys				
Mummaloo Project: Short Range Endemic Invertebrates (Bennelongia 2012)	May 2012 July 2012	Pilot study, Level 2 and targeted	54 species recorded, including: 14 potential SRE species. 159 <i>Idiosoma nigrum</i> (taxonomy since split into <i>I. kopejtkaorum</i> and <i>I. formosum</i>).	No limitations reported.
Mt Gibson Ranges Targeted <i>Idiosoma nigrum</i> Survey	December 2013 June 2014	Two-phase targeted	86 active <i>I. nigrum</i> burrows (taxonomy since split into <i>I. kopejtkaorum</i> and <i>I. formosum</i>). 2 active <i>Aganippe castellum</i> (P4) burrows	- Likely that not all <i>I. nigrum</i> burrows recorded due to cryptic nature. - Differences in vegetation mapping causing difficulty in comparing potential distribution in relation to vegetation units.
A survey of ground-dwelling invertebrates (Guthrie et al. 2011)	June 2006 July 2007 September 2006 October 2007	Four-phase Level 2	200 taxa from 14 orders.	No limitations reported.
The mygalomorph spiders from the Mt Gibson region (Main 2005)	April – June 2005	Single-phase targeted	6 families of mygalomorph spiders.	No limitations reported.
The Invertebrate Fauna of the Mt Gibson region (Slack-Smith 2006)	April – June 2005	Identification of specimens from targeted survey	4 species of land snails, including: <i>Bothriembryon</i> sp., which is potentially vulnerable to disturbance	No limitations reported.

4.3 Significant Fauna Species

4.3.1 Vertebrate Fauna

Based on the results of the desktop assessment, four State and ten Commonwealth listed significant fauna species were identified as potentially occurring in the locality of the study area, as listed below¹:

Mammals

- Central Long-eared Bat (*Nyctophilus major tor*) – Priority 3.

Birds

- Curlew Sandpiper (*Calidris ferruginea*) – Critically Endangered/Migratory;
- Night Parrot (*Pezoporus occidentalis*) – Critically Endangered;
- Australian Painted-snipe (*Rostratula australis*) – Endangered;
- Malleefowl (*Leipoa ocellata*) – Vulnerable;
- Grey Falcon (*Falco hypoleucos*) – Vulnerable;
- Peregrine Falcon (*Falco peregrinus*) – Specially Protected;
- Common Sandpiper (*Actitis hypoleucos*) – Migratory;
- Gull-billed Tern (*Gelochelidon nilotica*) – Migratory;
- Red-necked Stint (*Calidris ruficollis*) – Migratory;
- Hooded Dotterel (*Thinornis cucullatus*) – Priority 4; and
- Western Rosella (*Platycercus icterotis xanthogenys*) – Priority 4.

Reptiles

- Common Slender Bluetongue (*Cyclodomorphus branchialis*) – Vulnerable; and
- Western Spiny-tailed Skink (*Egernia stokesii badia*) – Vulnerable.

Database and literature search results for the above species are presented in Appendix 4. The likelihood of occurrence of these species within the study area is assessed in Appendix 5.

4.3.2 SRE Invertebrate Fauna

Database returns indicate three formally listed significant invertebrate species were identified as potentially occurring in the locality of the study area:

- Lake Goorly Shield-backed Trapdoor Spider, *Idiosoma kopejtkaorum* (formerly known as *Idiosoma nigrum*) – Endangered (State);
- Ornate Shield-backed Trapdoor Spider, *Idiosoma formosum* (formerly known as *Idiosoma nigrum*) – Endangered (State)²; and
- Tree-stem Trapdoor Spider, *Aganippe castellum* – Priority 4.

¹ Significant species that once occurred in the locality but are now considered locality extinct (outside of fenced conservation reserves) are omitted from this list.

² *Idiosoma kopejtkaorum* and *I. formosum* are not currently specified in the Commonwealth EPBC Act threatened fauna list. However, these species have been re-diagnosed from *I. nigrum* (Rix et al. 2018) which is listed as Vulnerable under the Commonwealth listing. It is therefore likely that *I. kopejtkaorum* and *I. formosum* will also be considered threatened under the EPBC Act on assessment by the Threatened Species Scientific Committee.

The consolidated data from the database searches yielded a total of 67 species-level taxa recorded from the locality, comprising:

- 47 nominal Mygalomorph spider species from seven families;
- one nominal harvestman species;
- six nominal millipede species from two families; and
- 13 nominal snail species from six families.

Of the 67 invertebrate taxa belonging to relevant groups that were retrieved from the database searches, two are known to be SRE species, and a further 46 represent potential SREs (Table 4.4).

4.3.3 Likelihood of Significant Fauna Occurrence

Appendix 5 summarises the likelihood of occurrence of the significant species that have potential to occur in the study area.

Prior to undertaking the field survey, six of the 17 species were considered 'likely to occur' and three species 'may occur' (Appendix 5). Six species were considered unlikely to occur, and two species would not occur in the study area (Appendix 5).

Table 4.4: Potential SRE taxa returned from database searches.

Family	Taxon	Distribution	Data Deficient	SRE Status	Source
Mygalomorph Spiders					
Actinopodidae	<i>Missulena</i> `MYG043`	undetermined	Yes	Potential SRE	WAM
	<i>Missulena</i> `MYG045`	undetermined	Yes	Potential SRE	WAM
	<i>Missulena</i> `MYG046`	undetermined	Yes	Potential SRE	WAM
	<i>Missulena</i> `MYG047`	undetermined	Yes	Potential SRE	WAM
	<i>Missulena</i> `sp. B05`	undetermined	Yes	Potential SRE	WAM
	<i>Missulena occatoria</i>	>10,000 km ²	No	Not an SRE	NatureMap
	<i>Missulena rutaspina</i>	>10,000 km ²	No	Not an SRE	NatureMap
Anamidae	<i>Aname</i> `Mt Gibson 1`	undetermined	Yes	Potential SRE	WAM
	<i>Aname</i> `MYG212`	undetermined	Yes	Potential SRE	WAM
	<i>Aname</i> `MYG332`	undetermined	Yes	Potential SRE	WAM
	<i>Aname</i> `MYG363`	undetermined	Yes	Potential SRE	WAM
	<i>Aname</i> `MYG692`	undetermined	Yes	Potential SRE	WAM
	<i>Kwonkan</i> `Mt Gibson sp. 1`	undetermined	Yes	Potential SRE	WAM
	<i>Kwonkan</i> `MYG058`	undetermined	Yes	Potential SRE	WAM
	<i>Proshermacha</i> `MYG505`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl luculentus</i>	>10,000 km ²	No	Not an SRE	NatureMap
	<i>Teyl</i> `MYG022`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl</i> `MYG023`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl</i> `MYG024`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl</i> `MYG025`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl</i> `MYG026`	undetermined	Yes	Potential SRE	WAM
	<i>Teyl</i> `MYG481`	undetermined	Yes	Potential SRE	WAM
Barychelidae	<i>Idiommata</i> `yelbeni`	undetermined	Yes	Potential SRE	WAM
	<i>Synothele</i> `impactspins`	undetermined	Yes	Potential SRE	WAM
	<i>Synothele</i> `Mt Gibson sp. 1`	undetermined	Yes	Potential SRE	WAM
	<i>Synothele</i> `sp. B05`	undetermined	Yes	Potential SRE	WAM
	<i>Synothele durokoppin</i>	>10,000 km ²	No	Not an SRE	NatureMap
Euagridae	<i>Cethegus</i> `sp. B02`	undetermined	Yes	Potential SRE	WAM
	<i>Cethegus</i> `sp. nov. (cf. ischnotheloides)`	undetermined	Yes	Potential SRE	WAM
Halonoproctidae	<i>Conothele</i> `MYG550`	undetermined	Yes	Potential SRE	WAM
Idiopidae	<i>Blakistonia</i> `MYG148`	undetermined	Yes	Potential SRE	WAM
	<i>Bungulla bertmaini</i>	<10,000 km ²	Yes	Potential SRE	Rix et al. 2017
	<i>Bungulla ferraria</i>	<10,000 km ²	Yes	Potential SRE	Rix et al. 2018b
	<i>Bungulla inermis</i>	<10,000 km ²	Yes	Potential SRE	Rix et al. 2018b

Family	Taxon	Distribution	Data Deficient	SRE Status	Source
Idiopidae (cont.)	<i>Eucyrtops</i> `MYG149`	undetermined	Yes	Potential SRE	WAM
	<i>Euoplos</i> `mt_gibson_hoggi_gp`	undetermined	Yes	Potential SRE	WAM
	<i>Gaius villosus</i>	>10,000 km ²	No	Not an SRE	ALA
	<i>Idiosoma</i> `Mt Gibson sp. 1`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma</i> `sp. 2`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma</i> `sp. 3`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma</i> `sp. B04`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma</i> `sp. B08`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma</i> `sp. B09 plug`	undetermined	Yes	Potential SRE	WAM
	<i>Idiosoma castellum</i>	>10,000 km ²	No	Not an SRE	ALA/Rix et al. 2018a
	<i>Idiosoma formosum</i>	<10,000 km ²	No	SRE (Endangered)	ALA/Rix et al. 2018a
	<i>Idiosoma kopejtkorum</i>	<10,000 km ²	No	SRE (Endangered)	ALA/Rix et al. 2018a
Theraphosidae	<i>Selenotholus foelschei</i>	>10,000 km ²	No	Not an SRE	ALA
Harvestmen					
Neopilionidae	`Genus indet.`	undetermined	Yes	Potential SRE	WAM
Millipedes					
Paradoxosomatidae	<i>Antichiropus</i> `DIP115, PM1`	undetermined	Yes	Potential SRE	WAM
	<i>Antichiropus</i> `DIP131, charles darwin`	undetermined	Yes	Potential SRE	WAM
	<i>Antichiropus alatus</i>	<10,000 km ²	Yes	Potential SRE	WAM
	<i>Antichiropus sagittulus</i>	<10,000 km ²	Yes	Potential SRE	Car and Harvey 2014
	<i>Antichiropus westi</i>	<10,000 km ²	Yes	Potential SRE	Car and Harvey 2014
Siphonotidae	`Genus indet.`	undetermined	Yes	Potential SRE	WAM
Snails					
Bothriembryontidae	<i>Bothriembryon</i> sp.	<10,000 km ²	Yes	Potential SRE	WAM
Camaenidae	<i>Sinumelon</i> cf. <i>vagante</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Sinumelon vagante</i>	>10,000 km ²	No	Not an SRE	WAM
Planorbidae	Unidentified sp.	>10,000 km ²	No	Not an SRE	WAM
Punctidae	<i>Westralaoma aprica</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Westralaoma expicta</i>	>10,000 km ²	No	Not an SRE	WAM
Pupillidae	<i>Gastrocopta bannertonensis</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Gastrocopta</i> cf. <i>bannertonensis</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Pupoides adalaidae</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Pupoides</i> cf. <i>beltianus</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Pupoides myoporinae</i>	>10,000 km ²	No	Not an SRE	WAM
	<i>Pupoides</i> cf. <i>myoporinae</i>	>10,000 km ²	No	Not an SRE	WAM
Succineidae	<i>Succinea</i> sp.	>10,000 km ²	No	Not an SRE	WAM

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5.0 Survey Results

5.1 Fauna Habitats

Three broad fauna habitats were identified in the study area (Figure 5.1):

- **Mixed shrubland (MS):** This represented ~926 ha within the study area. It comprises the Focused Vision Consulting (2022) vegetation units dominated by *Acacia* sp. shrubland, *Allocasuarina* sp. shrubland, or *Callitris columellaris* woodland, often with *Melaleuca* spp., *Eremophila* spp. and *Olearia* spp. mixed shrubland with scattered *Eucalyptus* spp. mallee. Associated with sandy clay loam and sandy loam plains and distributed continuously throughout the study area (Plate 5.1).
- **Eucalypt woodland (EW):** This represented ~532 ha within the study area. It comprises the Focused Vision Consulting (2022) vegetation units dominated by *Eucalyptus loxophleba* (York Gum), *Eucalyptus salmonophloia* (Salmon Gum) or *Eucalyptus salubris* (Gimlet). Associated with clay loam and sandy clay loam plains and distributed in large patches through the study area (Plate 5.2).
- **Previously cleared (CL):** This represented ~459 ha within the study area, (excluding existing mine pits). It comprises the Focused Vision Consulting (2022) vegetation units that have been cleared and devoid of vegetation and cleared, but left for natural regeneration to occur. Regeneration is dominated by young, open *Acacia acuminata* regrowth (Plate 5.3).



Plate 5.1: Mixed shrubland.



Plate 5.2: Eucalypt woodland.



Plate 5.3: Previously cleared.

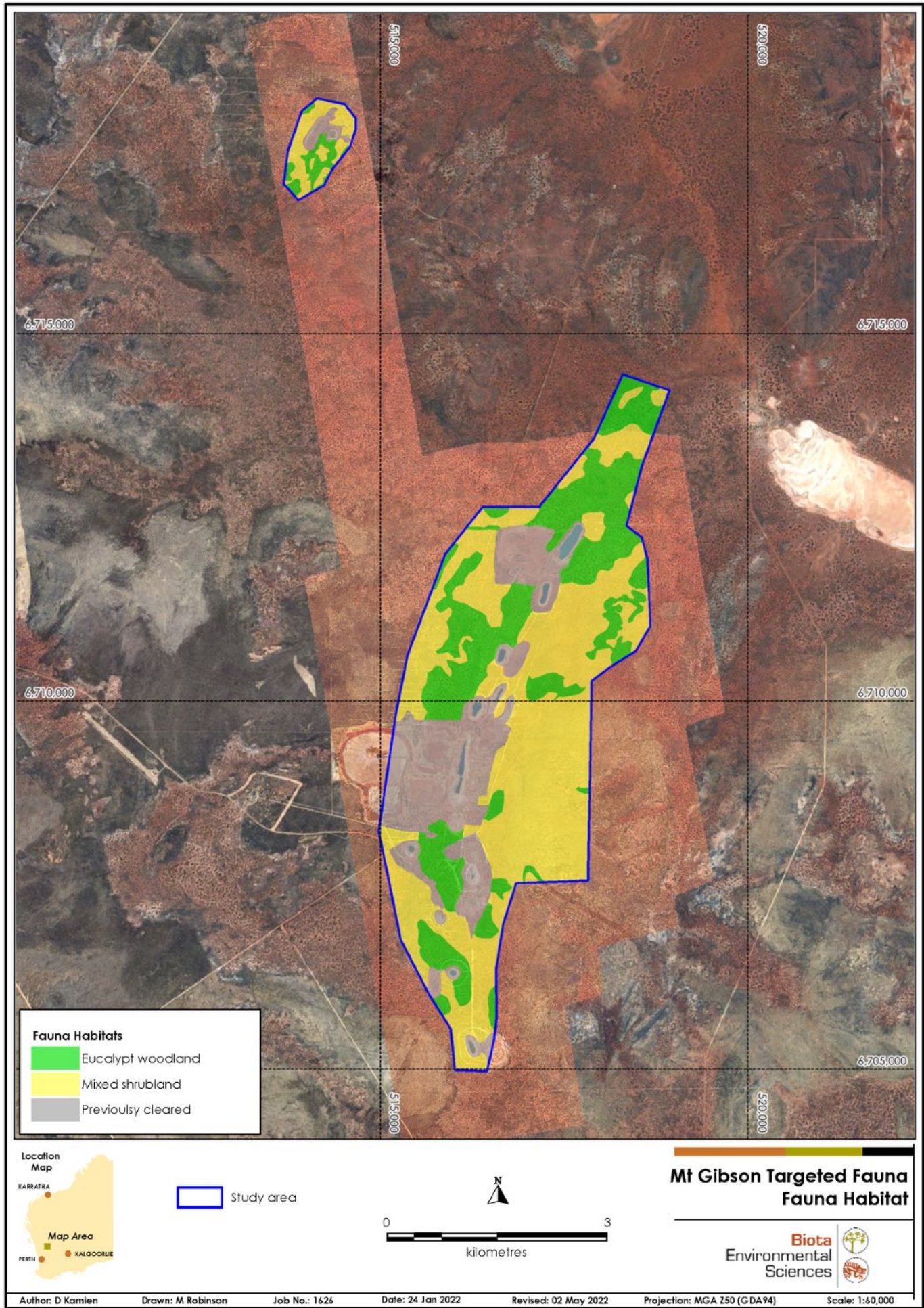


Figure 5.1: Fauna habitats within the study area.

5.2 Vertebrate Fauna

5.2.1 Malleefowl

Of the 17 potential Malleefowl mounds that were ground-truthed, 12 were confirmed mounds, but all were deemed inactive for over 10 years based on the amount of weathering (Figure 5.2, Plate 5.4 and Appendix 6). Additionally, Malleefowl tracks were recorded on two occasions within the study area in mixed shrubland (Plate 5.5), and one individual Malleefowl was recorded approximately 1.5 km north of the study area (Figure 5.2 and Appendix 6).



Plate 5.4: Defunct Malleefowl mound.

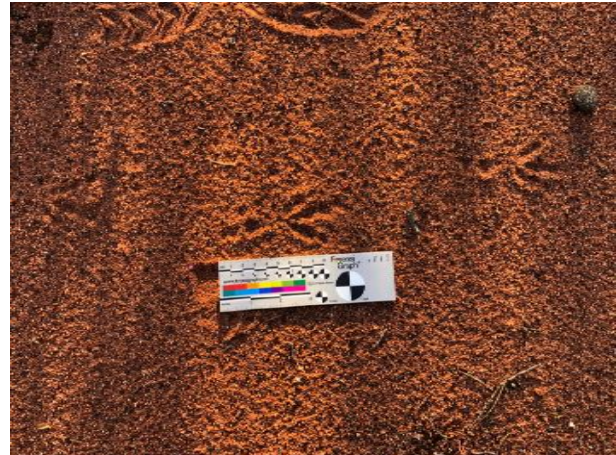


Plate 5.5: Malleefowl tracks.

5.2.2 Western Spiny-tailed Skink

No evidence of the Vulnerable Western Spiny-tailed Skink (*Egernia stokesii badia*) was recorded from the study area.

5.2.3 Common Slender Bluetongue

No evidence of the Vulnerable Common Slender Bluetongue (*Cyclodomorphus branchialis*) was recorded from the study area.

5.2.4 Peregrine Falcon

A pair of Peregrine Falcon (*Falco peregrinus*) was recorded at the edge of the mine pit in the minor project area, at co-ordinates -29.671097, 117.1480751 (Figure 5.2).

5.2.5 Central Long-eared Bat

The Priority 3 Central Long-eared Bat (*Nyctophilus major tor*) was recorded throughout the study area in all but two sampled sites (see Table 5.1 and Figure 5.2).

Table 5.1: Central Long-eared Bat echolocation records.

Site	Landform	Echolocation Count
MGT01Bat	Depression (water)	38
MGT02Bat	Mine pit (water)	693
MGT03Bat	Mine pit (water)	0
MGT04Bat	Plain	13
MGT05Bat	Depression (water)	0
MGT06Bat	Plain (Flood Plain)	134
MGT07Bat	Mine pit (water)	220
MGT08Bat	Plain	87
MGT09Bat	Plain	79
MGT10Bat	Mine pit (water)	21

Site	Landform	Echolocation Count
MGT11Bat	Mine pit (water)	6
MGT12Bat	Plain	282
MGT13Bat	Plain	51
MGT14Bat	Mine pit (water)	1545
MGT15Bat	Mine pit (water)	654

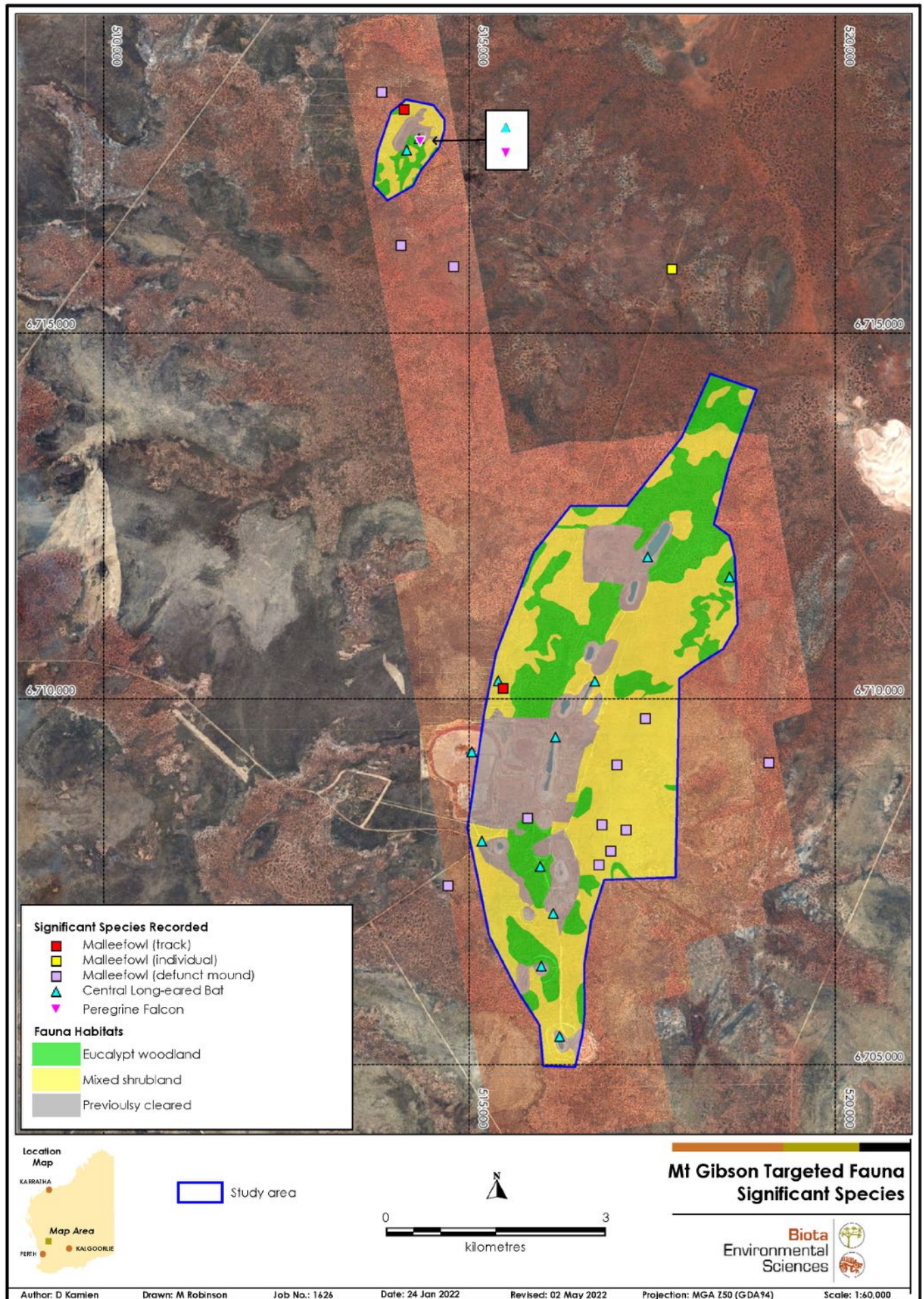


Figure 5.2: Significant vertebrate species recorded during the survey.

5.3 Short-Range Endemic Invertebrates

Three higher-order taxonomic groups with the potential to include SRE species were recorded within the study area, comprising mygalomorph spiders, millipedes and land snails. Sections 5.3.1 to 5.3.3 provide accounts of each species. Table 5.2 summarises the records by sites, with nominal spider species determined via molecular analysis (Appendix 7).

Table 5.2: Summary of potential SRE invertebrate fauna recorded during the survey.

Invertebrate Group Family	Taxon	Number Recorded	Habitat †	Sites Recorded	Previously Recorded	Known to Occur Outside Study Area
Mygalomorph Spiders						
Anamidae	<i>Aname</i> sp. H-N84	2	EW	MGT10SRE_MG	Yes	Yes
	<i>Aname</i> sp. H-N154 / MYG364	8	EW	MGT01SRE_MG MGT02SRE_SS MGT02SRE_MG MGT07SRE_MG MGT08SRE_MG MGT10SRE_MG	Yes	Yes
	<i>Aname</i> sp. H-N155	1	EW	MGT07SRE_MG	No	No
	<i>Aname</i> sp. H-N156	8	EW and MS	MGT01SRE_SS MGT05SRE_RD MGT05SRE_SS MGT09SRE_MG MGT14SRE_MG	No	No
	<i>Aname</i> sp. H-N157	8	EW and MS	MGT01SRE_SS MGT01SRE_RD MGT02SRE_RD MGT02SRE_SS MGT03SRE_RD MGT08SRE_MG MGT10SRE_MG	No	No
	<i>Aname</i> sp. H-N158	3	MS	MGT09SRE_MG	No	No
	<i>Kwonkan</i> sp. H-N159	1	MS	MGT15SRE_MG	No	No
	<i>Kwonkan</i> sp. H-N160	1	MS	MGT14SRE_MG	No	No
Euagridae	Euagridae sp. H-EB_E02	2	MS	MGT01SRE_SS MGT06SRE_MG	No	No
	Euagridae sp. H-EC_E03	2	MS	MGT10SRE_MG MGT09SRE_MG	No	Yes
	Euagridae sp. H-ED_E04	1	MS	MGT05SRE_SS	No	No
Barychelidae	<i>Aureocrypta</i> sp. H-B50	1	EW	MGT07SRE_MG	No	No
	<i>Idiommatia</i> sp. H-B51	1	EW	MGT02SRE_SS	No	No
Idiopidae	<i>Idiosoma kopeitkaorum</i>	4	EW and MS	MGT01SRE_SSMG MGT02SRE_RD MGT10SRE_MG	Yes	Yes
	<i>Idiosoma</i> sp. MYG222	1	MS	MGT03SRE_RD	Yes	Yes
Halanoproctidae	<i>Conothele</i> sp. H3/MYG550	1	MS	MGT05SRE_SS	Yes	Yes
Millipedes						
Paradoxosomatidae	<i>Antichiropus alatus/sagittulus</i>	5	EW	MGT11SRE_MG MGT13SRE_MG	Yes	Yes
Land Snails						
Camaenidae	<i>Sinumelon kalgum/vagante</i>	5	EW	MGT06SRE_MG MGT11SRE_MG	Yes	Yes

† EW = eucalypt woodland; MS = Mixed shrubland

5.3.1 Mygalomorph Spiders

5.3.1.1 Anamidae

***Aname* sp. H-N84**

Distribution

Aname sp. H-N84 (Plate 5.6) was recorded on two occasions from site MGT10SRE_MG, located outside of the study area (Table 5.2, Figure 5.3 and Appendix 7). It is known from only one additional record, in the locality (Appendix 7).

Habitat

The specimens were recorded from eucalypt woodland habitat within the Pindar soil landscape on sandy clay loam substrate. Its burrow is characterised by an open hole (Plate 5.7).



Plate 5.6: *Aname* sp. H-N84.



Plate 5.7: *Aname* sp. H-N84 burrow.

***Aname* sp. H-N154 / MYG364**

Distribution

Aname sp. H-N154/MYG364 (Plate 5.8) was recorded on eight occasions from five sites within the study area and one site outside of the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is known from a further single record, in the locality (Appendix 7).

Habitat

The specimens were recorded primarily from eucalypt woodland habitat in all four soil landscapes of the study area. Its burrow is characterised by an open hole, often with a silk covering (Plate 5.9).



Plate 5.8: *Aname* sp. H-N154/MYG364.



Plate 5.9: *Aname* sp. H-N154/MYG364 burrow.

Aname* sp. H-N155Distribution*

Aname sp. H-N155 (Plate 5.10) was recorded on one occasion from site MGT07SRE_MG, located outside of the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimen was recorded from eucalypt woodland habitat within the Pindar soil landscape on sandy clay loam substrate. Its burrow is characterised by an open hole (Plate 5.11).



Plate 5.10: *Aname* sp. H-N155.



Plate 5.11: *Aname* sp. H-N155 burrow.

Aname* sp. H-N156Distribution*

Aname sp. H-N156 (Plate 5.12) was recorded on eight occasions from five sites within the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimens were recorded primarily from mixed shrubland habitat in the Pindar, Joseph and Euchre soil landscapes of the study area, however one specimen was recorded in eucalypt woodland. Its burrow is characterised by an open hole (Plate 5.13).



Plate 5.12: *Aname* sp. H-N156.



Plate 5.13: *Aname* sp. H-N156 burrow.

Aname sp. H-N157Distribution

Aname sp. H-N157 (Plate 5.14) was recorded on eight occasions from six sites within the study area and one site outside of the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species has not previously been recorded (Appendix 7).

Habitat

Appearing not to be habitat specific, this taxon was recorded in eucalypt woodland and mixed shrubland habitat in the Pindar, Joseph and Euchre soil landscapes. Its burrow is characterised by an open hole with a curved hood of soil and web partially covering the entrance (Plate 5.15).



Plate 5.14: *Aname* sp. H-N157.



Plate 5.15: *Aname* sp. H-N157 burrow.

Aname sp. H-N158Distribution

Aname sp. H-N158 (Plate 5.16) was recorded on three occasions from one site within the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

Specimens were recorded from mixed shrubland habitat on sandy clay loam substrate. Its burrow is characterised by an open hole (Plate 5.17).



Plate 5.16: *Aname* sp. H-N158.



Plate 5.17: *Aname* sp. H-N158 burrow.

Kwonkan sp. H-N159Distribution

Kwonkan sp. H-N159 (Plate 5.18) was recorded on one occasion from site MGT15SRE_MG, located within the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimens were recorded from mixed shrubland habitat within the Pindar soil landscape on sandy clay loam substrate. Its burrow is characterised by a mound of sand, under which there is a tube of silk at the burrow entrance (Plate 5.19).



Plate 5.18: Kwonkan sp. H-N159.



Plate 5.19: Kwonkan sp. H-N159 burrow.

Kwonkan sp. H-N160Distribution

Kwonkan sp. H-N160 (Plate 5.20) was recorded on one occasion from site MGT14SRE_MG, located within the study area (Table 5.2, Figure 5.3 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimens were recorded from mixed shrubland habitat within the Euchre soil landscape on sandy clay loam substrate. Its burrow is characterised by a mound of sand, under which there is a tube of silk at the burrow entrance (Plate 5.21).



Plate 5.20: Kwonkan sp. H-N160.



Plate 5.21: Kwonkan sp. H-N160 burrow.

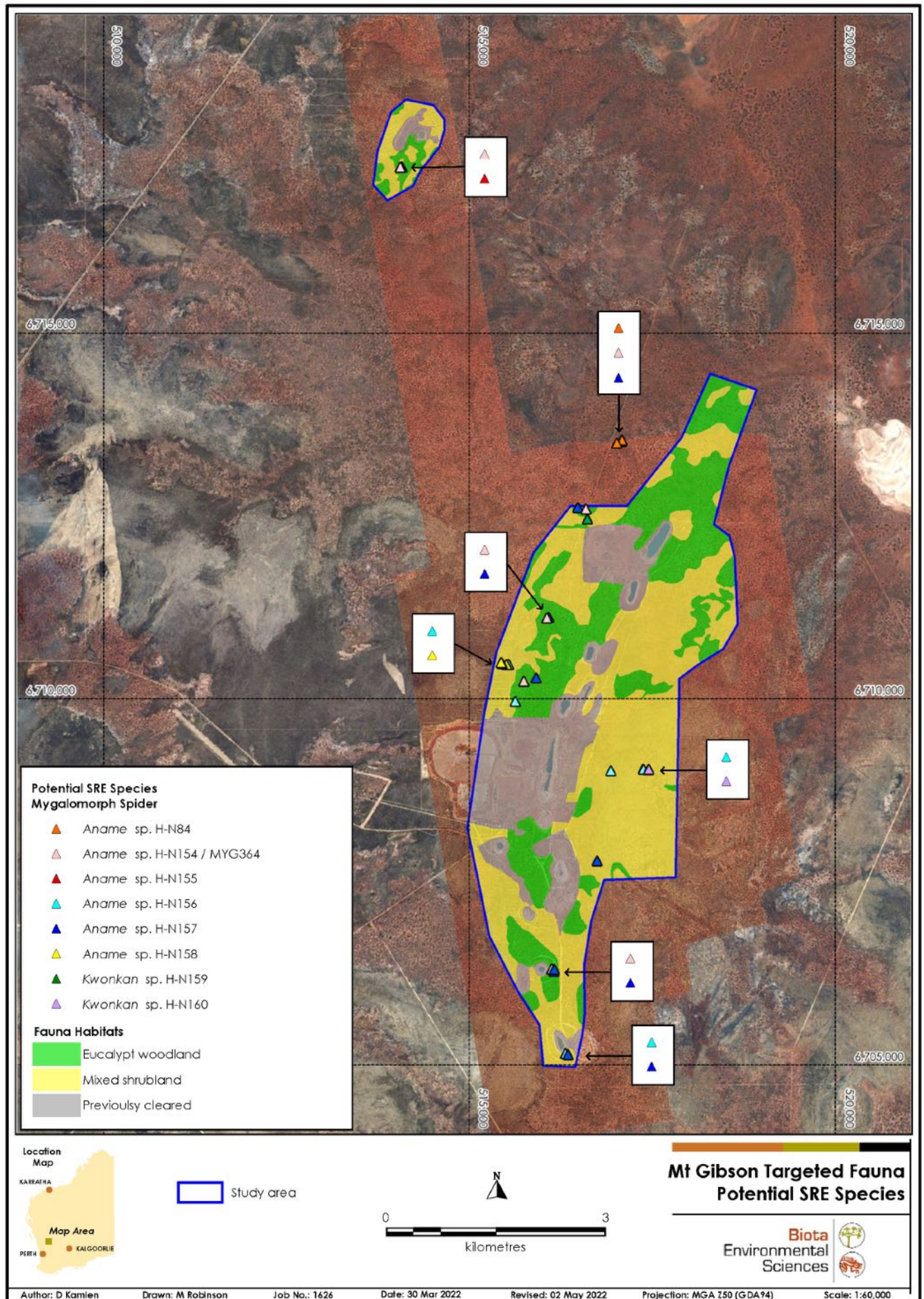


Figure 5.3: Mygalomorph spiders of the family Anamidae recorded during the survey.

5.3.1.2 Euagridae

Euagridae sp. H-EB_E02

Distribution

Euagridae sp. H-EB_E02 (Plate 5.22) was recorded on two occasions from two site within the study area (Table 5.2, Figure 5.4 and Appendix 7). These are the only known records of this putative species (Appendix 7).

Habitat

Specimens were recorded from mixed shrubland (previously cleared) and eucalypt woodland habitat on sandy clay loam substrate. Its burrow is characterised by a messy web at the entrance hole (Plate 5.23).



Plate 5.22: Euagridae sp. H-EB_E02.



Plate 5.23: Euagridae sp. H-EB_E02 burrow.

Euagridae sp. H-EC_E03

Distribution

Euagridae sp. H-EC_E03 (Plate 5.24) was recorded on two occasions each from within the study area and outside the study area (Table 5.2, Figure 5.4 and Appendix 7). These are the only known records of this putative species (Appendix 7).

Habitat

Specimens were recorded from mixed shrubland habitat on sandy clay loam and clay loam substrates. Its burrow is characterised by a messy web at the entrance hole (Plate 5.25).



Plate 5.24: Euagridae sp. H-EC_E03.



Plate 5.25: Euagridae sp. H-EC_E03 burrow.

Euagridae sp. H-ED_E04Distribution

Euagridae sp. H-ED_E04 (Plate 5.26) was recorded on one occasion from site MGT05SRE_SS, located within the study area (Table 5.2, Figure 5.4 and Appendix 7). This is the only known record of this putative species (Appendix 7).

Habitat

The specimen was recorded from mixed shrubland habitat on clay loam substrate. Its burrow is characterised by a messy web at the entrance hole (Plate 5.27).



Plate 5.26: Euagridae sp. H-ED_E04.



Plate 5.27: Euagridae sp. H-ED_E04 burrow.

5.3.1.3 Barychelidae**Aureocrypta sp. H-B50**Distribution

Aureocrypta sp. H-B50 (Plate 5.28) was recorded on one occasion from site MGT07SRE_MG, located within the study area (Table 5.2, Figure 5.4 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimen was recorded from eucalypt woodland habitat on clay loam substrate. It was raked from leaf litter and no burrow was located.



Plate 5.28: Aureocrypta sp. H-B50.

***Idiommata* sp. H-B51**Distribution

Idiommata sp. H-B51 (Plate 5.29) was recorded on one occasion from site MGT02SRE_SS, located within the study area (Table 5.2, Figure 5.4 and Appendix 7). This putative species is not known from any other location (Appendix 7).

Habitat

The specimen was recorded from eucalypt woodland habitat on clay loam substrate. The burrow was located under a log, with a thin silk lid covering a twig lined burrow. Plate 5.30 shows the burrow, which was disturbed on removal of the log.



Plate 5.29: *Idiommata* sp. H-B51.



Plate 5.30: *Idiommata* sp. H-B51 burrow (disturbed).

5.3.1.4 Idiopidae***Idiosoma kopejtkaurum***Distribution

Idiosoma kopejtkaurum (Plate 5.31) was recorded on four occasions from two sites within the study area and one site outside the study area (Table 5.2, Figure 5.4 and Appendix 7). This species has been documented on numerous occasions beyond the study area (Appendix 7). Its documented distribution spans <300 km² (ALA database and Rix et al. (2018a)) and it is therefore considered to be an SRE. Prior to this survey, no records were known from the study area.

Habitat

Idiosoma kopejtkaurum was recorded in eucalypt woodland and mixed shrubland habitat. Eucalypt woodland comprises core breeding habitat (Avon Catchment Council 2008). Its burrow is characterised by being a lidded, twig lined burrow (Plate 5.32).



Plate 5.31: *Idiosoma kopejtkaurum*.



Plate 5.32: *Idiosoma kopejtkaurum* burrow.

***Idiosoma* sp. MYG222**Distribution

Idiosoma sp. MYG222 (Plate 5.33) was recorded on one occasion from site MGT03SRE_RD, located within the study area (Table 5.2, Figure 5.4 and Appendix 7). This taxon is known to occur outside the study area, with at least seven additional specimens collected from the locality (Appendix 7).

Habitat

The specimens were recorded from mixed shrubland habitat on sandy clay loam substrate. Its burrow entrance is sealed by a clay door (Plate 5.34 and Plate 5.35).



Plate 5.33: *Idiosoma* sp. MYG222.

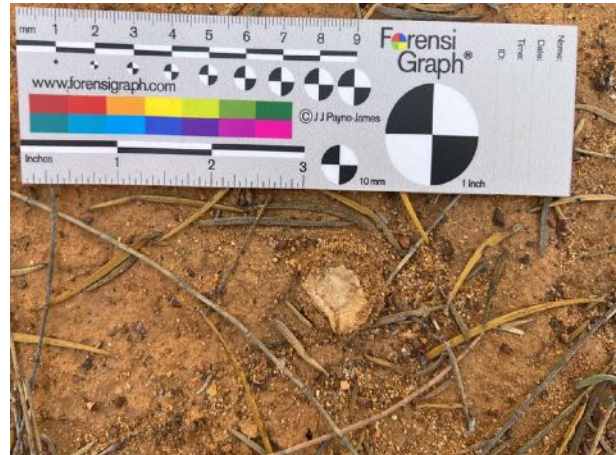


Plate 5.34: *Idiosoma* sp. MYG222 closed burrow.

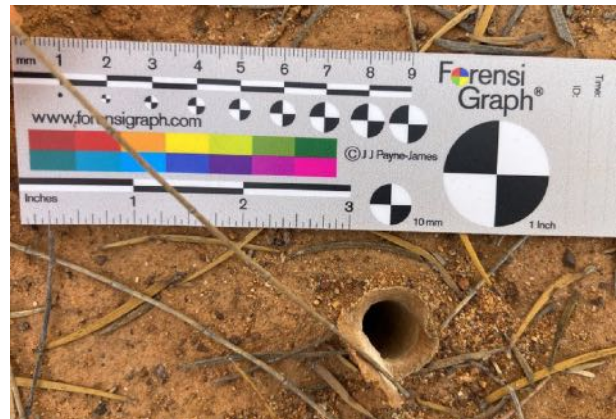


Plate 5.35: *Idiosoma* sp. MYG222 open burrow.

5.3.1.5 Halanoproctidae

***Conothele* sp. H3/MYG550**Distribution

Conothele sp. H3/MYG550 (Plate 5.36) was recorded on one occasion from site MGT05SRE_SS, located within the study area (Table 5.2, Figure 5.4 and Appendix 7). This nominal species is known from at least one additional specimen collected outside the study area (Appendix 7).

Habitat

The specimen was recorded from mixed shrubland habitat on sandy clay loam substrate. Its burrow entrance is sealed by a clay door (Plate 5.37 and Plate 5.38).



Plate 5.36: *Conothele* sp. H3/MYG550.



Plate 5.37: *Conothele* sp. H3/MYG550 closed burrow.



Plate 5.38: *Conothele* sp. H3/MYG550 open burrow.

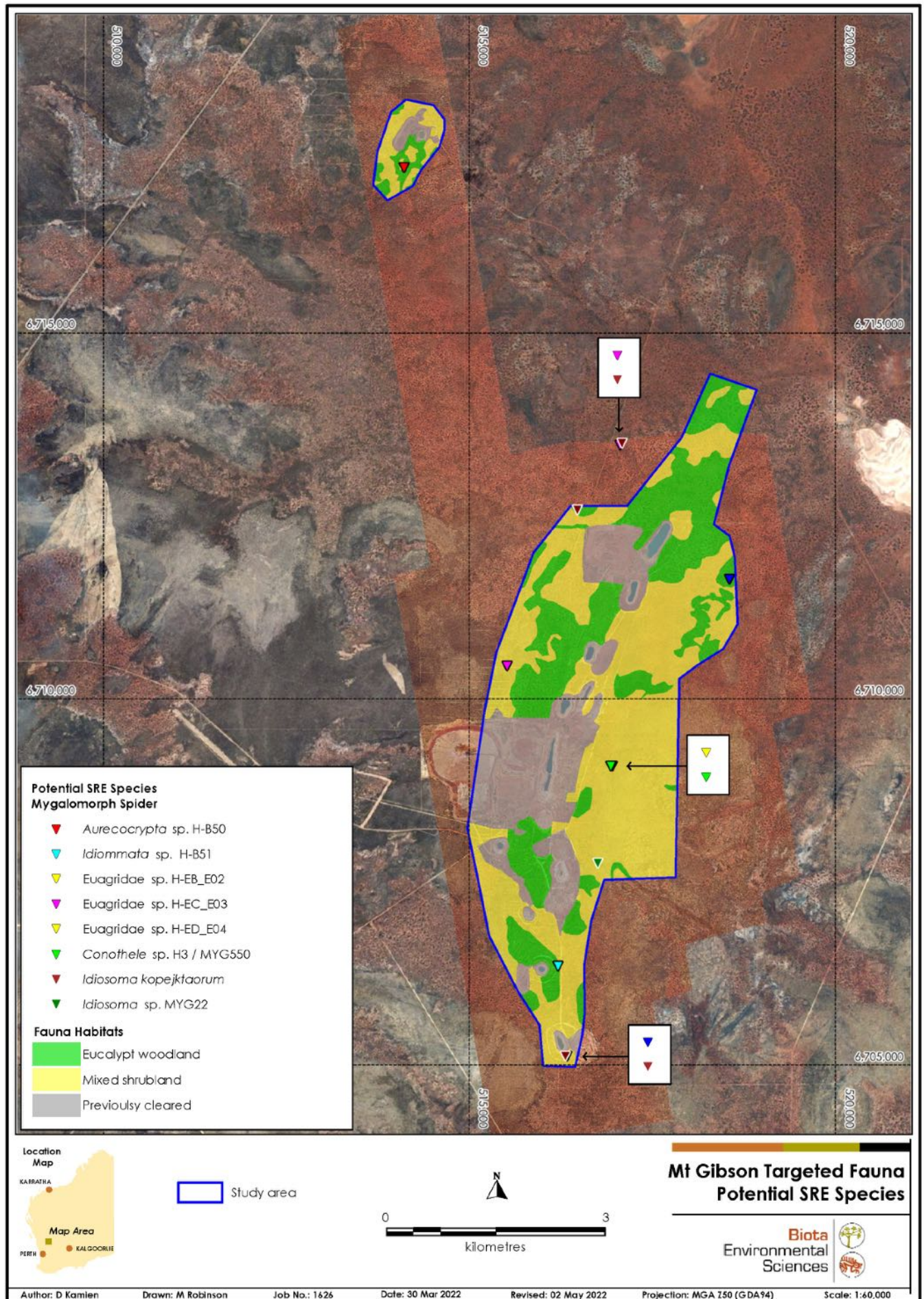


Figure 5.4: Mygalomorph spiders of the families Euagridae, Barychelidae and Idiopidae recorded during the survey.

5.3.2 Millipedes

Antichiropus alatus/sagittulus

Distribution

Five millipedes of the genus *Antichiropus* (Plate 5.39) were recorded from site MGT11SRE located within the study area, and site MGT13SRE_MG located outside of the study area (Table 5.2 and Figure 5.5). Morphological identification of this genus is, in part, dependent on male reproductive organ (gonopod) morphology. As no males were recorded during the survey, the recorded taxon could only be identified as being either *A. alatus* or *A. sagittulus*. Both of these species are SREs, but both are known to also occur outside of the study area (ALA database and Car and Harvey (2014)).

Habitat

Within the study area, millipedes were recorded under leaf litter in eucalypt woodland.



Plate 5.39: *Antichiropus alatus/sagittulus*.

5.3.3 Land Snails

Sinumelon kalgum/vagente

Distribution

Five pulmonate snails of the genus *Sinumelon* (Plate 5.40) were recorded from two sites located within the study area in eucalypt woodland habitat (Table 5.2 and Figure 5.5). Although molecular sequencing was not conducted, snails were identified on the basis of morphology as being either *S. kalgum* or *S. vagente*. Both of these species have a distribution greater than 10,000 km² (ALA database) and thus do not represent SREs (Harvey 2002) and are not restricted to the study area.

Habitat

Within the study area, land snails were recorded under leaf litter in eucalypt woodland. Other studies have also recorded *Sinumelon* species in mixed shrubland in the locality (Bennelongia 2012 and WAM database).



Plate 5.40: *Sinumelon kalgum/vagente*.

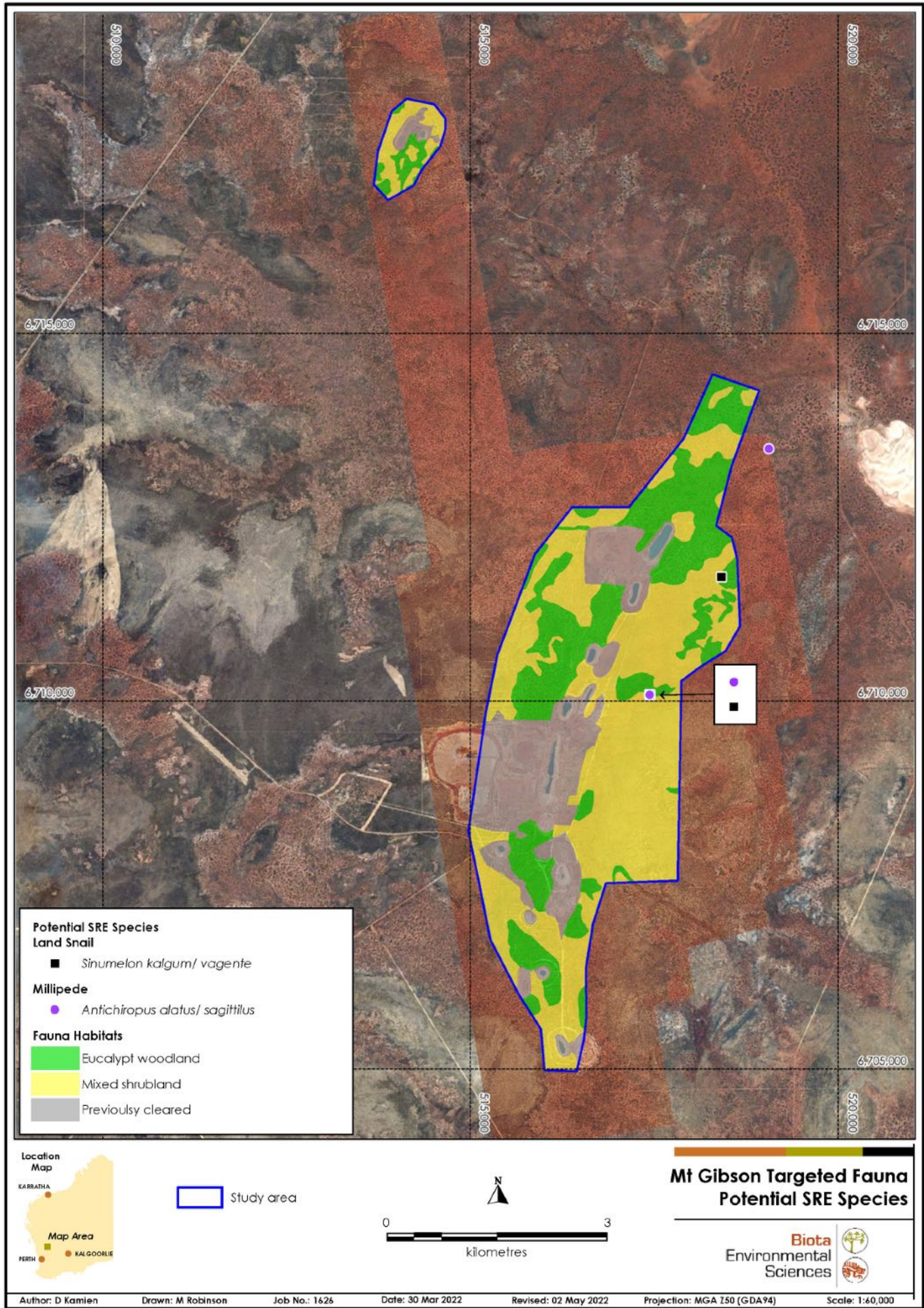


Figure 5.5: Snails and millipedes recorded during the survey.

6.0 Discussion and Key Findings

6.1 Fauna Habitat

When assessing the value of habitat in the study area, it is prudent to determine the core habitat of individual species of significance. Core habitat for species of significance equates to “habitat critical to the survival of a species” (DoE 2013). Such habitats include those that are known, or are likely, to be utilised by listed species for key ecological activities such as nesting, denning, roosting, breeding, refugia, and important foraging areas. As a result, it is assumed that some proportion of this habitat must be maintained across the species’ range to ensure the persistence of the species in the region. Secondary habitats may be used for lesser foraging or on a transitory, dispersing, or occasional basis, but do not represent core habitat.

In short, when considering the faunal value of habitats within the study area, the following criteria can be used to assess areas of higher habitat value. These are habitats that:

- support fauna of conservation significance;
- support unique faunal assemblages; and/or
- are uncommon in the region.

Using these criteria, in combination with the habitat preferences of the Threatened species, both the eucalypt woodland and mixed shrubland represent high faunal value in the study area, providing core and secondary habitats for MNES species occurring or potentially occurring within the study area (Table 6.1). However, based on examination of aerial imagery, soil landscapes mapping and vegetation mapping, these core and secondary habitats are not restricted to the study area and their attributes are typical of habitat types in the region. The habitats are common and widespread in the study area locality.

Table 6.1: Habitat preference for MNES species occurring or likely to occur within the study area.

Species	Core Habitat	Secondary Habitat
Malleefowl	• Eucalypt woodland • Mixed shrubland	–
Western Spiny-tailed Skink	• Eucalypt woodland	–
Lake Goorly Shield-Backed Trapdoor Spider	• Eucalypt woodland • Mixed shrubland	• Previously cleared
Ornate Shield-backed Trapdoor Spider	• Eucalypt woodland • Mixed shrubland	• Previously cleared

6.2 Vertebrate Fauna

Targeted vertebrate survey effort and methodology was informed by the likelihood of occurrence of significant species and is deemed adequate to inform EIA. Appendix 5 summarises the 14 significant vertebrate species returned from the desktop study (Section 4.0) in respect to their likelihood of occurrence within the study area. For each species, this was determined by consideration of known distributions, availability of preferred habitat within the study area, and the last known records. Three of the 14 species were recorded during the survey, with a further three species deemed ‘likely to occur’ or ‘may occur’.

6.3 Potential SREs

SRE survey effort is deemed adequate to inform EIA, with sampling being conducted in representative habitats. Of the 18 potential SRE invertebrate taxa collected during the survey, 10 nominal mygalomorphae species from three families are known solely from the study area (Table 5.2). The remaining eight taxa have been demonstrated to occur outside of the study area. Appendix 5 indicates the occurrence or likely occurrence of two Commonwealth listed

invertebrate species that occur or have potential to occur in the study area.

Both eucalypt woodland and mixed shrubland habitats are common in the locality and exist contiguously with that of the study area (Section 6.1), indicating that habitat attributes are unlikely to result in a high risk of species level distributions being restricted to the scale of the current study area. This is supported by the fact that eight invertebrate taxa (six mygalomorph spiders, one millipede and one snail) have been recorded outside of the study area, indicating that there is no overall mechanism limiting dispersal or gene flow within these groups, at the locality scale. Additionally, there are no obvious geomorphological or habitat attributes that would suggest a high risk of restricted distributions in respect to the fauna of the study area.

It is likely that the 10 taxa documented solely from the study area during this study, do in fact occur outside of the study area (see Section 6.1). The absence of records outside of the study area may be due to inadequate sampling effort and the cryptic nature of many mygalomorph species making them difficult to locate. It may also be due to a lack of molecular species level resolution for many previously recorded taxa, thereby preventing comparison of records.

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8.0 Glossary

BC Act	Western Australian <i>Biodiversity Conservation Act 2016</i> .
Biota	Biota Environmental Sciences.
DBCA	Department of Biodiversity, Conservation and Attractions.
EIA	Environmental Impact Assessment.
EPA	Environmental Protection Authority of Western Australia.
EPBC Act	Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
Haplotype	A set of markers (polymorphisms) on a single chromosome that tend to be inherited together.
IBRA	Interim Biogeographic Regionalisation for Australia.
Landform	A geomorphological unit that is largely defined by its surface form and location in the study area.
MNES species	Species that are listed as Matters of National Environmental Significance under the EPBC Act.
Phragmosis	Method by which an animal defends itself in its burrow, by using its own body as a barrier.
SM Mini Bat	Song Meter Mini acoustic bat call recorder.
sp. (plural: spp.)	Abbreviation of "species".
SRE	Short-range endemic.
Study area	The area in which the on-ground survey was conducted; i.e. the 1,830 ha main project area and the 86 ha minor project area.
Systematic sampling	Sampling using trapping transects (including pitfall traps, Elliott traps or funnel traps) and avifauna censuses in defined habitats.
Taxon (plural: taxa)	A taxonomic entity, typically at species level or below.
WAM	Western Australian Museum.

Appendix 1

Threatened Fauna Statutory Framework



Commonwealth *EPBC Act 1999*

Fauna species of national environmental significance are listed under the Commonwealth *EPBC Act*, and may be classified as 'critically endangered', 'endangered', 'vulnerable' or 'lower risk', which are consistent with IUCN categories.

Critically Endangered (CR): a taxon is Critically Endangered when it is facing an extremely high risk of extinction in the wild in the immediate future.

Endangered (EN): a taxon is Endangered when it is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future.

Vulnerable (VU): a taxon is Vulnerable when it is not Critically Endangered or Endangered but is facing a high risk of extinction in the wild in the medium-term future.

Lower Risk (LR): a taxon is Lower Risk when it has been evaluated, does not satisfy the criteria for any of the categories Critically Endangered, Endangered or Vulnerable. Taxa included in the Lower Risk category can be separated into three subcategories:

1. **Conservation Dependent (CD).** Taxa which are the focus of a continuing taxon-specific or habitat-specific conservation program targeted towards the taxon in question, the cessation of which would result in the taxon qualifying for one of the threatened categories above within a period of five years.
2. **Near Threatened (NT).** Taxa which do not qualify for Conservation Dependent, but which are close to qualifying for Vulnerable.
3. **Least Concern (LC).** Taxa which do not qualify for Conservation Dependent or Near Threatened.

Migratory species are also protected under the *EPBC Act* as species of national environmental significance. Migratory species are those animals that migrate to Australia and its external territories, or pass through or over Australian waters during their annual migrations. The list of migratory species consists of those species listed under the following international conventions:

1. Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention);
2. China-Australia Migratory Bird Agreement (CAMBA);
3. Japan-Australia Migratory Bird Agreement (JAMBA); and,
4. Republic of Korea-Australia Migratory Bird Agreement (ROKAMBA).

Western Australian *Biodiversity Conservation Act 2016*

The Wildlife Conservation (Specially Protected Fauna) Notice 2018 has been transitioned under regulations 170, 171 and 172 of the Biodiversity Conservation Regulations 2018 to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the Biodiversity Conservation Act 2016:

Threatened Species

Critically Endangered (CR): Threatened species considered to be “facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines.

Endangered (EN): Threatened species considered to be “facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines”.

- **Vulnerable (VU):** Threatened species considered to be “facing a high risk of extinction in the wild in the medium term future, as determined in accordance with criteria set out in the ministerial guidelines”.

Extinct Species

Extinct Species (EX): Species where “there is no reasonable doubt that the last member of the species has died”

- **Extinct in the wild (EW):** Species that “is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form”

Specially Protected Species

- **Migratory (MI):** Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth.

Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program

Species of special conservation interest (conservation dependent fauna) (CD): Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened.

- **Other specially protected fauna (OS):** Fauna otherwise in need of special protection to ensure their conservation

Department of Biodiversity, Conservation and Attractions Priority Listing

The DBCA maintains a list of Priority species that have not been assigned statutory protection under the *Biodiversity Conservation Act 2016*. Species on this list are considered to be of conservation priority because there is insufficient information to make an assessment of their conservation status or they are considered to be rare but not threatened and are in need of monitoring. Under this list, species are classified according to four Priority categories:

Priority 1: Poorly known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

Priority 2: Poorly known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

Priority 3: Poorly known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

Priority 4: Rare, Near Threatened and other species in need of monitoring

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy. conservation lands.

Appendix 2

Fauna Taking Licence



FAUNA TAKING (BIOLOGICAL ASSESSMENT) LICENCE

Regulation 27, Biodiversity Conservation Regulations 2018

Licence Number: BA27000554
Licence Holder: Mr Daniel Kamien
Biota Environmental Pty Ltd
PO Box 155
LEEDERVILLE WA 6903

Date of Issue: 05/11/2021
Date Valid From: 08/11/2021
Date of Expiry: 31/03/2022

LICENSED ACTIVITIES

Subject to the terms and conditions on this licence, the licence holder may –

1. Take and disturb fauna for targeted survey for fauna including *Idiosoma kopeitkaorum*, *I. formosum* and *Egernia stokesii badia* as part of the environmental approvals. *Idiosoma* spider burrows will be inspected using a spider camera. If this is unsuccessful to determine the species, *Idiosoma* sp. individuals can be excavated for identification. Specimens will be submitted to the WA Museum for DNA identification. Take and disturb *Egernia stokesii badia* by active searches of log piles and hand capture. Skinks may be temporarily held in suitable containment while the remainder of the log pile is searched, then released as soon as practicable into the same log pile. Other methods are hand capture and remote sensing using ultrasonic bat detectors. Hand capture will be conducted in accordance with Standard Operating Procedures (SOPs) for fauna survey and monitoring techniques. Also undertake short range endemic (SRE) invertebrate survey by hand capture techniques (foraging / raking), specimens will be sent for DNA analysis and subsequently lodged at the Museum of Western Australia.

LOCATIONS

1. Mt Gibson Gold Project site, 50 km north-east of Wubin (Midwest Region).

AUTHORISED PERSONS

The following persons or persons of the specified class may assist in carrying out the licensed activities:

1. Michael Greenham
2. Roxanne de Vos

CONDITIONS

1. Fauna must not be taken on CALM land, (as defined in the Conservation and Land Management Regulations 2002), unless authorised by a written notice of a lawful authority issued under regulations 4 and 8 of the Conservation and Land Management Regulations 2002.

2. If persons, other than the licence holder, are authorised to carry out/assist in carrying out the activities under the licence, the licence holder must ensure those persons have read and understand the licence terms and conditions.
3. The written authorisation of the person in possession or occupation of the land accessed and upon which fauna is taken, as required under regulation 101(2) and referred to in "Additional information" below, must:
 - a) state location details (including lot or location number, street/road, suburb and local government authority);
 - b) state land owner or occupier name, and contact phone number;
 - c) specify the time period that the authorisation is valid for;
 - d) be signed and dated; and
 - e) be attached to this licence at all times.
4. This licence, and any written authorisation or lawful authority which authorises the take of fauna on specified locations must be carried at all times while conducting licensed activities and be produced on demand by a wildlife officer.
5. If a species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* is inadvertently captured, that species is to be released immediately at the point of capture. If the fauna is injured or deceased, the licence holder shall contact the DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) for advice on treatment or disposal. Details of any capture of threatened fauna must be included in the "Return of Fauna Taken."
6. The licence holder must not:
 - a) release any fauna in any area where it does not naturally occur;
 - b) transfer fauna to any other person or authority (other than the Western Australian Museum) unless approved in writing by the CEO; or
 - c) dispose of the remains of fauna in any manner likely to interfere the natural or present day distribution of the species.
7. The licence holder must not take and remove more than ten specimens of any one protected species of fauna from any location less than 20km apart. Where exceptional circumstances make it necessary to take a larger number of specimens from a particular location in order to obtain adequate statistical data, the collector must proceed with circumspection and justify their actions to the Director General in advance.
8. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this licence must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
9. All specimens and material retained under the authority of this licence must be offered to the Western Australian Museum for loan, for inclusion in its collection, or on request be made available to other persons involved in relevant scientific studies.
10. The licence holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken" of all fauna taking activities as they occur.
11. A DBCA approved "Return of Fauna Taken" must be completed in full (including nil taking details) and submitted to DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) prior to the end of each annual period of the licence (from the valid from date) (refer to "Additional Information" section



Norman Press
LICENSING OFFICER
WILDLIFE PROTECTION BRANCH

Delegate of CEO

ADDITIONAL INFORMATION

1. It is an offence to take any species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* unless the person is authorised under Section 40. The penalty ranges between \$300 000 and \$500 000; Section 150 Biodiversity Conservation Act 2016.
2. Regulation 82 empowers the CEO to add, substitute or delete a term or condition of a licence or to correct errors. Such power may be exercised on application of a licence holder or by the CEO's own initiative. If an amendment to a licence term or condition is required, please contact the CEO or the Licensing Section on wildlifelicensing@dbca.wa.gov.au in the first instance. The licence holder, if adversely affected by a condition imposed in this licence, may apply to the State Administrative Tribunal for review of the decision of the CEO to impose that condition on a licence: regulation 89(2) Biodiversity Conservation Regulations 2018.
3. A person must not contravene a condition of a licence. The penalty for an offence involving the contravention of a condition of a licence is a fine of \$10 000: regulation 84 of the Biodiversity Conservation Regulations 2018.
4. It is an offence for persons authorised by this licence to enter land that is not in their possession or under their control without first having the *prior* written authorisation of the current owner or occupier of the land to:
 - a) enter the land; and
 - b) carry out the activity authorised by this licence.

The penalty for this offence is a fine of \$5 000: regulation 101(2) of the Biodiversity Conservation Regulations 2018.

5. The licence holder must be able to produce for inspection upon request any information or records required by regulation 85(2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to knowingly include false or misleading information or make statements in records: regulation 85(3) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to include any information or make any statement in a return that the licence holder knows to be false or misleading in a material particular: regulation 86 (2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000.
6. The approved DBCA "Return of Fauna Taken" data file can be downloaded from the DBCA webpage (<https://www.dpaw.wa.gov.au/plants-and-animals/licences-and-authorities>).
7. The issuing of a licence under the Biodiversity Conservation Regulations 2018 does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, Animal Welfare (Scientific Purposes) Regulations 2003. It is the responsibility of a licence applicant / licence holder to ensure that they comply with the requirements of all applicable legislation. Enquiries relating to the Animal Welfare Act licences and animal ethics approvals are to be directed to the Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).

8. Threatened fauna can only be taken under a *Biodiversity Conservation Act 2016* Section 40 authorisation, Occurrences of threatened species must be reported to the CEO. For more information please see <https://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-animals>.
9. Any interaction involving Nationally Listed Threatened Fauna that may be invasive and/or harmful to the fauna may require approval from the Commonwealth Department of the Environment and Energy <http://www.environment.gov.au/about-us/business-us/permits-assessments-licences>. Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and Environment Protection and Biodiversity Conservation Regulations 2000 as well as the *Biodiversity Conservation Act 2016* and Biodiversity Conservation Regulations 2018.



Department of **Biodiversity,
Conservation and Attractions**

AUTHORISATION TO TAKE OR DISTURB THREATENED SPECIES

Section 40 of the Biodiversity Conservation Act 2016

AUTHORISATION DETAILS

Authorisation type: Fauna

Authorisation number: TFA 2021-0134

Authorisation duration: From date signed by Minister's delegate, below, until 31 March 2022.

AUTHORISATION HOLDER

Daniel Kamien
Biota Environmental Sciences Pty Ltd
PO Box 155
Leederville WA 6903

AREA TO WHICH THIS AUTHORISATION APPLIES

Mt Gibson Gold Project site, 50 km north-east of Wubin (Midwest Region).

AUTHORISED ACTIVITY

Purpose of taking/disturbance:

To conduct a targeted fauna survey to inform mine planning and environmental impact assessment associated with the planned reopening of the Mount Gibson Gold Project (Capricorn Metals Ltd).

Threatened species authorised to be taken/disturbed (including conservation status):

Lake Goorly shield-backed trapdoor spider, *Idiosoma kopejtkorum* (Endangered)

Ornate shield-backed trapdoor spider, *Idiosoma formosum* (Endangered)

Western spiny-tailed skink, *Egernia stokesii badia* (Vulnerable)

Quantity of threatened species authorised to be taken/disturbed:

Any number of individual animals of the above listed threatened fauna species may be disturbed by the survey activities.

Authorised taking/disturbance methodology:

Disturb and take shield-backed trapdoor spiders by searches for burrows. If burrows distinctive of *Idiosoma kopejtkorum* or *I. formosum*, are located the burrow will not be excavated. If trapdoor spider burrows are located and species identification cannot be determined from burrow appearance, the burrow may be excavated and the spider within the burrow taken by hand collection and permanently retained as a voucher specimen (lodged with the Western Australian Museum). Hand collection may

inadvertently take individuals of the threatened species, *I. kopejtkorum* and/or *I. formosum*, if the burrow is not distinctive as being one of those species.

Disturb and take *Egernia stokesii badia* by active searches of log piles and hand capture. Skinks may be temporarily held in suitable containment, while the remainder of a log pile is searched, then released as soon as practicable into the same log pile.

All proposed activities will be conducted in accordance with DBCA Standard Operating Procedures (SOPs) for fauna survey and monitoring techniques, DSEWPaC Survey Guidelines for Threatened Reptiles and EPA Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment.

ADDITIONAL AUTHORISED PERSONS

Michael Greenham

Roxanne de Vos

Field assistants assisting with the authorised activities working under the direct supervision of the authorisation holder or suitably qualified and experienced named additional authorised person.

CONDITIONS

1. The written authorisation of the person in possession or occupation of the land accessed and upon which threatened fauna is taken or disturbed must:
 - a) state location details (including lot or location number, street/road, suburb and local government authority);
 - b) state land owner or occupier name, and contact phone number;
 - c) specify the time period that the authorisation is valid for;
 - d) be signed and dated; and
 - e) be attached to this Authorisation to take or disturb threatened species at all times.
2. This Authorisation to take or disturb threatened species, and any other written authorisation or lawful authority which authorises the take or disturbance of fauna on specified locations for the authorised activities must be carried at all times while conducting authorised activities and be produced on demand by a wildlife officer.
3. Additional authorised persons who are not suitably qualified and experienced in the authorised activities, and field assistants assisting with the authorised activities, must be working under direct supervision of experienced and competent named authorised persons.
4. Any inadvertently captured species of non-target threatened fauna or non-threatened fauna (threatened fauna as defined in *Biodiversity Conservation Act 2016* Section 19) is to be released immediately at the point of capture. Details of such fauna must be included in the fauna taking/disturbance return as required under this authorisation.
5. The authorisation holder, unless specified in the authorised activities, must not:
 - a) release any threatened fauna in any area where it does not naturally occur;
 - b) transfer threatened fauna to any other person or authority (other than the Western Australian Museum) unless the fauna is injured or abandoned fauna (condition 6); or

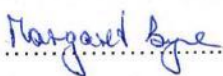
- c) dispose of the remains of threatened fauna in any manner likely to confuse the natural or present-day distribution of the species.
6. All threatened fauna injuries, unexpected deaths, unplanned euthanasia, and abandoned young or eggs, must be reported by the authorisation holder to the DBCA Wildlife Protection Branch, Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) to notify of the incident and for advice on treatment or disposal. All deceased threatened fauna must be offered to the Western Australian Museum.
7. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this authorisation must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
8. To prevent any unnecessary collecting in this State, all specimens and material taken and retained under this authorisation, that remain at the conclusion of the activities, must be offered to the Western Australian Museum for loan, for inclusion in its collection, or made available to other persons involved in relevant scientific studies if so required.
9. The authorisation holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" of all fauna taking/disturbance activities as they occur.
10. A DBCA approved "Return of Fauna Taken/Disturbed" must be completed in full (including nil taking/disturbance details) and submitted to DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) prior to the end of the authorisation duration and, if the authorisation duration is greater than 12 months, prior to the end of each annual period of the authorisation (from the date signed by the Minister's delegate) (refer to "Additional Information" section below). Where a licence to take or disturb fauna is issued in conjunction with this Authorisation to take or disturb threatened species, a combined "Return of Fauna Taken/Disturbed" may be completed and submitted.
11. A written report detailing the undertaken authorised activities, outcome, unintended incidents, injuries and mortalities of threatened fauna, implemented monitoring, mitigation and management, and explaining the records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" must be submitted, in addition to a "Return of Fauna Taken/Disturbed" to DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au).

ADDITIONAL INFORMATION

1. Before undertaking the Authorised Activity, permission must be obtained from: (a) the owner or occupier of private land; or (b) the Department or Authority controlling Crown land, on which the Threatened Fauna occur. This includes obtaining the written endorsement from Department of Biodiversity, Conservation and Attractions (DBCA) if the authorised activity is proposed for land managed by DBCA.
2. This Authorisation to take or disturb threatened species does not constitute lawful authority issued under regulations 4 and 8 of the *Conservation and Land Management Regulations 2002*. Contact the applicable Department District Officer for further information.
3. The approved DBCA "Return of Fauna Taken/Disturbed" template can be obtained from DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au).
4. Any interaction involving nationally listed threatened fauna that may be harmful to the fauna and/or invasive may require approval from the Commonwealth Department of the Environment

and Energy (<http://www.environment.gov.au/biodiversity/threatened/permits>). Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and *Environment Protection and Biodiversity Conservation Regulations 2000*.

5. It is the responsibility of the authorisation holder to ensure that they comply with the requirements of all applicable legislation.
6. An Authorisation to take or disturb threatened species does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, *Animal Welfare (Scientific Purposes) Regulations 2003*. Enquiries relating to the Animal Welfare Act scientific purposes licence and animal ethics committee approvals are to be directed to the Western Australian Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).

.....


Dr Margaret Byrne

Executive Director of Biodiversity and Conservation Science

AS DELEGATE OF THE MINISTER

DATE: 4 / 11...../2021

Appendix 3

LiDAR Imagery and Mapping Capture





Lidar Imagery and Mapping Capture

REPORT OF SURVEY | Western Australia

200000 – Report of Survey Rev 0 | 22 November 2021

Final

Biota Environmental Services



Document Control

Document Information

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Client Information

Client	Biota Environmental Services
Client Address	Level 1, 228 Carr Place, Leederville, 6007 WA Australia
Client Contact	Daniel Kamien

Revision History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
0	22 Nov 2021	Final	Issued for Use	BM	CG	CG

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Abbreviations

ATC	Air Traffic Control
CM	Central Meridian
DEM	Digital Elevation Model
GNSS	Global Navigation Satellite System
GRS80	Geodetic Reference System 1980
IMU	Inertial Measurement Unit
KGNS	Kinematic Global Navigation Satellite System
LiDAR	Light Detection and Ranging
POS AV	Position Orientation System Airborne Vehicles
PPK	Post Processed Kinematic
PPP	Precise Point Positioning
QC	Quality Control
UTM	Universal Transverse Mercator
WGS84	World Geodetic System 1984

1. Introduction

1.1 Objective

Biota required Fugro Australia Land (Fugro) to plan, collect and supply Aerial Photography and digital terrain modelling over the Mount Gibson Mine area in Western Australia to assist with their Mallee Fowl Mound and other fauna investigations.

The Riegl VQ-1560i Lidar and PhaseOne Imagery were to be captured at 16 points per square metre and 5.5 cm RGB respectively over the area.

All sensor calibration, LiDAR data collection, data processing, quality control and final product elaboration activities were undertaken by the Fugro team.

1.2 Survey Area and Strategy

Malle Fowl nest are required to be located within the red areas. 3 band RGB imagery is required over the black area. Figure 1.1 below shows these areas:

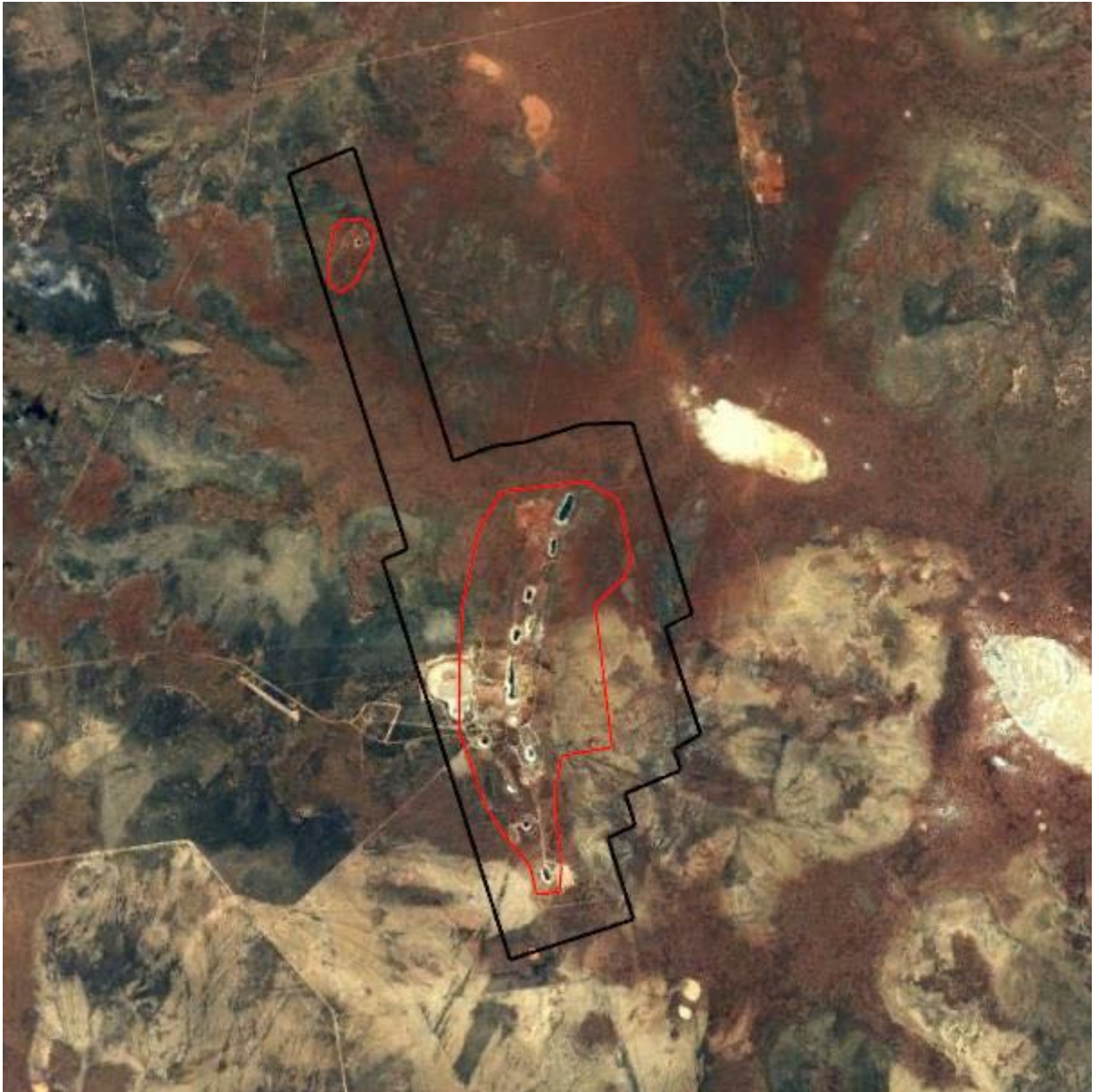


Figure 1.1: Survey Area Extent

The project team consisted of a partnership between two main entities:

1. Fugro, who:
 - a. Were the contract holder.
 - b. Provided project management, reporting and communication.
 - c. Organise and collect ground control and verify Lidar and Imagery against it.
 - d. Performed the system installation, calibration, planning, data collection and processing using the Riegl VQ-1560i sensor.
 - e. Performed the data processing and QC of the Riegl VQ-1560i datasets.
 - f. Created the final digital deliverables
 - g. Prepared this Report of Survey detailing the results of the project.
2. InterAir, who:

- a. Provided the survey aircraft Piper PA-31 Navajo tail number VH-FHJ with Certificate of Airworthiness.
- b. Assisted Fugro during systems installations.
- c. Provided pilots.
- d. Provided aircraft maintenance.

1.3 Project Specifications / Standards

The project specifications for the data acquisition and delivery are outlined in Table 1.1.

Table 1.1: Project Requirements

Spatial Accuracy	Vt:	$\leq \pm 10\text{cm}$
	Hz:	$\leq \pm 30\text{cm}$ (this is as overall surface not single point)
Geodesy / Datum	Horizontal:	GDA94 Zone MGA94 Z50
	Vertical:	AHD derived from Ausgeoid09 GRS80 ellipsoid
Camera (GSD)	Pixel size	5.5cm RGB mosaic minimum
Lidar Density (ppsm)	ppm	16

2. Survey Planning and Operations

2.1 System Installation, Calibration and Verification

The system was calibrated in Geraldton on 19 September 2021. The Calibration certificate is attached in provided with the data package.

2.2 Field Deployment and Planning

The data was planned to be collected in a gap in an ongoing project.

2.2.1 Personnel

The following personnel in Table 2.1 were involved in the data collection and processing.

Table 2.1: Operational Team Composition

Name	Project Role	Company
Cristian Gordini	Service Line Manager	Fugro
Bronwyn McAllister	Project Manager Work Packages 1 2 3 4 7	Fugro
Nic Bailey	Operations Manager Work Packages 4 5	Fugro
Patrick Hipworth	QHSSE Manager (Projects)	Fugro
Qifan Qu	Production Supervisor	Fugro
Mark Rasheed	Laser Safety Supervisor	Fugro
Tom Cress	Global Aviation Risk Manager	Fugro
Klevis Hoxalli	Pilot	InterAir
Pai Kang	Airborne Sensor Operator	InterAir

3. Technical Project Execution

3.1 Equipment

3.1.1 Aircraft

The Riegl VQ-1560i system was installed in a Piper PA-31 Navajo aircraft operated by InterAir shown in Figure 3.1. The Piper PA-31 Navajo has a transit speed of 160 knots at altitudes limited to unpressurised condition 10,000 feet and an endurance of up to four and half hours. Survey operations were conducted at 640 metres feet and 155 knots.



Figure 3.1: InterAir Piper PA-31 Navajo

3.1.2 Riegl VQ-1560i LiDAR Surveying System

The Riegl VQ-1560i system uses a laser on a fixed platform, which operates at 1000 kHz per channel. The scan rate line per second was 147 a field of view of 58.52 degrees and average point distance of 0.2m. the Multiple time Around zone was the between 2 and 3 with a zone width of 375m.



Figure 3.2: Riegl VQ-1560i System Inside the Aircraft

Table 3.1 Riegl VQ-1560 Equipment

System	Description	Manufacturer
ALB	Riegl VQ-1560i (Serial Number S2223067)	Fugro
Positioning	POS AV v6 510 - PCS 82	Applanix
IMU	imu80	Trimble

3.1.3 Flight Parameters

Prior to collection, the Lidar system was showing an error on one channel. Data was still able to be collected with only one channel, but would require re-flight planning to increase the overlap by decreasing the line spacing. The parameters for the flight shown are shown below in Table 3.2.

During the flight, both channels operated without error, so the data captured is more dense than required.

Table 3.2 Flight parameters

Flight Plan Name	Number of Flightlines	Total Flight Line Length	Estimated On Task Duration (hh:mm)
BOAMGS_2500ft_155kts_YGEL	18	183km	4:20

The revised flight plan is shown below in Figure 3.3

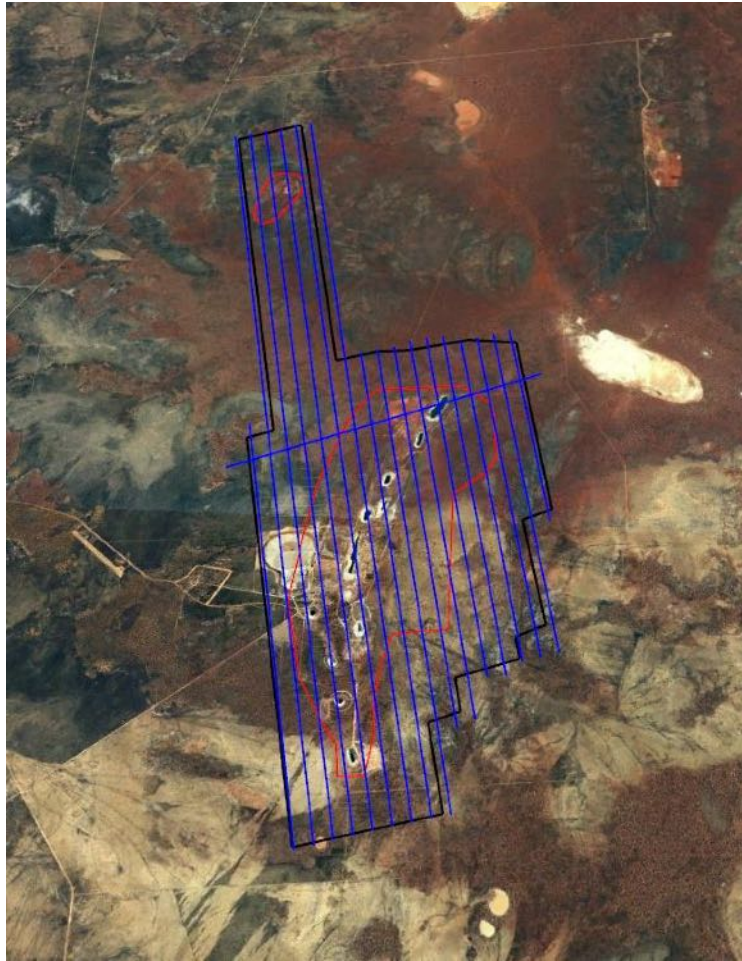


Figure 3.3: Revised Flightlines

3.1.4 Positioning System

Throughout the survey, the real-time position of the Riegl VQ-1560i was derived from a Trimble BD series GNSS receiver.

L1/L2 carrier phase PPK GNSS positions from the Trimble GD982 (POS AV) multi-frequency GNSS receivers on the aircraft were calculated using PosPac and the nearest CORS reference stations. These positions were imported into the Ground System (GS) and RiProcess software and applied to all soundings.

3.2 Data Processing Methodology

The following data processing steps were undertaken;

- Acquisition as per requirements see table above
- Field data QA for integrity and completeness
- Downloading raw data
- QA Raw data
- GNSS-IMU Coupled Solution
- Riprocess processing
- Geodetic Validation Flight Line matching / Aero-triangulation

- Ground Filter
- Lidar data Classification
- Product Generation Lidar Derivates and orthoimagery and feature mapping and location of mallee fowl nests
- QA of data
- Delivery of Data and reports

3.2.1 Processing Software

All software used had been upgraded and tested extensively for suitability before data processing started. No software updates occurred during the survey.

Table 3.3: Data Processing Software

Software Name	Version	Main Functions
QGIS and Riegl	1.8.0	GIS software used to create subareas and flight lines during survey planning
Pospac MMS 8	8	Post processing of the aircraft trajectory using closest CORS station
RiPROCESS	1.8.6	RIEGL VQ-820-G raw data processing, visualisation and export to digital format
SDFCopy	1.4	Transfer data from the DR680 drive. Part of the RiPROCESS suite
POFImport	1.7.4	Convert trajectory files from text to POF. Part of the RiPROCESS suite
SDCImport	3.0	Extract raw soundings. Part of the RiPROCESS suite
GeoSysManager	2.0.8	Contains the library of Coordinates Reference Systems. Part of the RiPROCESS suite
RiWORLD	5.1.4	Georeference the RIEGL VQ-820-G soundings. Part of the RiPROCESS suite
TerraSolid (application running through Bentley MicroStation)	019.001	Flight line matching and LiDAR point cloud visualisation and classification
Trimble Inpho® office software	9	Used to precisely transform aerial images into consistent and accurate orthophoto mosaics
LasTools	190507	Generation of QC visuals and deliverables
Global Mapper	20.0	Visualisation of digital data and coverage plots. Generation of deliverables
ArcMap	10.7	Rendering of coverage plots and contours Generation of deliverables
Office suite	1902	Reporting and progress tracking
Beyond Compare	4.2.3	Data management

3.3 Vertical Datum

All soundings for the initial data collection have been reduced directly to the GRS80 ellipsoid datum.

3.4 Horizontal Datum

The horizontal datum used was the GDA1994 with coordinate projected in MGA zone

3.5 Flight Line Matching and Adjustments

Navigation data was processed using differential GNSS (GPS+Glonass) solution using tightly coupled GNSS-IMU processing. Fixing of the ITRF2014 Datum was done using the closest CORS station. Base station coordinates were calculated using AUSpos online processing software.

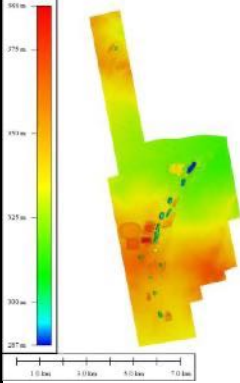
The raw Laser data was geo-referenced in ITRF2014 using the GNSS-IMU solution and the latest Laser calibration file for the system VQ-1560i flown prior the survey. The georeferenced data was processed in 1km tiles and converted to GDA94 MGA50S ellipsoidal height. Data was QA/QC for coverage, cloud and noise.

4. Deliverables

A description of all data provided for the project is provided in Table 4.1.

Table 4.1: Project Deliverables

Deliverable	Required Deliverable	Format
Project Execution Plan		
Deliverable 1	Project Execution Plan	PDF
Classified Point Cloud		
Deliverable 2	500m x 500m tiles	Las 1.3
Imagery		
Deliverable 3	Orthomosaic in 500m tiles, 5.5cm resolution	Geotiff and ECW
Metadata and Reports		
Deliverable 4	Metadata Report	PDF
Deliverable 5	Polygon data outlining mounds	SHP
Deliverable 6	Map outlining mounds on image background	PDF
Deliverable 7	Lidar scanning equipment calibration report	PDF
Deliverable 8	Survey report that includes Post Survey Spatial Accuracy Report and project report	PDF

Metadata Summary	FUGRO AUSTRALIA LAND PTY LTD - METADATA REPORT
Record ID	Record
Metadata Filename	SiotaMt_Gibson_Mallee_Fowl_Mounds_metadata
Metadata Language	English
Metadata Character Set	ASCII(utf8)
Metadata File Parent Identifier	N/A
Metadata Point of Contact	Bronwyn McAllister Fugro Australia Land Pty Ltd 1060 Hay Street West Perth, WA 6003 ph (08) 9218 2000 b.mcallister@fugro.com
Metadata Date Stamp	2021/10/29
Dataset Title	200000-SiotaMt_Gibson_Mallee_Fowl_Mounds
Dataset Reference Date	10/10/2021
Dataset Description Abstract - Deliverables	Fugro was contracted by Siota Mount Gibson to provide: - 1m Digital Elevation Model (DEM) in GeoTiff Overall - 500m classified point cloud in LAS - 0.055m Orthoimagery RGB in ECW file overall - Metadata report and metadata shape files (flightline, flightswath, boundary, hillshade image and tile index) Data in formats as described below in this report. Products are both in GDA94 MGA50
Dataset Language	English
Dataset Character Set	Mosaic/Seamline/boundary/File Index/LAS/DEM
Dataset Topic Category	Ortho Data/Lidar Data
Geographic Location Description	Mount Gibson WA
Geographic Overview DEM	
Geographic Overview Imagery	
Geographic Bounding Box	WEST LONGITUDE = 117° 08' 11.0325" E NORTH LATITUDE = 29° 39' 15.4610" S EAST LONGITUDE = 117° 12' 12.4395" E SOUTH LATITUDE = 29° 47' 45.1077" S
Acquisition Start Date	10/10/2021
Acquisition End Date	10/10/2021
Sensor Type Name	Riegl/Phasel
Sensor/Lens serial ID	VQ-15601/IXM-RS150F
Sensor Focal Length (mm)	51.643
Nominal Flying Height (m AGL)	720
INS / IMU Used	Yes
Number of Runs	18
Flight Direction	Various
Side Overlap (%)	60%
Output Data Format	ECW, SHP, PDF, LAS, GeoTiff
Horizontal Datum	GDA94 MGA50
Vertical Datum	AMD derived from Ausgeoid09
Map Projection	MGA50
Surface Type	Nature
Surface Creation Method	Lidar
Nominal Spatial Accuracy (Hz) (m)	0.5
Nominal Spatial Accuracy (Vt) (m)	0.1-0.15
Data Tile size (km²)	0.3025/0.25
Orthoimage Pixel size (cm)	5.5
Number of control points	NA
Process Lineage for OrthoMosaic	1)Data download from field 2)Georeferencing imagery for photogrammetric projects with using the precise flight trajectory from GNSS-IMU post-processing; 3)Automatic measurement of tie points between the images and combined block adjustment; 4)Classify the autocorrelated point cloud and extract the ground point; 5)Generate the Ortho images in OrthoMaster; 6)Adjusting color balance and generating the mosaic in Inpho's Orthovista software; 7)Accuracy and Color sample confirming; 8)processing the mosaic in SeamEditor and Adobe Photoshop software. 9)QC the the mosaic data after producing; 10)Output product in MGA projection; 11)QA the finished product; 12)Delivery the product.
Description of Geodetic Validation Process used and Residual Results	Positioning Navigation data is processed using differential GNSS (GPS+Glonass) solution using tightly coupled GNSS-IMU processing. Fixing the ITRF2014 Datum using the Base station BBNV. Base station coordinates are calculated using AUSpos online processing software. Georeferencing Raw Laser Data Laser raw data is geo-referenced in ITRF2014 using the GNSS-IMU solution and the latest Laser calibration file for the system Q1560 flown prior the survey. QA/QC Laser Data Raw data is processed in 0.5km tiles and converted to GDA94 MGA50 ellipsoidal height. Data is QA/QC for coverage, cloud and noise. Geoid Ausgeoid09_v1.01 was used to convert ellipsoidal data. The Geoid is converted to 1500 m grid for the N value. Dz No GCPs supplied, so no dz shift applied.
Description of Aerotriangulation Validation Process used and Residual Results	Combined project aerotriangulation from aerial GNSS derived imagery positions and process AT without GCP. Automatic measurement of tie points between the images and combined block adjustment.
Limitations of Data	Data not only meets the specifications but the density and accuracy are better than required.

Appendix 4

Desktop Results – Significant Vertebrate Species



Class/Family /Species	Common Name	Conservation Status		Mt Gibson Fauna (this report)	NatureMap	EPBC	ALA	ATA Fauna Assessment 2015	ATA Malleefowl 2015	Biologic 2014 Mt Gibson Malleefowl	Ecologia 2014	Mount Gibson Terrestrial Ecosystems 2014	Mount Gibson Mining Malleefowl monitoring 2010	Terrestrial Ecosystems 2012	Phoenix Level 2 2012	EnviroWorks 2012	Bamford 2013	EnviroWorks 2013	AWC reserve blog
		State	Commonwealth																
REPTILES																			
Scincidae																			
Cyclodomorphus branchialis	Gilled Slender Blue-tongue	VU					X												
Egernia stokesii badia	Western Spiny-tailed Skink	VU	EN		X	X					X	X							
MAMMALS																			
Vespertilionidae																			
Nyctophilus major tor	Central Long-eared Bat	P3		X	X	X	X												
BIRDS																			
Megapodiidae																			
Leipoa ocellata	Malleefowl	VU	VU	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Rostratulidae																			
Rostratula australis	Australian Painted-snipe	EN	EN			X													
Charadriidae																			
Thinornis cucullatus	Hooded Dotterel				X														
Laridae																			
Gelochelidon nilotica	Gull-billed Tern	MI	MI		X														
Scolopacidae																			
Calidris ferruginea	Curlew Sandpiper	CR; MI	CR; MI			X	X												
Actitis hypoleucos	Common Sandpiper	MI	MI				X												
Calidris ruficollis	Red-necked Stint	MI	MI		X														
Falconidae																			
Falco hypoleucos	Grey Falcon	VU	VU			X													
Falco peregrinus	Peregrine Falcon	OS		X	X		X				X	X							
Psittaculidae																			
Platycercus icterotis xanthogenys	Western Rosella	P4					X												
Pezoporus occidentalis	Night Parrot	CR	EN			X													

Appendix 5

Likelihood of Significant Species Occurrence



Species Name	Common Name	Conservation Status		Preferred Habitat	Habitat Available in Study Area	Occurrence in Locality	Likelihood of Occurrence (Prior to Survey)	Likelihood of Occurrence (Post Survey)
		State	Commonwealth					
Herpetofauna								
<i>Egernia stokesii badia</i>	Western Spiny-tailed Skink	Vulnerable	Endangered	Fallen and hollow log piles, York Gum, Gimlet and Salmon Gum woodlands.	✓	Nearest record located approximately 13 km N of the study area.	Likely to occur	Likely to occur
<i>Cyclodomorphus branchialis</i>	Common Slender Blue-tongue	Vulnerable	–	Mallee or spinifex communities, vegetation clumps, fallen timber and leaf litter.	✓	Nearest record located approximately 32 km NE of the study area.	May occur	May occur
Avifauna								
<i>Calidris ferruginea</i>	Curlew Sandpiper	Critically Endangered, Migratory	Critically Endangered, Migratory	Beaches and inland mudflats and lakes.	X	Nearest record located approximately 28 km SW of the study area in the vicinity of Jibberding salt lakes.	Unlikely to occur	Unlikely to occur
<i>Pezoporus occidentalis</i>	Night Parrot	Critically Endangered	Endangered	Arid or semi-arid spinifex grasslands with large, established, and unburnt hummocks. Foraging habitat includes areas of samphire, bluebush, and saltbush.	X	No records from the locality.	Would not occur	Would not occur
<i>Rostratula australis</i>	Australian Painted-snipe	Endangered	Endangered	Shallow, brackish, or freshwater terrestrial wetlands.	X	No records from the locality.	Would not occur	Would not occur
<i>Leipoa ocellata</i>	Malleefowl	Vulnerable	Vulnerable	Dry inland scrub and mallee; occasionally in adjacent eucalypt woodland.	✓	Tracks recorded within the study area during the recent survey. Individual recorded ~1.5 km north of the main project area. Closest previous record located approximately 2 km W of the minor project area. Multiple records within the locality, predominantly to the north.	Likely to occur	Recorded
<i>Falco hypoleucos</i>	Grey Falcon	Vulnerable	Vulnerable	Wide range of habitats in the arid zone but appears to be least rare in lightly wooded coastal and riverine plains	✓	No records from the locality.	Unlikely to occur	Unlikely to occur
<i>Falco peregrinus</i>	Peregrine Falcon	Specially Protected	–	Wide range of habitats including forest, woodlands, wetlands, and open country.	✓	Recorded within the minor project area during the survey. Closest other records located approximately 12 km N of the study area.	Likely to occur	Recorded
<i>Actitis hypoleucos</i>	Common Sandpiper	Migratory	Migratory	Fresh and salt marshes, lakes, streams, sheltered coasts.	X	Recorded approximately 35 km N and 35 km SW of the study area, at a pastoral homestead and in the vicinity of Jibberding salt lakes, respectively.	Unlikely to occur	Unlikely to occur
<i>Gelochelidon nilotica</i>	Gull-billed Tern	Migratory	Migratory	Coastal seas, tidal flats, shallow lakes, and fields	X	Recorded in 1999, approximately 35 km SW of study area, and in the vicinity of Jibberding salt lakes.	Unlikely to occur	Unlikely to occur
<i>Calidris ruficollis</i>	Red-necked Stint	Migratory	Migratory	Predominantly coastal, in sheltered inlets, bays, lagoons, estuaries, intertidal mudflats and protected shores. May also frequent wetlands, including salt flats.	X	Recorded in 1999, approximately 35 km SW of study area, and in the vicinity of Jibberding salt lakes.	Unlikely to occur	Unlikely to occur
<i>Thinornis cucullatus</i>	Hooded Dotterel	Priority 4	–	Ocean beaches and inland salt lakes	X	Recorded on four occasions within 35 km of study area, predominantly in vicinity of salt lakes.	Unlikely to occur	Unlikely to occur
<i>Platycercus icterotis xanthogenys</i>	Western Rosella	Priority 4	–	Open eucalypt forest and timbered areas.	✓	Nearest record located approximately 33 km S of the study area.	May occur	May occur
Mammals								
<i>Nyctophilus major tor</i>	Central Long-eared Bat	Priority 3	–	Eucalypt woodlands, savanna woodland, mallee, spinifex grasslands.	✓	Recorded approximately 22 km SW of study area. Recorded during the survey.	May occur	Recorded
Invertebrates								
<i>Idiosoma kopejtkaorum</i>	Lake Goorly Shield-Backed Trapdoor Spider	Endangered	–	Eucalypt woodland.	✓	Recorded within 5 km of the study area. Recorded during the survey.	Likely to Occur	Recorded
<i>Idiosoma formosum</i>	Ornate Shield-backed Trapdoor Spider	Endangered	–	Eucalypt woodland.	✓	Nearest record located approximately 5 km NE of the study area.	Likely to occur	Likely to occur
<i>Aganippe castellum</i>	Tree Stem Trapdoor Spider	Priority 4	–	Flood-prone depressions and flats that support myrtaceous shrub communities	✓	Nearest record located approximately 3 km N of the study area.	Likely to occur	Likely to occur

Appendix 6

Malleefowl Mound Search Results



Record ID	Status	Date	Easting (mE)	Northing (mN)	Habitat	Study Area Location
MGN01	Not a mound	10/11/21	515873	6710280	Mixed shrubland	Inside
MGN02	Not a mound	10/11/21	516248	6712593	Eucalypt woodland	Outside
MGN03	Not a mound	11/11/21	516759	6707717	Mixed shrubland	Inside
MGN04	Not a mound	3/12/21	519061	6713450	Eucalypt woodland	Outside
MGN05	Not a mound	30/11/21	516991	6709119	Mixed shrubland	Inside
MGT01	Defunct mound	8/11/21	514786	6715912	Mixed shrubland	Outside
MGT02	Defunct mound	10/11/21	515798	6708369	Mixed shrubland	Inside
MGT03	Defunct mound	10/11/21	514711	6707444	Mixed shrubland	Outside
MGT04	Defunct mound	11/11/21	516936	6707916	Mixed shrubland	Inside
MGT05	Defunct mound	11/11/21	519096	6709126	Eucalypt woodland	Outside
MGT06	Defunct mound	11/11/21	517143	6708208	Mixed shrubland	Inside
MGT07	Defunct mound	11/11/21	516776	6707730	Mixed shrubland	Inside
MGT08	Defunct mound	11/11/21	516814	6708278	Mixed shrubland	Inside
MGT09	Defunct mound	11/11/21	513805	6718296	Eucalypt woodland	Outside
MGT10	Defunct mound	30/11/21	517019	6709096	Mixed shrubland	Inside
MGT11	Defunct mound	1/12/21	517410	6709734	Mixed shrubland	Inside
MGT12	Defunct mound	2/12/21	514068	6716198	Mixed shrubland	Outside
MGTopp1	Individual	10/11/21	517770	6715875	Mixed shrubland	Outside
MGTopp2	Tracks	11/11/21	514110	6718054	Mixed shrubland	Inside
MGTopp3*	Tracks	30/9/21	515464	6710144	Mixed shrubland	Inside

*Record obtained by Tetris Environmental.

Appendix 7

Helix Molecular Report





Molecular Phylogenetic relationships of the Mt Gibson Mygalomorphae spiders

Prepared for Biota Environmental Sciences

March 2022



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Molecular phylogenetic relationships of the mygalomorphae spiders from Mt Gibson

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1.0 Executive Summary

Capricorn Metals Ltd (Capricorn) has recently acquired the Mount Gibson Gold Project, located in the Midwest region of Western Australia, approximately 50 km north-east of Wubin and 70 km south-west of Paynes Find. The Mount Gibson Gold Project has been in care and maintenance for over a decade and Capricorn plans to recommence mining. To this end, pit expansion areas, a tailings storage facility and waste rock dump areas have been nominally designated (the nominal disturbance areas).

Biota Environmental Sciences have conducted a single-phase targeted SRE fauna survey in accordance with relevant State policy (EPA, 2016). The resulting mygalomorphae spider specimens have been lodged with Helix Molecular Solutions to perform the appropriate molecular investigations and analyses of the resulting molecular data in order to determine the phylogenetic relationships amongst the specimens, in particular providing a synopsis of the relationships between all specimens, including the suspected number of species, and their apparent distributions, based on available sequence data currently available for comparison from the Helix database and GenBank.

For the purposes of this proposal, the 'survey area' is defined by the 1,210 ha main area (excluding existing pits) and the 90 ha minor area which were provided by Tetris Environmental, and then subsequently by Biota Environmental Sciences. The 'study area' encompasses a 40 km buffer from an approximate central point from the main survey area.

2.0 Background and Objective

Forty-nine specimens of mygalomorph spider fauna assigned to five family groups based on morphology (Anamidae, Barychelidae, Eugaridae, Idiopidae, Halanoproctidae), from fifteen sites, from the Mt Gibson survey area were sequenced for variation at the COI mitochondrial gene. The resulting 45 successful molecular sequences were then assessed for variation amongst each family to determine the number of taxa present and compare results to previously sequenced specimens obtained during previous surveys that have been undertaken elsewhere in the Pilbara (Helix database), and sequences publically available on GenBank for context.

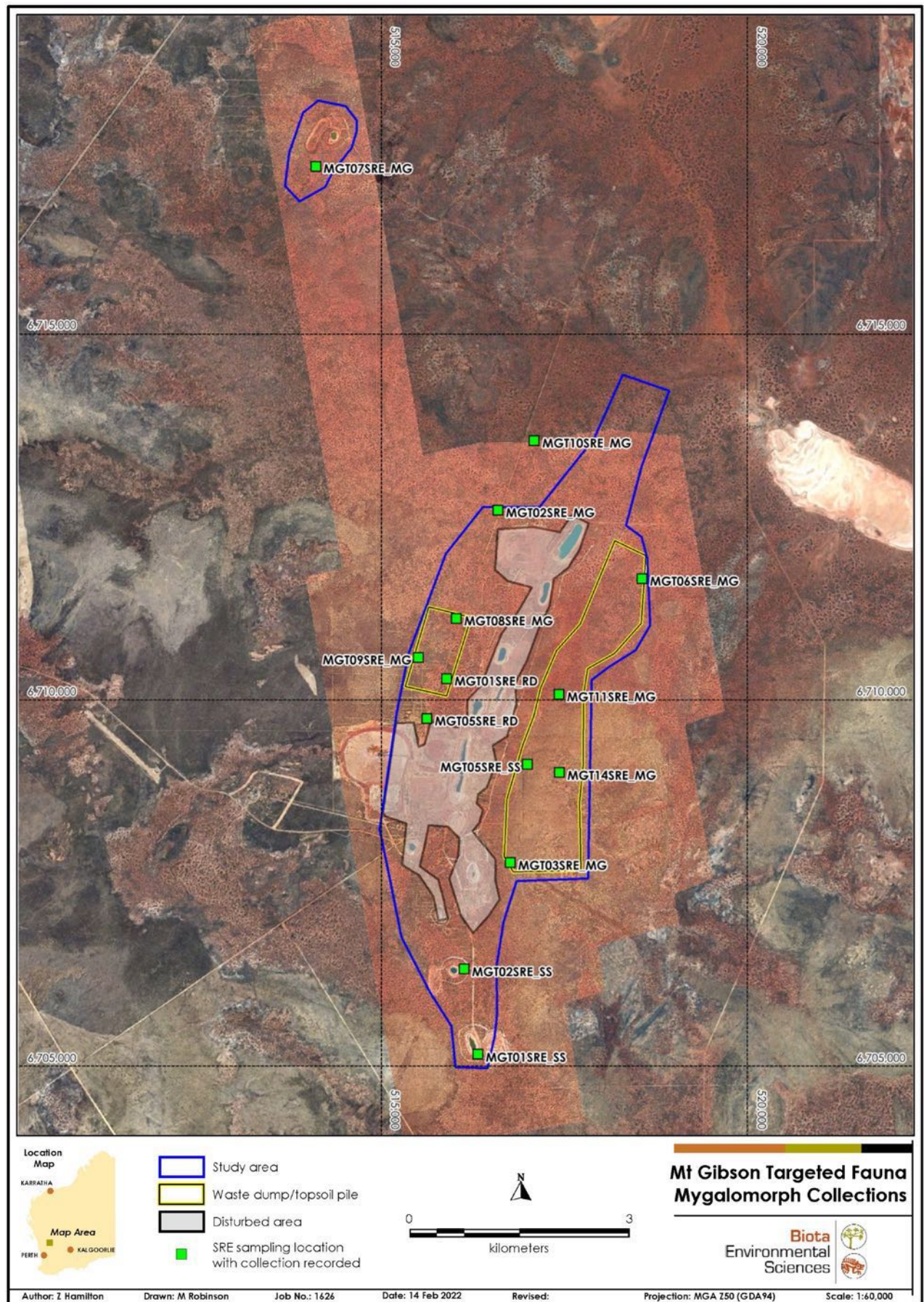


Figure 1: Collection localities for Mygalomorphae spider invertebrate fauna at Mt Gibson

Table 1: Mygalomorphae spider specimens used in the present study (n=49), and the genetic lineage/species to which they were assigned. Species in bold text and demarcated with ‘*’ represent previously undetected species. Shaded cells represent samples that failed to sequence.

Morphological Family ID	Site	Specimen ID	Helix ID	Latitude	Longitude	Molecular Species ID
Anamidae	MGT01SRE_RD	M20211110.MGT01SRE_RD-02	RB01	-29.7374829	117.1645885	H-N157*
Anamidae	MGT01SRE_RD	M20211110.MGT01SRE_MG-03	RB02	-29.7379002	117.1628305	H-N154 / MYG364
Anamidae	MGT02SRE_MG	M20211110.MGT02SRE_MG-01	RB03	-29.71663161	117.1715751	H-N154 / MYG364
Anamidae	MGT02SRE_MG	M20211110.MGT02SRE_RD-02	RB04	-29.7164565	117.1704487	H-N157*
Anamidae	MGT03SRE_MG	M20211111.MGT03SRE_RD-02	RB05	-29.76004558	117.1732467	H-N157*
Anamidae	MGT05SRE_RD	M20211111.MGT05SRE_RD-01	RB06	-29.7403818	117.1616193	H-N156*
Anamidae	MGT01SRE_SS	M20211130.MGT01SRE_SS-01	RB07	-29.7839771	117.1692001	H-N157*
Anamidae	MGT01SRE_SS	M20211130.MGT01SRE_SS-01_MG-01	RB08	-29.78381804	117.1688032	H-N156*
Anamidae	MGT02SRE_SS	M20211130.MGT02SRE_SS-02	RB09	-29.77342957	117.1668166	H-N154 / MYG364
Anamidae	MGT02SRE_SS	M20211130.MGT02SRE_SS-03	RB10	-29.77367627	117.1671753	H-N157*
Anamidae	MGT05SRE_SS	M20211130.MGT05SRE_SS-03	RB11	-29.74896202	117.1751519	H-N156*
Anamidae	MGT10SRE_MG	M20211130.MGT10SRE_MG-01	RB12	-29.70812256	117.1766451	H-N84
Anamidae	MGT10SRE_MG	M20211130.MGT10SRE_MG-02	RB13	-29.70823131	117.1765566	H-N154 / MYG364
Anamidae	MGT10SRE_MG	M20211130.MGT10SRE_MG-04	RB14	-29.70829273	117.1766289	H-N157*
Anamidae	MGT10SRE_MG	M20211130.MGT10SRE_MG-05	RB15	-29.70850721	117.175925	H-N84
Anamidae	MGT09SRE_MG	M20211202.MGT09SRE_MG-04	RB16	-29.73582096	117.1603804	H-N158*
Anamidae	MGT07SRE_MG	M20211202.MGT07SRE_MG-05	RB17	-29.67443192	117.1453879	H-N154 / MYG364
Anamidae	MGT07SRE_MG	M20211202.MGT07SRE_MG-02	RB18	-29.67451565	117.1452876	H-N154 / MYG364
Anamidae	MGT07SRE_MG	M20211202.MGT07SRE_MG-03	RB19	-29.67451565	117.1452876	H-N154 / MYG364
Anamidae	MGTMGTO8SRE_MG	M20211202.MGT08SRE_MG-01	RB20	-29.73000956	117.1663248	H-N157*
Anamidae	MGTMGTO8SRE_MG	M20211202.MGT08SRE_MG-02	RB21	-29.73009331	117.1660653	H-N154 / MYG364
Anamidae	MGT09SRE_MG	M20211202.MGT09SRE_MG-01	RB22	-29.7358356	117.1606569	H-N156*
Anamidae	MGT09SRE_MG	M20211202.MGT09SRE_MG-05	RB23	-29.73574272	117.1597639	H-N158*
Anamidae	MGT09SRE_MG	M20211202.MGT09SRE_MG-06	RB24	-29.73560457	117.1596344	H-N158*
Anamidae	MGT09SRE_MG	M20211202.MGT09SRE_MG-02	RB25	-29.73582955	117.1606889	H-N156*
Anamidae	MGT15SRE_MG	M20211202.MGT15SRE_MG-01	RB26	-29.71789128	117.1717771	<i>Aname / Kwonkan</i>

Morphological Family ID	Site	Specimen ID	Helix ID	Latitude	Longitude	Molecular Species ID
						H-N159*
Anamidae	MGT14SRE_MG	M20211203.MGT14SRE_MG-01	RB27	-29.74869714	117.1797364	H-N156*
Anamidae	MGT14SRE_MG	M20211203.MGT14SRE_MG-02	RB28	-29.74877064	117.1797851	H-N156*
Anamidae	MGT14SRE_MG	M20211203.MGT14SRE_MG-03	RB29	-29.74879618	117.1804887	H-N156*
Anamidae	MGT14SRE_MG	M20211203.MGT14SRE_MG-04	RB30	-29.7487459	117.1805024	<i>Aname / Kwonkan</i> H-N160*
Anamidae	MGT07SRE_MG	M20211202.MGT07SRE_MG-04	RB31	-29.67447258	117.1455205	H-N155*
Barychelidae	MGT01SRE_RD	M20211110.MGT01SRE_RD-01	RB32	-29.7375154	117.1646151	
Barychelidae	MGT02SRE_SS	M20211130.MGT02SRE_SS-04	RB33	-29.77284089	117.1677418	<i>Idiommatata</i> sp. H-B51*
Barychelidae	MGT11SRE_MG	M20211201.MGT11SRE_MG-01	RB34	-29.7393863	117.1801799	
Barychelidae	MGT07SRE_MG	M20211202.MGT07SRE_MG-07	RB35	-29.67436049	117.1458158	<i>Aureocrypta</i> sp. H-B50*
Euagridae	MGT01SRE_SS	M20211130.MGT01SRE_SS-02	RB36	-29.78398128	117.1689996	Euagridae H-EB_E02*
Euagridae	MGT01SRE_SS	M20211130.MGT01SRE_SS-03	RB37	-29.78397613	117.168963	
Euagridae	MGT05SRE_SS	M20211130.MGT05SRE_SS-02	RB38	-29.74814055	117.1753777	Euagridae H-EC_E04*
Euagridae	MGT10SRE_MG	M20211130.MGT10SRE_MG-06	RB39	-29.70854732	117.1764051	Euagridae H-EB_E03*
Euagridae	MGT06SRE_MG	M20211201.MGT06SRE_MG-01	RB40	-29.7251143	117.1919043	Euagridae H-EB_E02*
Euagridae	MGT07SRE_MG	M20211202.MGT07SRE_MG-01	RB41	-29.67431115	117.1457543	
Euagridae	MGT09SRE_MG	M20211202.MGT09SRE_MG-03	RB42	-29.73584677	117.1604539	Euagridae H-EB_E03*
Idiopidae	MGT02SRE_MG	M20211110.MGT02SRE_RD-03	RB43	-29.71654938	117.1704011	<i>Idiosoma kopejkaorum</i>
Idiopidae	MGT02SRE_MG	M20211110.MGT02SRE_RD-04	RB44	-29.71656793	117.1703859	<i>Idiosoma kopejkaorum</i>
Idiopidae	MGT03SRE_MG	M20211111.MGT03SRE_RD-01	RB45	-29.76012541	117.1733552	<i>Idiosoma</i> sp. MYG22
Idiopidae	MGT01SRE_SS	M20211130.MGT01SRE_SSMG-02	RB46	-29.7839543	117.1688298	<i>Idiosoma kopejkaorum</i>
Idiopidae	MGT10SRE_MG	M20211130.MGT10SRE_MG-03	RB47	-29.70832657	117.1766667	<i>Idiosoma kopejkaorum</i>
Idiopidae						<i>Conothele</i> sp. H3 / MYG550
Halanoproctidae	MGT05SRE_SS	M30211130.MGT05SRE_SS-01	RB48	-29.74815217	117.175141	
Anamidae	MGT02SRE_SS	M20211130.MGT02SRE_SS-01	RB49	-29.77346518	117.1671857	<i>Aname</i> sp. H157*

3.0 Methods

Forty-nine mygalomorph terrestrial spider specimens from Mt Gibson, comprising five family groups (Anamidae, Barychelidae, Euagridae, Idiopidae & Halanoproctidae) were collected from fifteen sampling locations (Table 1). The specimens were sequenced for variation at the cytochrome oxidase subunit I gene (COI) using primers LCOI & HCO2 (Folmer *et al.*, 1994). The resulting 45 successful COI sequences comprised 16 lineages belonging to five families.

The four specimens that were not successfully sequenced could not be assigned to known or unknown species. Sequence failure could be due to degradation of the DNA, primer mis-matches, or contamination by other DNA in the sample.

The COI sequences from the total forty-five successfully sequenced mygalomorph specimens were edited using Geneious version 6.1.8 software (<https://www.geneious.com>) performed within MEGA version 5.05 (Tamura *et al.*, 2011) using the built-in alignment tool using CLUSTAL W (Thompson *et al.*, 1994) using default parameters. DNA nucleotide sequences were translated into protein sequences to ensure that the amplified sequences corresponded to the target mtDNA. The translated protein sequences were then checked for the presence of stop codons, to ensure that pseudogenes hadn't been amplified. Pseudogenes have a DNA sequence that is similar to the functional gene (e.g. COI) however, they do not code for a functioning protein despite the shared ancestry with the functional gene. The presence of pseudogenes can complicate molecular analyses, producing odd results. DNA sequences were translated into proteins with ExPASy using the invertebrate genetic code. All sequences analysed were of high quality with no evidence of heterogeneous peaks. All resulting sequences were 'BLAST'ed (Basic Local Alignment Search Tool) with the NCBI (National Centre for Biotechnology Information). This program compares DNA nucleotide sequences with a library of sequences and identifies sequences within the database that resemble the query sequences above a certain threshold. Genetic distances between unique genetic sequences (haplotypes) were measured using uncorrected p-distances (total percentage of nucleotides different between sequences). To account for polymorphism within lineages, the net genetic diversity of Nei (1987) was calculated to give a 'corrected' distance between lineages.

For phylogenetic analysis, likelihood ratio tests using the Bayesian Information Criterion were calculated in MEGA 7.0 (Kumar *et al.*, 2016) to determine the best-fit model of evolution. The phylogenetic analyses were calculated in MEGA 7.0 (Kumar *et al.*, 2016) using maximum likelihood (ML) with 1000 bootstrap replicates, based on the genetic distances with the best-fit model of evolution calculated for each family.

For each family, the best model of evolution was determined in MEGA 7.0 (Kumar *et al.*, 2016), to be used to set the parameters in the phylogenetic analyses. Two distinct genera (*Aname* and *Kwonkan*) were identified within the family Anamidae, and separate models were determined for each genus. The best model for each group is depicted in Table 2.

Table 2: Best-fit model of evolution for each of the taxonomic groups and families analysed.
Abbreviations: GTR: General Time Reversible; HKY: Hasegawa-Kishino-Yano; TN93: Tamura-Nei; T92: Tamura 3 parameter; G: Gamma; I: Invariant sites.

Analysis Group	Family / Genus	Best Model	Gamma Value
Mygalomorphae	Anamidae / <i>Aname</i>	GTR + G + I	0.63
Mygalomorphae	Anamidae / <i>Kwonkan</i>	GTR + G + I	0.61
Mygalomorphae	Euagridae	GTR + G + I	0.87
Mygalomorphae	Barychelidae	GTR + G + I	0.72
Mygalomorphae	Idiopidae	GTR + G + I	0.63
Mygalomorphae	Halanoproctidae	GTR + G + I	0.91

4.0 Results

Amongst the total 45 analysed specimens from the current study belonging to the five family groups were 16 lineages (8 Anamidae, 3 Euagridae, 2 Barychelidae, 2 Idiopidae, 1 Halanoproctidae). Of the 16 lineages, it appears that eight are new and hadve not been detected previously (Table 1), according to the molecular data available for comparison.

For the purposes of this report, lineages were defined as haplotypes or groups of haplotypes differing from other such groups by > 3 % sequence divergence. While data from COI bar-coding studies of a broad range of taxa including arthropods, birds, fish and mammals, indicates that intra-specific variation rarely exceeds 2 % (Ratnasingham *et al.* 2013), the 3 % cut-off was selected following a review of studies of mygalomorph fauna from Western Australia, which indicate that genetic divergence between members of a single species can exceed 2 %, given the barriers to dispersal encountered by fauna with limited dispersal capabilities (Castalanelli *et al.*, 2014). Examples of intra-specific variation between morphologically distinct described species of Mygalomorphae range from 0.15 % to 5.2 % in three species of *Aname* and 0.3 % to 13.8 % in a fourth species of *Aname* (Harvey *et al.*, 2012). Castalanelli *et al.* (2014) found 0% - 8.5% intra-specific variation in 23 presumed species of Mygalomorphae and 10.2 % – 18.1 % intraspecific variation in eight presumptive species. Lineages detected in the present study may represent distinct species, or may represent variation within a single species. The Ratnasingham *et al.* study (2013) also showed that most species differ from their closest relative by > 6 % at COI, however data from local Mygalomorph studies indicate that a taxon by taxon approach, examining the amount of phylogenetic variation within and between morphologically distinct groups is necessary to delineate species and their distributions, especially in areas where rapidly expanding mining operations outpace taxonomic treatment of unresolved taxa.

NB. For most groups Helix lineage names have been updated for the current report to reflect new knowledge and current Helix nomenclature. This update includes the prefix 'H-'.

4.1 Mygalomorphae

The infraorder of Arachnida, Mygalomorphae, includes trapdoor spiders and their kin, which are frequently identified as short-range endemics (SREs) (e.g. Harvey *et al.*, 2011; Castalanelli *et al.*, 2014). This ancient group has a worldwide distribution that includes tarantulas, trapdoor spiders and highly venomous funnel-web spiders (Opatova *et al.*, 2020). Identification of species has traditionally been performed using morphological techniques, however, only males can be used in identification, as both females and juveniles lack the diagnostic characters used in identification, and furthermore there is a large backlog of undescribed taxa. DNA barcoding with the use of COI mtDNA has become a rapid, objective method aiding mygalomorph species identifications and their distributions, and is recognised as providing important information that regulatory authorities can use to assess environmental impacts of large-scale developments (Harvey *et al.*, 2008; Castalanelli *et al.*, 2014). Extensive molecular work has been conducted on the trap-door spider fauna of Western Australia (Helix, 2009a & b, 2010, 2011a - l, 2012a - i, 2013a & b, 2014a - d, 2015a – e, 2018, 2019, 2020, 2021). The resulting dataset provides a molecular framework that can be used to provide regional context for localised sampling.

4.1.1 Family Anamidae

The family Anamidae (previously Nemesiidae) is one of the most diverse and species-rich mygalomorph families in Australia (Castalanelli *et al.*, 2014; 2017; 2020). It is considered the most dominant trapdoor spider family in Australia (Castalanelli *et al.*, 2020) and currently includes nine genera (*Aname*, L. Koch, 1873, *Chenistonia* Hogg, 1901, *Hesperonatalius*, Castalanelli *et al.*, 2017, *Kwonkan*, Main, 1983, *Namea*, Raven, 1984, *Proshermacha*, Simon, 1908, *Swolnpes*, Main & Framenau, 2009, *Teyl*, Main 1975, and *Teyloides*, Main 1985), (Castalanelli *et al.*, 2014; 2017; 2020). The most speciose of these genera, *Aname*, is found across most of Australia and currently contains 34 named species (Harvey *et al.*, 2018). In the present study, 32 individuals of Anamidae were successfully sequenced from twelve sampling localities (Table 1) at Mt Gibson.

Reference Specimens and Outgroups

Initial analyses of all Mt Gibson Anamidae specimens (n=32) included 459 reference specimens from the family Anamidae from both the Helix database and from GenBank, as well as the outgroups *Centuroides vittatus* (GenBank Accession # EU404114), and *Mesobuthus martensii* (GenBank Accession # JF00146). The reference dataset was then divided into two subsets to give appropriate context to the Anamidae specimens from Mt Gibson.

Subset 1: *Kwonkan* group

Two Mt Gibson specimens (RB26 & RB30) were subsequently analysed along with 86 Anamidae reference specimens, the majority of which belonged to the genus *Kwonkan*. This included 42 specimens from the Helix database and 44 from GenBank.

Subset 2: *Aname* group (excluding *Kwonkan*)

The remaining Mt Gibson specimens belonging to the family Anamidae (n=30) were then analysed with 405 reference specimens, the majority of which belonged to the genus *Aname*. This included 151 specimens from the Helix database and 254 from GenBank.

Phylogenetic Analyses

Between the two separate phylogenetic analyses, the 32 specimens were spread amongst eight distinct lineages, all of which appear to sit within the family Anamidae (Figure 2, Figure 3). Six of the lineages (30 specimens) aligned with reference specimens of *Aname* (Figure 2) and two of the lineages (two specimens) were aligned with reference specimens in the dataset that included the genus *Kwonkan* (Figure 3).

Subset 1: *Kwonkan* group

Two specimens were placed in two distinct lineages within the *Kwonkan* dataset (Figure 3). As these lineages contained no other reference specimens, they were assigned the new lineages **H-N159*** and **H-N160*** (Figure 3).

Subset 2: *Aname* group (excluding *Kwonkan*)

Of the six lineages detected in this analysis, two of the lineages have been detected previously, whilst four appear to be new. Specifically, eight specimens aligned with other specimens belonging to the previously detected H-N154/MYG364 lineage from the Pilbara region (see Figure 2). Two specimens aligned with reference specimens belonging to the previously detected lineage H-N84 from Mt. Gibson (Figure 2). The remaining 20 specimens were placed in four new, distinct lineages that contained no other reference specimens as follows: **H-N155*** (n=1), **H-N156*** (n=8), **H-N157*** (n=8) and **H-N158*** (n=3).

Differentiation within and between lineages

Kwonkan group

No reference specimens showed a close relationship with the *Kwonkan* specimen **RB30** from Mt Gibson. The **RB30** specimen from site MGT14SRE showed 11.5 % molecular sequence divergence from the closest reference specimen, *Kwonkan* sp. 'MYG650' (GenBank accession # MT656266, WAM T145316) (Table 5). The next closest relative was *Kwonkan* sp. MYG361 (GenBank accession # KJ745281, WAM T78543) at 12.9% sequence divergence (Table 5).

The **RB26** specimen from site MGT15SRE at Mt Gibson showed 11.7 % molecular sequence divergence from the two closest reference specimens (*Aname* / *Kwonkan* sp. 'MYG250' GB KJ744975, WAM T121597 and *Aname* / *Kwonkan* 'MYG250' (Helix Database specimen, WAM T121597) (Table 5).

The two *Kwonkan* lineages from Mt Gibson have not been detected previously according to the molecular sequence data available for comparison and show 15.6 % sequence divergence from each other (Table 5).

Aname group

Amongst the 30 *Aname* specimens from Mt Gibson there was between 0.0 % and 20.1 % molecular sequence divergence (Table 3).

Differentiation within lineages was generally low, indicating that each lineage likely represents a single species. Differentiation in lineage H-N154 / MYG368 ranged from 0.2 % to 2.1 % sequence divergence between specimens. Lineage **H-N155*** contained a single individual, so variation was not calculated. Differentiation in lineage H-N156 ranged from 0.0 % to 3.3 % sequence divergence between specimens. Differentiation in lineage H-N157 ranged from 0.0 % to 2.1 % sequence divergence between specimens. There was no genetic differentiation between the two individuals in lineage H-N84.

The six lineages differed from the nearest reference specimens by between 0.0 % and 15.7 % sequence divergence (see Appendices 1 to 6). Specifically, the specimens in lineage H-N84 (RB12, RB15) were genetically identical to the reference specimen (NDC_N84_O288) (Appendix 1) and the specimens in lineage H-N154 (RB02, RB03, RB09, RB13, RB17, RB18, RB19, RB21) differed from the nearest reference specimen (H-N58) by between 1.4 % and 2.3% sequence divergence (Appendix 2).

The specimen in lineage **H-N155*** (RB31) differed from the nearest reference specimen (MYG367) by 15.7 % sequence divergence (Appendix 3), and the specimens in lineage **H-N156*** (RB06, RB08, RB11, RB22, RB25, RB27, RB28, RB29) differed from the nearest reference specimen (MYG727) by between 10.0 % and 11.1 % sequence divergence (Appendix 4). The specimens in lineage **H-N157*** (RB01, RB04, RB05, RB07, RB10, RB14, RB20, RB49) differed from the nearest reference specimen (MYG001) by between 7.3 % and 7.8 % sequence divergence (Appendix 5) and the specimens in lineage **H-N158*** (RB16, RB23, RB24) differed from the nearest reference specimen (H-N58) by between 13.7 % and 15.0% sequence divergence (Appendix 6).

Conclusion

A total of eight lineages of Anamidae have been detected at Mt Gibson from 12 sites likely corresponding to eight distinct species, two lineages/species of *Kwonkan* and six lineages/species of *Aname*. Of the eight lineages detected during the current survey, six were new lineages and species (two *Kwonkan*: **H-N159*** and **H-N160*** and four *Aname*: **H-N155*** - **H-N158***), as they differed from the nearest reference specimens by > 7.3 %. Of the remaining lineages, two (*Aname* sp. N84 & *Aname* sp. H-154 / MYG364) have been detected previously from Mt. Gibson and the Pilbara region, respectively.

Aname sp H-N154 / MYG364

RB09 (MGT02SRE_SS), RB02 (MGT01SRE_MG), RB19 (MGT07SRE_MG), RB21 (MGT08SRE_MG), RB13 (MGT10SRE_MG), RB03 (MGT02SRE_MG), RB18 (MGT07SRE_MG), RB17 (MGT07SRE_MG) (see Figure 1), from a total of five sites during the survey at Mt Gibson. The species has been recorded previously and labelled as 'sp. MYG 364' on GenBank (GenBank accession # KJ745296; WAM # T85262).

Aname sp H-N84

RB12, RB15 recorded from a single site (MGT10SRE_NG) from outside the study area (Figure 1) during current survey. The species has been previously recorded from Mt Gibson (2008), according to sequence data records from the Helix database.

Aname sp. **H-N155***

RB31 – single individual recorded from MGT07SRE_MG from the study area (Figure 1).

Aname sp. **H-N156***

RB22 (MGT09SRE_MG), RB06 (MGT05SRE_RD), RB25 (MGT09SRE_MG), RB28 (MGT14SRE_MG), RB27 (MGT14SRE_MG), RB08 (MGT01SRE_SS), RB29 (MGT14SRE_MG), RB11 (MGT05SRE_SS) from five sites during current survey (Figure 1).

Aname sp. **H-N157***

RB14 (MGT10SRE_MG), RB04 (MGT02SRE_RD), RB07 (MGT01SRE_SS), RB05 (MGT03SRE_RD), RB49 (MGT02SRE_SS), RB10 (MGT02SRE_SS), RB20 (MGT08SRE_MG), RB01 (MGT01SRE_RD) from at total of seven sites during current survey (Figure 1).

Aname sp. **H-N158***

RB16, RB23, RB24 all recorded from a single site (MGT09SRE_MG) during the current survey (Figure 1).

Anamidae (*Aname* / *Kwonkan*) **H-N159***

RB26 from MGT15SRE_MG during the current survey (Figure 1)

Anamidae (*Aname* / *Kwonkan*) **H-N160***

RB30 from MGT14SRE_MG during the current survey (Figure 1).

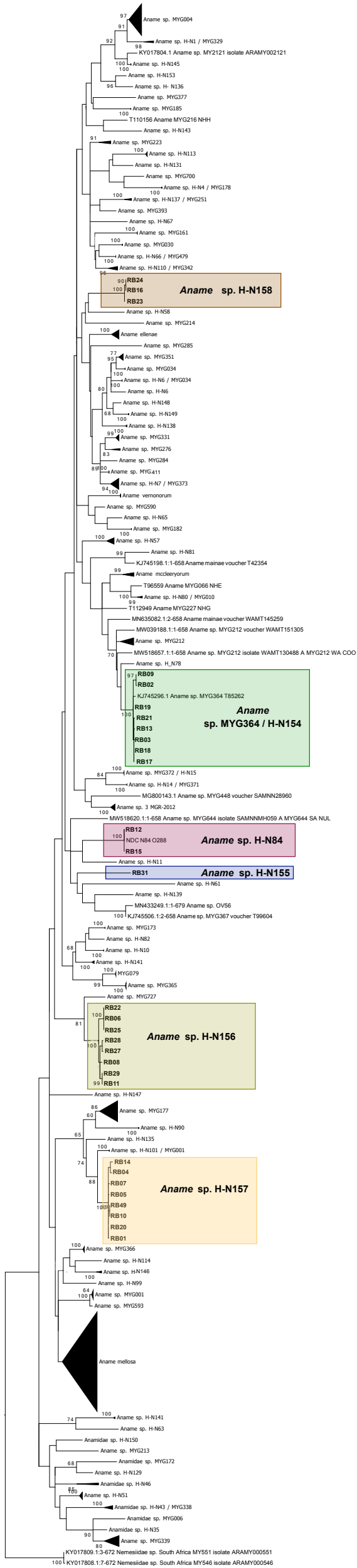


Figure 2: Maximum Likelihood analysis of COI mtDNA sequences, showing the placement of 30 Mt Gibson Anamidae specimens (‘RB’ prefix), within the taxonomic framework of the family Anamidae (excluding *Kwonkan*), including 405 reference specimens with 151 from the Helix database and 254 from GenBank.

Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site).

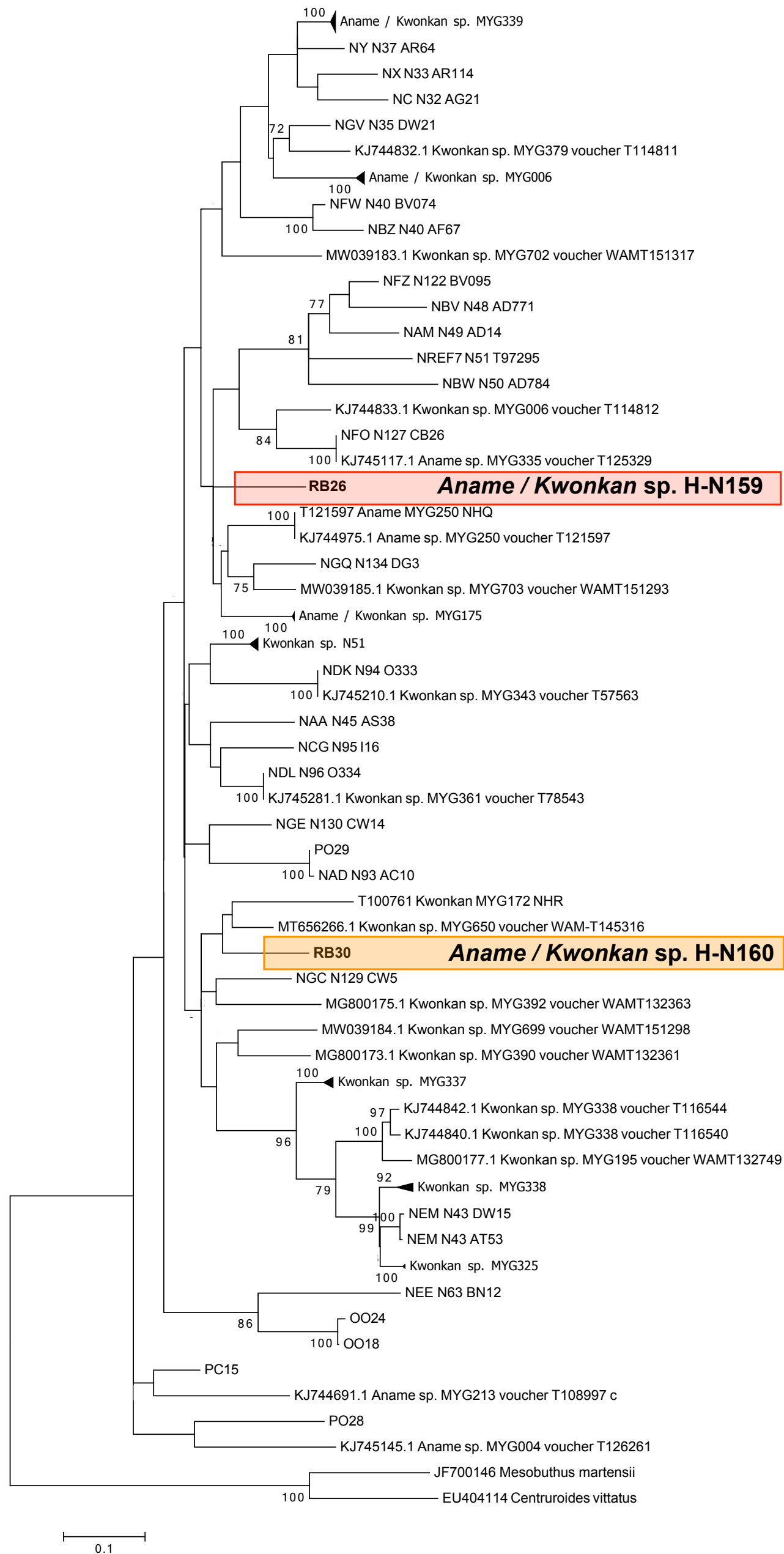


Figure 3: Maximum Likelihood analysis of COI mtDNA sequences, showing the placement of the two *Kwonkan* specimens from Mt Gibson (‘RB’ prefix), representing the within the taxonomic framework of the family Anamidae, in particular a subset of the available data including all *Kwonkan* sequences data currently available for comparison, including 86 reference specimens, with 42 from Helix, and 44 from GB. Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site).

Table 3: Mt Gibson Anamidae ('RB' prefix) p-distance (below) and the associated standard error (above – **blue** text), excluding the two specimens (RB26 and RB30) aligning with *Kwonkan*.
Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

	RB49	RB31	RB29	RB28	RB27	RB25	RB24	RB23	RB22	RB21	RB20	RB19	RB18	RB17	RB16	RB15	RB14	RB13	RB12	RB11	RB10
RB49		0.019397	0.018472	0.018373	0.018373	0.018762	0.019397	0.019397	0.018762	0.017752	0.004080	0.017859	0.017859	0.017859	0.019397	0.018666	0.007016	0.017859	0.018666	0.018472	0.000000
RB31	0.198582		0.019221	0.019309	0.019131	0.019483	0.018373	0.018171	0.019483	0.019131	0.019483	0.018762	0.019041	0.019041	0.018373	0.018666	0.019397	0.019041	0.018666	0.019221	0.019397
RB29	0.174941	0.193853		0.006203	0.006203	0.008392	0.018472	0.018472	0.008392	0.018472	0.018373	0.018171	0.018373	0.018373	0.018472	0.017965	0.017859	0.018373	0.017965	0.000000	0.018472
RB28	0.172577	0.196217	0.016548		0.003335	0.008698	0.018273	0.018273	0.008698	0.018273	0.018273	0.017965	0.018171	0.018171	0.018273	0.017423	0.017752	0.018171	0.017423	0.006203	0.018373
RB27	0.172577	0.191489	0.016548	0.004728		0.008698	0.018069	0.018069	0.008698	0.018273	0.018273	0.017965	0.018171	0.018171	0.018069	0.017423	0.017752	0.018171	0.017423	0.006203	0.018373
RB25	0.182033	0.200946	0.030733	0.033097	0.033097		0.018472	0.018472	0.000000	0.018373	0.018666	0.018069	0.018273	0.018273	0.018472	0.017196	0.018171	0.018273	0.017196	0.008392	0.018762
RB24	0.198582	0.172577	0.174941	0.170213	0.165485	0.174941		0.003335	0.018472	0.017644	0.019131	0.017311	0.017534	0.017534	0.000000	0.017644	0.019041	0.017534	0.017644	0.018472	0.019397
RB23	0.198582	0.167849	0.174941	0.170213	0.165485	0.174941	0.004728		0.018472	0.017644	0.019131	0.017311	0.017534	0.017534	0.003335	0.017423	0.019041	0.017534	0.017423	0.018472	0.019397
RB22	0.182033	0.200946	0.030733	0.033097	0.033097	0.000000	0.174941	0.174941		0.018373	0.018666	0.018069	0.018273	0.018273	0.018472	0.017196	0.018171	0.018273	0.017196	0.008392	0.018762
RB21	0.158392	0.191489	0.174941	0.170213	0.170213	0.172577	0.156028	0.156028	0.172577		0.017534	0.004706	0.002361	0.002361	0.017644	0.018666	0.017534	0.003335	0.018666	0.018472	0.017752
RB20	0.007092	0.200946	0.172577	0.170213	0.170213	0.179669	0.191489	0.191489	0.179669	0.153664		0.017644	0.017644	0.017644	0.019131	0.018472	0.005750	0.017644	0.018472	0.018373	0.004080
RB19	0.160757	0.182033	0.167849	0.163121	0.163121	0.165485	0.148936	0.148936	0.165485	0.009456	0.156028		0.004080	0.004080	0.017311	0.018570	0.017644	0.004706	0.018570	0.018171	0.017859
RB18	0.160757	0.189125	0.172577	0.167849	0.167849	0.170213	0.153664	0.153664	0.170213	0.002364	0.156028	0.007092		0.000000	0.017534	0.018570	0.017644	0.002361	0.018570	0.018373	0.017859
RB17	0.160757	0.189125	0.172577	0.167849	0.167849	0.170213	0.153664	0.153664	0.170213	0.002364	0.156028	0.007092	0.000000		0.017534	0.018570	0.017644	0.002361	0.018570	0.018373	0.017859
RB16	0.198582	0.172577	0.174941	0.170213	0.165485	0.174941	0.000000	0.004728	0.174941	0.156028	0.191489	0.148936	0.153664	0.153664		0.017644	0.019041	0.017534	0.017644	0.018472	0.019397
RB15	0.179669	0.179669	0.163121	0.151300	0.151300	0.146572	0.156028	0.151300	0.146572	0.179669	0.174941	0.177305	0.177305	0.177305	0.156028		0.018273	0.018570	0.000000	0.017965	0.018666
RB14	0.021277	0.198582	0.160757	0.158392	0.158392	0.167849	0.189125	0.189125	0.167849	0.153664	0.014184	0.156028	0.156028	0.156028	0.189125	0.170213		0.017752	0.018273	0.017859	0.007016
RB13	0.160757	0.189125	0.172577	0.167849	0.167849	0.170213	0.153664	0.153664	0.170213	0.004728	0.156028	0.009456	0.002364	0.002364	0.153664	0.177305	0.158392		0.018570	0.018373	0.017859
RB12	0.179669	0.179669	0.163121	0.151300	0.151300	0.146572	0.156028	0.151300	0.146572	0.179669	0.174941	0.177305	0.177305	0.177305	0.156028	0.000000	0.170213	0.177305		0.017965	0.018666
RB11	0.174941	0.193853	0.000000	0.016548	0.016548	0.030733	0.174941	0.174941	0.030733	0.174941	0.172577	0.167849	0.172577	0.172577	0.174941	0.163121	0.160757	0.172577	0.163121		0.018472
RB10	0.000000	0.198582	0.174941	0.172577	0.172577	0.182033	0.198582	0.198582	0.182033	0.158392	0.007092	0.160757	0.160757	0.160757	0.198582	0.179669	0.021277	0.160757	0.179669	0.174941	
RB09	0.167849	0.186761	0.170213	0.165485	0.165485	0.167849	0.148936	0.148936	0.167849	0.018913	0.163121	0.018913	0.016548	0.016548	0.148936	0.177305	0.163121	0.018913	0.177305	0.170213	0.167849
RB08	0.170213	0.191489	0.016548	0.018913	0.018913	0.028369	0.177305	0.177305	0.028369	0.165485	0.167849	0.158392	0.163121	0.163121	0.177305	0.156028	0.163121	0.156028	0.016548	0.170213	
RB07	0.011820	0.200946	0.172577	0.170213	0.170213	0.179669	0.186761	0.186761	0.179669	0.153664	0.004728	0.156028	0.156028	0.156028	0.186761	0.174941	0.014184	0.156028	0.174941	0.172577	0.011820
RB06	0.182033	0.200946	0.030733	0.033097	0.033097	0.000000	0.174941	0.174941	0.000000	0.172577	0.179669	0.165485	0.170213	0.170213	0.174941	0.146572	0.167849	0.170213	0.146572	0.030733	0.182033
RB05	0.009456	0.198582	0.170213	0.167849	0.167849	0.177305	0.189125	0.189125	0.177305	0.151300	0.002364	0.153664	0.153664	0.153664	0.189125	0.172577	0.016548	0.153664	0.172577	0.170213	0.009456
RB04	0.018913	0.198582	0.170213	0.167849	0.167849	0.172577	0.193853	0.193853	0.172577	0.160757	0.011820	0.163121	0.163121	0.163121	0.193853	0.170213	0.011820	0.163121	0.170213	0.170213	0.018913
RB03	0.163121	0.191489	0.174941	0.170213	0.170213	0.172577	0.156028	0.156028	0.172577	0.004728	0.158392	0.009456	0.002364	0.002364	0.156028	0.179669	0.158392	0.004728	0.179669	0.174941	0.163121
RB02	0.170213	0.189125	0.172577	0.167849	0.167849	0.170213	0.151300	0.151300	0.170213	0.021277	0.165485	0.021277	0.018913	0.018913	0.151300	0.179669	0.165485	0.021277	0.179669	0.172577	0.170213
RB01	0.011820	0.200946	0.172577	0.170213	0.170213	0.179669	0.186761	0.186761	0.179669	0.158392	0.004728	0.160757	0.160757	0.160757	0.186761	0.174941	0.018913	0.160757	0.174941	0.172577	0.011820

	RB09	RB08	RB07	RB06	RB05	RB04	RB03	RB02	RB01
RB49	0.018171	0.018273	0.005255	0.018762	0.004706	0.006623	0.017965	0.018273	0.005255
RB31	0.018949	0.019131	0.019483	0.019483	0.019397	0.019397	0.019131	0.019041	0.019483
RB29	0.018273	0.006203	0.018373	0.008392	0.018273	0.018273	0.018472	0.018373	0.018373
RB28	0.018069	0.006623	0.018273	0.008698	0.018171	0.018171	0.018273	0.018171	0.018273
RB27	0.018069	0.006623	0.018273	0.008698	0.018171	0.018171	0.018273	0.018171	0.018273
RB25	0.018171	0.008072	0.018666	0.000000	0.018570	0.018373	0.018373	0.018273	0.018666
RB24	0.017311	0.018570	0.018949	0.018472	0.019041	0.019221	0.017644	0.017423	0.018949
RB23	0.017311	0.018570	0.018949	0.018472	0.019041	0.019221	0.017644	0.017423	0.018949
RB22	0.018171	0.008072	0.018666	0.000000	0.018570	0.018373	0.018373	0.018273	0.018666
RB21	0.006623	0.018069	0.017534	0.018373	0.017423	0.017859	0.003335	0.007016	0.017752
RB20	0.017965	0.018171	0.003335	0.018666	0.002361	0.005255	0.017752	0.018069	0.003335
RB19	0.006623	0.017752	0.017644	0.018069	0.017534	0.017965	0.004706	0.007016	0.017859
RB18	0.006203	0.017965	0.017644	0.018273	0.017534	0.017965	0.002361	0.006623	0.017859
RB17	0.006203	0.017965	0.017644	0.018273	0.017534	0.017965	0.002361	0.006623	0.017859
RB16	0.017311	0.018570	0.018949	0.018472	0.019041	0.019221	0.017644	0.017423	0.018949
RB15	0.018570	0.017644	0.018472	0.017196	0.018373	0.018273	0.018666	0.018666	0.018472
RB14	0.017965	0.017644	0.005750	0.018171	0.006203	0.005255	0.017752	0.018069	0.006623
RB13	0.006623	0.017965	0.017644	0.018273	0.017534	0.017965	0.003335	0.007016	0.017859
RB12	0.018570	0.017644	0.018472	0.017196	0.018373	0.018273	0.018666	0.018666	0.018472
RB11	0.018273	0.006203	0.018373	0.008392	0.018273	0.018273	0.018472	0.018373	0.018373
RB10	0.018171	0.018273	0.005255	0.018762	0.004706	0.006623	0.017965	0.018273	0.005255
RB09		0.017859	0.017965	0.018171	0.017859	0.018273	0.006623	0.002361	0.017965
RB08	0.160757		0.018171	0.008072	0.018069	0.018069	0.018069	0.017965	0.018171
RB07	0.163121	0.167849		0.018666	0.004080	0.006203	0.017752	0.018069	0.004706
RB06	0.167849	0.028369	0.179669		0.018570	0.018373	0.018373	0.018273	0.018666
RB05	0.160757	0.165485	0.007092	0.177305		0.005750	0.017644	0.017965	0.004080
RB04	0.170213	0.165485	0.016548	0.172577	0.014184		0.018069	0.018373	0.006203
RB03	0.018913	0.165485	0.158392	0.172577	0.156028	0.165485		0.007016	0.017965
RB02	0.002364	0.163121	0.165485	0.170213	0.163121	0.172577	0.021277		0.018069
RB01	0.163121	0.167849	0.009456	0.179669	0.007092	0.016548	0.163121	0.165485	

Table 4: Mt Gibson Anamidae p-distance and the associated standard error (**blue text**).
Specimens and lineages in bold text represent lineages detected during the current survey. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Species 1	Species 2	Dist	Std. Err
RB26	KJ744975.1 <i>Aname</i> sp. MYG250 voucher T121597	0.117808	0.016874
RB26	T121597 <i>Aname</i> MYG250 NHQ	0.117808	0.016874
RB26	KJ744403.1 <i>Kwonkan</i> sp. MYG175 voucher T101209	0.123288	0.017208
RB26	PC12	0.123288	0.017208
RB26	T101209 <i>Kwonkan</i> MYG175 NHP	0.123288	0.017208
RB26	PC17	0.126027	0.017371
RB26	PC27	0.126027	0.017371
RB26	KJ745281.1 <i>Kwonkan</i> sp. MYG361 voucher T78543	0.126027	0.017371
RB26	NDL N96 O334	0.126027	0.017371
RB26	NRW N144 OU21	0.128767	0.017532
RB26	OU21	0.128767	0.017532
RB26	PC30	0.128767	0.017532
RB26	MW039184.1 <i>Kwonkan</i> sp. MYG699 voucher WAMT151298	0.131507	0.017689
RB26	MW039185.1 <i>Kwonkan</i> sp. MYG703 voucher WAMT151293	0.131507	0.017689
RB26	NCG N95 I16	0.131507	0.017689
RB26	NSD N151 PC13	0.131507	0.017689
RB26	MG800173.1 <i>Kwonkan</i> sp. MYG390 voucher WAMT132361	0.134247	0.017844
RB26	MG800175.1 <i>Kwonkan</i> sp. MYG392 voucher WAMT132363	0.134247	0.017844
RB26	PC29	0.134247	0.017844
RB26	KJ744833.1 <i>Kwonkan</i> sp. MYG006 voucher T114812	0.136986	0.017997
RB26	PC15	0.139726	0.018147
RB26	NGQ N134 DG3	0.139726	0.018147
RB26	KJ744499.1 <i>Aname</i> sp. MYG339 voucher T103191	0.142466	0.018295
RB26	KJ745210.1 <i>Kwonkan</i> sp. MYG343 voucher T57563	0.142466	0.018295
RB26	MT656266.1 <i>Kwonkan</i> sp. MYG650 voucher WAM-T145316	0.142466	0.018295
RB26	NAA N45 AS38	0.142466	0.018295
RB26	NDK N94 O333	0.142466	0.018295
RB26	KJ744615.1 <i>Aname</i> sp. MYG339 voucher T105858	0.145205	0.018441
RB26	KJ744616.1 <i>Aname</i> sp. MYG339 voucher T105859	0.145205	0.018441
RB26	KJ744643.1 <i>Aname</i> sp. MYG339 voucher T105906	0.145205	0.018441
RB26	NFW N40 BV074	0.145205	0.018441
RB26	NFZ N122 BV095	0.145205	0.018441
RB26	KJ744612.1 <i>Aname</i> sp. MYG339 voucher T105852	0.147945	0.018584
RB26	KJ744625.1 <i>Aname</i> sp. MYG339 voucher T105873	0.147945	0.018584
RB26	KJ744635.1 <i>Aname</i> sp. MYG339 voucher T105893	0.147945	0.018584
RB26	KJ744637.1 <i>Aname</i> sp. MYG339 voucher T105899	0.147945	0.018584
RB26	KJ744638.1 <i>Aname</i> sp. MYG339 voucher T105900	0.147945	0.018584
RB26	KJ744842.1 <i>Kwonkan</i> sp. MYG338 voucher T116544	0.147945	0.018584
RB26	KJ745117.1 <i>Aname</i> sp. MYG335 voucher T125329	0.147945	0.018584
RB26	NBV N48 AD771	0.147945	0.018584
RB26	NFO N127 CB26	0.147945	0.018584

Table 5: Mt Gibson Anamidæ (*Kwonkan*) p-distance and the associated standard error (blue text).

Specimens in bold are those from Mt Gibson. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Mt Gibson Specimen	Reference specimens	P distance	Std. Err
RB30	MT656266.1 <i>Kwonkan</i> sp. MYG650 voucher WAM-T145316	0.115068	0.016703
RB30	KJ745281.1 <i>Kwonkan</i> sp. MYG361 voucher T78543	0.128767	0.017532
RB30	NDL N96 O334	0.128767	0.017532
RB30	MW039183.1 <i>Kwonkan</i> sp. MYG702 voucher WAMT151317	0.134247	0.017844
RB30	NCG N95 I16	0.136986	0.017997
RB30	NY N37 AR64	0.136986	0.017997
RB30	KJ745210.1 <i>Kwonkan</i> sp. MYG343 voucher T57563	0.139726	0.018147
RB30	NDK N94 O333	0.139726	0.018147
RB30	MG800173.1 <i>Kwonkan</i> sp. MYG390 voucher WAMT132361	0.142466	0.018295
RB30	NGE N130 CW14	0.145205	0.018441
RB30	PO29	0.145205	0.018441
RB30	KJ744499.1 <i>Aname</i> sp. MYG339 voucher T103191	0.147945	0.018584
RB30	KJ744615.1 <i>Aname</i> sp. MYG339 voucher T105858	0.147945	0.018584
RB30	KJ744616.1 <i>Aname</i> sp. MYG339 voucher T105859	0.147945	0.018584
RB30	KJ744625.1 <i>Aname</i> sp. MYG339 voucher T105873	0.147945	0.018584
RB30	KJ744637.1 <i>Aname</i> sp. MYG339 voucher T105899	0.147945	0.018584
RB30	KJ744638.1 <i>Aname</i> sp. MYG339 voucher T105900	0.147945	0.018584
RB30	KJ744643.1 <i>Aname</i> sp. MYG339 voucher T105906	0.147945	0.018584
RB30	KJ744963.1 <i>Kwonkan</i> sp. MYG337 voucher T120001	0.147945	0.018584
RB30	KJ744964.1 <i>Kwonkan</i> sp. MYG337 voucher T120003	0.147945	0.018584
RB30	KJ744968.1 <i>Kwonkan</i> sp. MYG337 voucher T120014	0.147945	0.018584
RB30	MW039185.1 <i>Kwonkan</i> sp. MYG703 voucher WAMT151293	0.147945	0.018584
RB30	NAA N45 AS38	0.147945	0.018584
RB30	NAD N93 AC10	0.147945	0.018584
RB30	NFW N40 BV074	0.147945	0.018584
RB30	NGQ N134 DG3	0.147945	0.018584
RB30	NSD N151 PC13	0.147945	0.018584
RB30	PC12	0.147945	0.018584
RB30	PC17	0.147945	0.018584
RB30	PC30	0.147945	0.018584

Mt Gibson Specimen	Reference specimens	P distance	Std. Err
RB30	T100761 <i>Kwonkan</i> MYG172 NHR	0.147945	0.018584
RB26	KJ744975.1 <i>Aname</i> sp. MYG250 voucher T121597	0.117808	0.016874
RB26	T121597 <i>Aname</i> MYG250 NHQ	0.117808	0.016874
RB26	KJ744403.1 <i>Kwonkan</i> sp. MYG175 voucher T101209	0.123288	0.017208
RB26	PC12	0.123288	0.017208
RB26	T101209 <i>Kwonkan</i> MYG175 NHP	0.123288	0.017208
RB26	PC17	0.126027	0.017371
RB26	PC27	0.126027	0.017371
RB26	KJ745281.1 <i>Kwonkan</i> sp. MYG361 voucher T78543	0.126027	0.017371
RB26	NDL N96 O334	0.126027	0.017371
RB26	NRW N144 OU21	0.128767	0.017532
RB26	OU21	0.128767	0.017532
RB26	PC30	0.128767	0.017532
RB26	MW039184.1 <i>Kwonkan</i> sp. MYG699 voucher WAMT151298	0.131507	0.017689
RB26	MW039185.1 <i>Kwonkan</i> sp. MYG703 voucher WAMT151293	0.131507	0.017689
RB26	NCG N95 I16	0.131507	0.017689
RB26	NSD N151 PC13	0.131507	0.017689
RB26	MG800173.1 <i>Kwonkan</i> sp. MYG390 voucher WAMT132361	0.134247	0.017844
RB26	MG800175.1 <i>Kwonkan</i> sp. MYG392 voucher WAMT132363	0.134247	0.017844
RB26	PC29	0.134247	0.017844
RB26	KJ744833.1 <i>Kwonkan</i> sp. MYG006 voucher T114812	0.136986	0.017997
RB26	PC15	0.139726	0.018147
RB26	NGQ N134 DG3	0.139726	0.018147
RB26	KJ744499.1 <i>Aname</i> sp. MYG339 voucher T103191	0.142466	0.018295
RB26	KJ745210.1 <i>Kwonkan</i> sp. MYG343 voucher T57563	0.142466	0.018295
RB26	MT656266.1 <i>Kwonkan</i> sp. MYG650 voucher WAM-T145316	0.142466	0.018295
RB26	NAA N45 AS38	0.142466	0.018295
RB26	NDK N94 O333	0.142466	0.018295
RB26	KJ744615.1 <i>Aname</i> sp. MYG339 voucher T105858	0.145205	0.018441
RB26	KJ744616.1 <i>Aname</i> sp. MYG339 voucher T105859	0.145205	0.018441
RB26	KJ744643.1 <i>Aname</i> sp. MYG339 voucher T105906	0.145205	0.018441
RB26	NFW N40 BV074	0.145205	0.018441
RB26	NFZ N122 BV095	0.145205	0.018441
RB26	KJ744612.1 <i>Aname</i> sp. MYG339 voucher T105852	0.147945	0.018584

Mt Gibson Specimen	Reference specimens	P distance	Std. Err
RB26	KJ744625.1 <i>Aname</i> sp. MYG339 voucher T105873	0.147945	0.018584
RB26	KJ744635.1 <i>Aname</i> sp. MYG339 voucher T105893	0.147945	0.018584
RB26	KJ744637.1 <i>Aname</i> sp. MYG339 voucher T105899	0.147945	0.018584
RB26	KJ744638.1 <i>Aname</i> sp. MYG339 voucher T105900	0.147945	0.018584
RB26	KJ744842.1 <i>Kwonkan</i> sp. MYG338 voucher T116544	0.147945	0.018584
RB26	KJ745117.1 <i>Aname</i> sp. MYG335 voucher T125329	0.147945	0.018584
RB26	NBV N48 AD771	0.147945	0.018584
RB26	NFO N127 CB26	0.147945	0.018584
RB30	RB26	0.156164	0.019001

4.1.2 Family Euagridae (previously Dipluridae)

The family Euagridae, formerly Dipluridae (Opatova *et al.*, 2020), includes the Australian genera *Cethegus* and *Australothele* (Opatova *et al.*, 2020). It roughly corresponds to the former subfamily Euagrinae (Raven, 1985) that currently comprises 11 genera with distribution spanning across Australia, Asia, Africa, and South and North America (Opatova *et al.*, 2020).

Five euagrid mygalomorph specimens (RB36, RB38, RB39, RB40, RB42) from five sites (Table 1) were sequenced from the North Onslow Salt Project area.

Reference Specimens and Outgroups

The five euagrid specimens were analysed along with 34 reference specimens (16 from the GenBank database and 18 from the Helix database), representing eight species of Euagridae comprised of 24 specimens, as well as the two outgroups *Centuroides vittatus* (GenBank Accession # EU404114), and *Mesobuthus martensii* (GenBank Accession # JF00146) all obtained from GenBank.

Phylogenetic Analyses

The five euagrid specimens from Mt Gibson were spread across three separate lineages (Figure 4). The first included the two specimens RB36 & RB40 (**H-EB_E02***) from sites MGT01 & MGT06 respectively (Figure 4, Table 1). The second euagrid lineage was comprised of RB39 & RB42 (**H-EC_E03***) from MGT10 and MGT09 respectively (Figure 4, Table 1). These first two lineages show a close relationship, likely sister clades which has high statistical support (Figure 4). The third lineage, containing the single specimen RB38 (**H-EC_E04***) aligns closest with a *Cethegus fugax* specimen obtained from GenBank (KY295227) (Figure 4), also with high statistical support for this relationship.

Differentiation within and between lineages

The five euagrid specimens from Mt Gibson show between 0.0 % and 13.1 % molecular sequence divergence from one another, with two specimens (RB36 & RB40) (**H-EB_E02***) sharing the same haplotype (Table 6). Specimens RB39 and RB42 (**H-EC_E03***) differ from one another by 3.7%, and the two differ from the first lineage (RB36 / RB40) (**H-EB_E02***) by between 5.1 % and 5.3 % (Table 7). These two closely related Mt. Gibson lineages show between 4.5 % to 5.1 % and 5.3 % to 6.6 % sequence divergence, respectively from the reference lineage 'Euagridae sp. D3' (Table 6).

The closest relative to the third lineage (RB38) (**H-ED_E04***) was 9.6 % divergent, a reference specimen of *Cethegus fugax* obtained from GenBank (KJ295227) (Table 6). This Mt Gibson specimen showed between 11.2 % & 13.6 % molecular sequence divergence from the other halanoproctid specimens from Mt Gibson (Table 6).

Conclusions

The five specimens, from five separate sites, likely represent three species in the family Euagridae.

Euagridae

Euagridae sp. H-EB E02*

A distinct lineage containing specimens RB36 & RB40 (**H-EB_E02***) from MGT01SRE_SS and MGTSRE06SRE_MG respectively (see Table 1) both from waste dump/topsoil pile (Figure 1).

Euagridae sp. H-EC E03*

A distinct lineage, containing specimens RB39 & RB42 (**H-EC_E03***) from MGT10SRE_SS (Table 1) from both outside the study area, and MGT09SRE_MG in the waste dump/topsoil pile respectively (Figure 1). This lineage shows approximately 5.0 % molecular sequence divergence from lineage 1 (Table 6). This level of sequence divergence falls into a grey area, showing more variation than is typical within a single species, but less than is typically seen between species. The two lineages also show a close relationship to the reference species Euagridae sp. D3, differing by up to almost 7 %. Both Harvey *et al.* (2012) and Castalanelli *et al.* (2014) have shown that some distinct species of mygalomorphs do contain similarly elevated levels of genetic variation, however further work, assessing morphological variation among males from the three groups is required in order to determine species boundaries between the three lineages. Nevertheless, the distinct genetic lineages, regardless of species status, may represent evolutionarily significant genetic variation.

Euagridae *Cethegus* sp. H-ED_E04*

A distinct lineage containing specimen RB38 (**H-ED_E04***) from MGT05SRE_SS (Table 1) from within the study area (Figure 1) shows no close relationship to other reference specimens, and thus appears to be a new species, based on the material available for comparison.

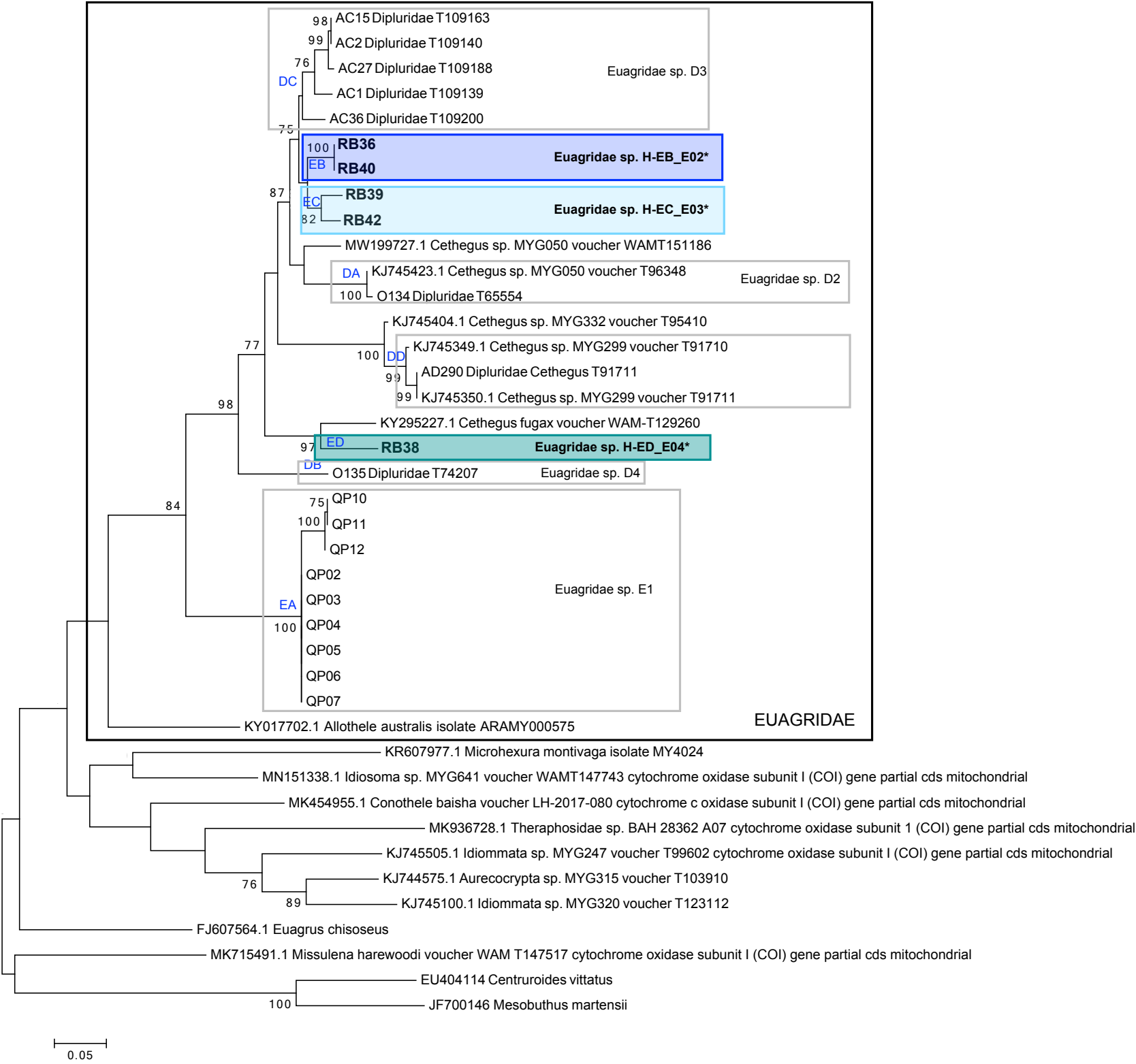


Figure 4: Maximum Likelihood analysis of COI mtDNA sequences, showing the placement of the Mt Gibson Euagridae specimens ('RB' prefix), within the taxonomic framework of the family Euagridae, including 18 reference specimens from GenBank and 18 from Helix. Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site).

Table 6: Molecular genetic p-distance and the associated standard error (**blue text**) among Mt Gibson and reference Eugaridae, as shown within the box in Figure 4.

Specimens in bold are those from Mt Gibson. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Mt Gibson Eugaridae Specimen	Eugaridae specimen comparison	p-dist	Std. Err
RB40	RB36	0.000000	0.000000
RB42	RB39	0.037333	0.009790
RB36	AC1 Dipluridae T109139	0.045333	0.010743
RB36	AC15 Dipluridae T109163	0.045333	0.010743
RB36	AC2 Dipluridae T109140	0.045333	0.010743
RB40	AC1 Dipluridae T109139	0.045333	0.010743
RB40	AC15 Dipluridae T109163	0.045333	0.010743
RB40	AC2 Dipluridae T109140	0.045333	0.010743
RB36	AC36 Dipluridae T109200	0.050667	0.011325
RB40	AC36 Dipluridae T109200	0.050667	0.011325
RB39	RB36	0.050667	0.011325
RB40	RB39	0.050667	0.011325
RB39	AC36 Dipluridae T109200	0.053333	0.011603
RB42	RB36	0.053333	0.011603
RB42	RB40	0.053333	0.011603
RB36	AC27 Dipluridae T109188	0.053333	0.011603
RB40	AC27 Dipluridae T109188	0.053333	0.011603
RB42	AC1 Dipluridae T109139	0.053333	0.011603
RB42	AC15 Dipluridae T109163	0.053333	0.011603
RB42	AC2 Dipluridae T109140	0.053333	0.011603
RB42	AC36 Dipluridae T109200	0.053333	0.011603
RB39	AC15 Dipluridae T109163	0.058667	0.012135
RB39	AC2 Dipluridae T109140	0.058667	0.012135
RB42	AC27 Dipluridae T109188	0.061333	0.012390
RB39	AC1 Dipluridae T109139	0.064000	0.012639
RB39	AC27 Dipluridae T109188	0.066667	0.012881
RB39	MW199727.1 <i>Cethegus</i> sp. MYG050 voucher WAMT151186	0.066667	0.012881
RB42	MW199727.1 <i>Cethegus</i> sp. MYG050 voucher WAMT151186	0.074667	0.013574
RB36	MW199727.1 <i>Cethegus</i> sp. MYG050 voucher	0.077333	0.013794

Mt Gibson Euagridae Specimen	Euagridae specimen comparison	p-dist	Std. Err
	WAMT151186		
RB40	MW199727.1 <i>Cethegus</i> sp. MYG050 voucher WAMT151186	0.077333	0.013794
RB42	KJ745423.1 <i>Cethegus</i> sp. MYG050 voucher T96348	0.090667	0.014828
RB42	O134 Dipluridae T65554	0.090667	0.014828
RB36	KJ745423.1 <i>Cethegus</i> sp. MYG050 voucher T96348	0.093333	0.015022
RB36	O134 Dipluridae T65554	0.093333	0.015022
RB40	KJ745423.1 <i>Cethegus</i> sp. MYG050 voucher T96348	0.093333	0.015022
RB40	O134 Dipluridae T65554	0.093333	0.015022
RB38	KY295227.1 <i>Cethegus fugax</i> voucher WAM- T129260	0.096000	0.015213
RB39	O134 Dipluridae T65554	0.098667	0.015400
RB39	KJ745423.1 <i>Cethegus</i> sp. MYG050 voucher T96348	0.101333	0.015583
RB39	KJ745404.1 <i>Cethegus</i> sp. MYG332 voucher T95410	0.104000	0.015764
RB39	KY295227.1 <i>Cethegus fugax</i> voucher WAM- T129260	0.106667	0.015941
RB39	RB38	0.112000	0.016285
RB36	KJ745404.1 <i>Cethegus</i> sp. MYG332 voucher T95410	0.114667	0.016453
RB40	KJ745404.1 <i>Cethegus</i> sp. MYG332 voucher T95410	0.114667	0.016453
RB42	KJ745404.1 <i>Cethegus</i> sp. MYG332 voucher T95410	0.114667	0.016453
RB38	AC15 Dipluridae T109163	0.117333	0.016619
RB38	AC2 Dipluridae T109140	0.117333	0.016619
RB39	KJ745349.1 <i>Cethegus</i> sp. MYG299 voucher T91710	0.117333	0.016619
RB36	KY295227.1 <i>Cethegus fugax</i> voucher WAM- T129260	0.120000	0.016781
RB38	AC36 Dipluridae T109200	0.120000	0.016781
RB40	KY295227.1 <i>Cethegus fugax</i> voucher WAM- T129260	0.120000	0.016781
RB42	KY295227.1 <i>Cethegus fugax</i> voucher WAM- T129260	0.120000	0.016781
RB38	AC1 Dipluridae T109139	0.120000	0.016781

Mt Gibson Euagridae Specimen	Euagridae specimen comparison	p-dist	Std. Err
RB38	AC27 Dipluridae T109188	0.120000	0.016781
RB42	RB38	0.122667	0.016941
RB36	KJ745349.1 <i>Cethegus</i> sp. MYG299 voucher T91710	0.122667	0.016941
RB40	KJ745349.1 <i>Cethegus</i> sp. MYG299 voucher T91710	0.122667	0.016941
RB39	O135 Dipluridae T74207	0.125333	0.017098
RB39	AD290 Dipluridae <i>Cethegus</i> T91711	0.128000	0.017252
RB39	KJ745350.1 <i>Cethegus</i> sp. MYG299 voucher T91711	0.128000	0.017252
RB42	KJ745349.1 <i>Cethegus</i> sp. MYG299 voucher T91710	0.128000	0.017252
RB38	RB36	0.130667	0.017404
RB40	RB38	0.130667	0.017404
RB38	MW199727.1 <i>Cethegus</i> sp. MYG050 voucher WAMT151186	0.130667	0.017404
RB36	AD290 Dipluridae <i>Cethegus</i> T91711	0.133333	0.017554
RB36	KJ745350.1 <i>Cethegus</i> sp. MYG299 voucher T91711	0.133333	0.017554
RB40	AD290 Dipluridae <i>Cethegus</i> T91711	0.133333	0.017554
RB40	KJ745350.1 <i>Cethegus</i> sp. MYG299 voucher T91711	0.133333	0.017554
RB42	O135 Dipluridae T74207	0.133333	0.017554
RB36	O135 Dipluridae T74207	0.136000	0.017702
RB38	KJ745423.1 <i>Cethegus</i> sp. MYG050 voucher T96348	0.136000	0.017702
RB40	O135 Dipluridae T74207	0.136000	0.017702
RB42	AD290 Dipluridae <i>Cethegus</i> T91711	0.138667	0.017847
RB42	KJ745350.1 <i>Cethegus</i> sp. MYG299 voucher T91711	0.138667	0.017847
RB38	O134 Dipluridae T65554	0.141333	0.017989
RB38	O135 Dipluridae T74207	0.141333	0.017989

4.1.3 Family Barychelidae

The family Barychelidae is one of two 'brush-footed' trapdoor spider families in Australia (Raven, 1990). The family is found throughout tropical and subtropical Australia (Raven, 1990). Of all the mygalomorphae, the Barychelidae are some of the most cryptic (Raven, 1994). Globally, the Barychelidae show a far higher diversity in the Pacific than elsewhere (Raven, 1994). Their burrows vary from temporary silk cells to complex burrows with concealed doors; most are not very deep (i.e. more than 40cm) (Raven, 1994). Burrows are found in a variety of habitats and no genus appears to be found exclusively in a dingle habitat (Raven, 1994). From a morphologically taxonomic perspective there are some shared characters between the families, including the presence of clavate trichobothria on the tarsi of both Theraphosidae and some Barychelidae spiders (Guadanucci, 2012). Patterns of the morphological characters can be used in cladistics analysis, with some genera comprising a monophyletic group, possessing synapomorphic characters (Guadanucci, 2012).

Two specimens from Mt. Gibson (RB33 & RB35) from two sites (MGT02SRE_MG and MGT07SRE_MG; Table 1) were assigned to the family Barychelidae on the basis of morphology.

Reference Specimens and Outgroups

The two Mt Gibson specimens (RB33 & RB35) were analysed with a total of 53 reference specimens. This total included 48 belonging to the family Barychelidae, as well as three representatives of the family Theraphosidae (25 from the Helix database and 26 from GenBank) in addition to the outgroups *Centuroides vittatus* (GenBank Accession # EU404114), and *Mesobuthus martensii* (GenBank Accession # JF00146) all obtained from GenBank.

Phylogenetic Analyses

Both Mt Gibson specimens align with reference specimens in the family Barychelidae from both the Helix database and from GenBank, supporting the morphological identification (Table 1, Figure 5). The two Mt. Gibson specimens RB35 and RB33 were placed in two separate lineages (B50* and B51*, respectively) that contained no other reference specimens (Figure 5). Specimen RB33/B51 was placed in a well-supported clade containing four reference specimens, two of which were GenBank specimens of *Idiomata* sp. MYG320 (Figure 5). Specimen RB35/B50 was placed in a clade that was not well supported, containing reference specimens of *Aureocrypta* sp. MYG316 (Figure 5).

Differentiation within and between lineages

The two Barychelidae specimens (RB33 & RB35) show 12.56 % molecular sequence divergence from one another at the COI mtDNA gene (Table 7). Specimen RB33 differed from the reference specimens of *Idiomata* sp. MYG320 by between 4.4 % and 6.8% sequence divergence (Table 7). Specimen RB35 differed from the reference specimens of *Aureocrypta* sp. MYG316 by between 11.2 % and 12.0% sequence divergence (Table 7).

Conclusions

Two distinct lineages of Barychelidae were detected from the Mt. Gibson survey area, B50 and B51, neither of which has been detected previously according to the molecular data available for comparison. They may represent between one and two new species. Specifically, while lineage B50 is highly divergent from the reference specimens and represents a new species, lineage B51 showed a relatively close relationship to the previously recorded species *Idiomata* sp. MYG320 and their relationship requires further investigation.

Barychelidae

Aureocrypta sp. B50*

Represented by specimen RB35 from MGT07SRE_MG (Table 1) from within the study area (Figure 1) and showing a high level of sequence divergence from the reference specimens, suggesting it is a new species.

Idiomata sp. B51*

Represented by specimen RB33 from MGTSRE02_SS (Table 1) from within the study area (Figure 1). This lineage shows a close relationship with the previously detected *Idiomata* sp. MYG320, differing by between 4 % and 7 %. This level of sequence divergence falls into a grey area, showing more variation than is typical within a single species, but less than is typically seen between species. Both Harvey *et al.* (2012) and Castalanelli *et al.* (2014) have shown that some distinct species of mygalomorphs do contain similarly elevated levels of genetic variation, however further work, assessing morphological variation among males from the two groups is required in order to determine species boundaries between the two lineages. Nevertheless, the distinct genetic lineages, regardless of species status, may represent evolutionarily significant genetic variation.

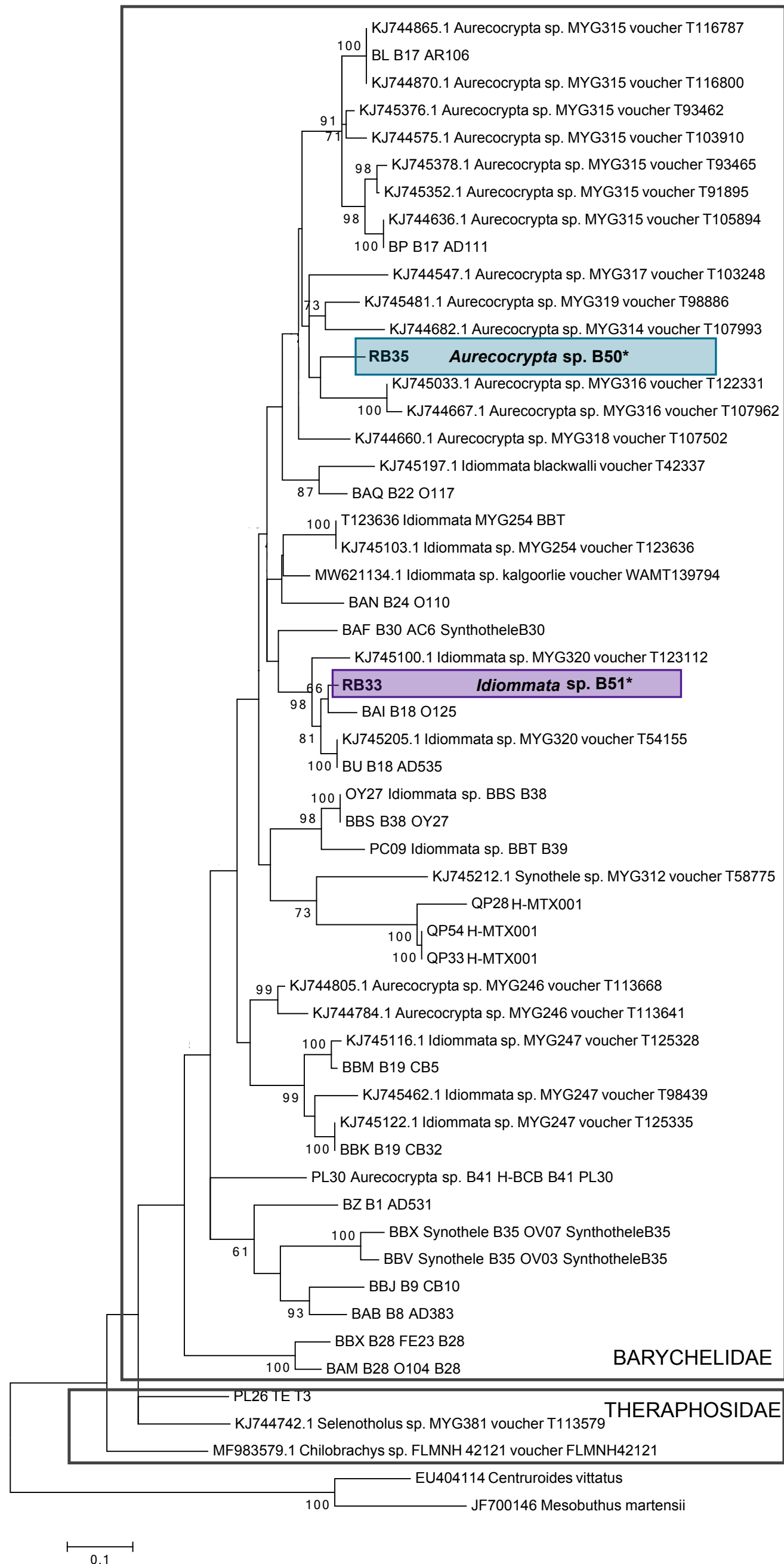


Figure 5: Maximum Likelihood analysis of COI mtDNA sequences, showing the placement of the two Barychelidae mygalomorphae Mt Gibson specimens ('RB' prefix), within the taxonomic framework of the family Barychelidae, including 48 reference specimens belonging to the family Barychelidae

Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site)

Table 7: Mt Gibson Barychelidae p-distance and the associated standard error (blue text) from reference specimens showing less than 15 % sequence divergence.

Specimens and lineages in bold text represent specimens from the current survey. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Helix Specimen	Reference Specimen	P-distance	Std. Err
RB33	BU B18 AD535	0.044503	0.010551
RB33	KJ745205.1 <i>Idiommatata</i> sp. MYG320 voucher T54155	0.044503	0.010551
RB33	BAI B18 O125	0.049738	0.011123
RB33	KJ745100.1 <i>Idiommatata</i> sp. MYG320 voucher T123112	0.068063	0.012886
RB35	MW621134.1 <i>Idiommatata</i> sp. kalgoorlie voucher WAMT139794	0.099476	0.015314
RB33	BAQ B22 O117	0.102094	0.015491
RB35	KJ745352.1 <i>Aurecocypta</i> sp. MYG315 voucher T91895	0.102094	0.015491
RB33	MW621134.1 <i>Idiommatata</i> sp. kalgoorlie voucher WAMT139794	0.104712	0.015666
RB35	KJ745376.1 <i>Aurecocypta</i> sp. MYG315 voucher T93462	0.104712	0.015666
RB35	KJ745481.1 <i>Aurecocypta</i> sp. MYG319 voucher T98886	0.104712	0.015666
RB33	BAF B30 AC6 <i>Synthothele</i> B30	0.107330	0.015837
RB35	BAN B24 O110	0.107330	0.015837
RB33	BAN B24 O110	0.109948	0.016005
RB35	BL B17 AR106	0.109948	0.016005
RB35	KJ744865.1 <i>Aurecocypta</i> sp. MYG315 voucher T116787	0.109948	0.016005
RB35	KJ744870.1 <i>Aurecocypta</i> sp. MYG315 voucher T116800	0.109948	0.016005
RB35	BAQ B22 O117	0.112565	0.016171
RB33	BBS B38 OY27	0.112565	0.016171
RB33	BP B17 AD111	0.112565	0.016171
RB33	KJ744636.1 <i>Aurecocypta</i> sp. MYG315 voucher T105894	0.112565	0.016171
RB33	KJ745376.1 <i>Aurecocypta</i> sp. MYG315 voucher T93462	0.112565	0.016171
RB33	KJ745378.1 <i>Aurecocypta</i> sp. MYG315 voucher T93465	0.112565	0.016171

Helix Specimen	Reference Specimen	P-distance	Std. Err
RB33	OY27 <i>Idiommata</i> sp. BBS B38	0.112565	0.016171
RB35	KJ745033.1 <i>Aureocrypta</i> sp. MYG316 voucher T122331	0.112565	0.016171
RB33	KJ744805.1 <i>Aureocrypta</i> sp. MYG246 voucher T113668	0.115183	0.016334
RB35	KJ745378.1 <i>Aureocrypta</i> sp. MYG315 voucher T93465	0.115183	0.016334
RB33	KJ745103.1 <i>Idiommata</i> sp. MYG254 voucher T123636	0.117801	0.016494
RB33	KJ745352.1 <i>Aureocrypta</i> sp. MYG315 voucher T91895	0.117801	0.016494
RB33	T123636 <i>Idiommata</i> MYG254 BBT	0.117801	0.016494
RB35	KJ744660.1 <i>Aureocrypta</i> sp. MYG318 voucher T107502	0.120419	0.016652
RB35	KJ744667.1 <i>Aureocrypta</i> sp. MYG316 voucher T107962	0.120419	0.016652
RB33	KJ744575.1 <i>Aureocrypta</i> sp. MYG315 voucher T103910	0.123037	0.016806
RB35	KJ744547.1 <i>Aureocrypta</i> sp. MYG317 voucher T103248	0.123037	0.016806
RB35	KJ744575.1 <i>Aureocrypta</i> sp. MYG315 voucher T103910	0.123037	0.016806
RB35	KJ745103.1 <i>Idiommata</i> sp. MYG254 voucher T123636	0.123037	0.016806
RB35	T123636 <i>Idiommata</i> MYG254 BBT	0.123037	0.016806
RB35	BP B17 AD111	0.123037	0.016806
RB35	KJ744636.1 <i>Aureocrypta</i> sp. MYG315 voucher T105894	0.123037	0.016806
RB35	RB33	0.125654	0.016959
RB33	KJ744547.1 <i>Aureocrypta</i> sp. MYG317 voucher T103248	0.125654	0.016959
RB33	BL B17 AR106	0.128272	0.017109
RB33	KJ744784.1 <i>Aureocrypta</i> sp. MYG246 voucher T113641	0.128272	0.017109
RB33	KJ744865.1 <i>Aureocrypta</i> sp. MYG315 voucher T116787	0.128272	0.017109
RB33	KJ744870.1 <i>Aureocrypta</i> sp. MYG315 voucher T116800	0.128272	0.017109
RB33	KJ745197.1 <i>Idiommata blackwalli</i> voucher T42337	0.128272	0.017109
RB33	KJ744660.1 <i>Aureocrypta</i> sp. MYG318 voucher	0.130890	0.017257

Helix Specimen	Reference Specimen	P-distance	Std. Err
	T107502		
RB33	KJ744667.1 <i>Aureocrypta</i> sp. MYG316 voucher T107962	0.130890	0.017257
RB35	KJ744784.1 <i>Aureocrypta</i> sp. MYG246 voucher T113641	0.130890	0.017257
RB35	KJ744805.1 <i>Aureocrypta</i> sp. MYG246 voucher T113668	0.130890	0.017257
RB35	KJ745462.1 <i>Idiommatata</i> sp. MYG247 voucher T98439	0.130890	0.017257
RB35	BAI B18 O125	0.133508	0.017402
RB35	BBK B19 CB32	0.133508	0.017402
RB35	KJ744682.1 <i>Aureocrypta</i> sp. MYG314 voucher T107993	0.133508	0.017402
RB35	KJ745122.1 <i>Idiommatata</i> sp. MYG247 voucher T125335	0.133508	0.017402
RB35	BU B18 AD535	0.136126	0.017545
RB35	KJ745205.1 <i>Idiommatata</i> sp. MYG320 voucher T54155	0.136126	0.017545
RB33	KJ745033.1 <i>Aureocrypta</i> sp. MYG316 voucher T122331	0.138743	0.017686
RB35	BAF B30 AC6 <i>Synthothele</i> B30	0.138743	0.017686
RB35	BBM B19 CB5	0.138743	0.017686
RB35	KJ745116.1 <i>Idiommatata</i> sp. MYG247 voucher T125328	0.138743	0.017686
RB35	KJ745197.1 <i>Idiommatata blackwalli</i> voucher T42337	0.138743	0.017686
RB33	PC09 <i>Idiommatata</i> sp. BBT B39	0.141361	0.017825
RB35	PC09 <i>Idiommatata</i> sp. BBT B39	0.141361	0.017825
RB33	BAB B8 AD383	0.146597	0.018097
RB33	BBM B19 CB5	0.146597	0.018097
RB33	KJ745116.1 <i>Idiommatata</i> sp. MYG247 voucher T125328	0.146597	0.018097
RB33	BBK B19 CB32	0.149215	0.018230
RB33	BBX <i>Synthothele</i> B35 OV07 <i>Synthothele</i> B35	0.149215	0.018230
RB33	KJ745122.1 <i>Idiommatata</i> sp. MYG247 voucher T125335	0.149215	0.018230

4.1.4 Family Idiopidae

The spiny trap-door spiders (Idiopidae) encompass the Australasian endemic subfamily Arbanitinae (Rix *et al.*, 2017a; 2017b). The family has a distribution consistent with the former gondwanan land masses, they are largely undescribed at the species level and have a confusing taxonomic history at the generic level (Rix *et al.*, 2017a). Taxonomic revisions using molecular data in this family have highlighted the need for a multigene approach for some species (Wilson *et al.*, 2019). Previous discussions with Dr Mike Rix (Queensland Museum) principal author of the *Gaius* revision (Rix *et al.*, 2018), which was based on a multi-gene approach, have resulted in the decision to sequence both COI and CYB mtDNA genes as a standard for Idiopidae specimens.

Reference Specimens and Outgroups

Five specimens from Mt Gibson were assigned to the family Idiopidae on the basis of morphology (RB46, RB47, RB43, RB44) (Table 1). The five specimens were analysed initially with 191 reference specimens belonging to the family Idiopidae. This reference dataset was then reduced to those that showed informative relationships with the Mt Gibson specimens, and resulted in 94 specimens of *Idiosoma* spp, six from the Helix database and 88 from GenBank as well as the outgroups *Centuroides vittatus* (GenBank Accession # EU404114), and *Mesobuthus martensii* (GenBank Accession # JF00146) all obtained from GenBank.

Phylogenetic Analyses

The five Mt Gibson specimens of Idiopidae were placed in two distinct lineages (Figure 6). Four idiopid specimens from Mt Gibson align with each other and were all placed in a lineage containing a reference specimen of *Idiosoma kopejtkarorum* with high statistical support (Figure 6). The species has been recorded previously from the Buntine Nature Reserve, Western Australia. The remaining Mt Gibson specimen aligns with the *Idiosoma* sp. MYG222 species (Figure 6) known from the Goomalling-Merridan region.

Differentiation within and between lineages

The Idiopidae from Mt Gibson showed between 0.00 % to 15.2 % molecular sequence divergence from one another (Table 8). Four of the specimens (RB43, RB44, RB46 & RB47) show only 0.0 % to 1.3 % molecular sequence divergence from one another, and between 2.7 % and 4.2 % divergence from the reference specimens of *Idiosoma kopejtkarorum*. The remaining idiopid Mt Gibson specimen, RB45, shows 14.4 % to 15.2 % from the aforementioned four specimens but between 2.4% and 3.2% sequence divergence from reference specimens of MYG222 (Table 8).

Conclusions

The five specimens were placed in two distinct lineages, which represent two distinct species of *Idiosoma*, both of which have been recorded previously.

Idiopidae

Idiosoma kopejtkorum

Four specimens were placed with the previously described species *Idiosoma kopejtkorum*. The species was recorded on four occasions during the Mt Gibson survey, RB43 (MGT02SRE_RD), RB44 (MGT02SRE_RD), RB46 (MGT01SRE_SSMG), RB47 (MGT10SRE_MG) from a total of three sites (Table 1, Figure 1).

Idiosoma sp. MYG222

One specimen (RB45) was placed with the previously detected species *Idiosoma* sp. MYG222. It was recorded on one occasion from MGT03SRE_RD during the Mt Gibson survey (Table 1, Figure 1).

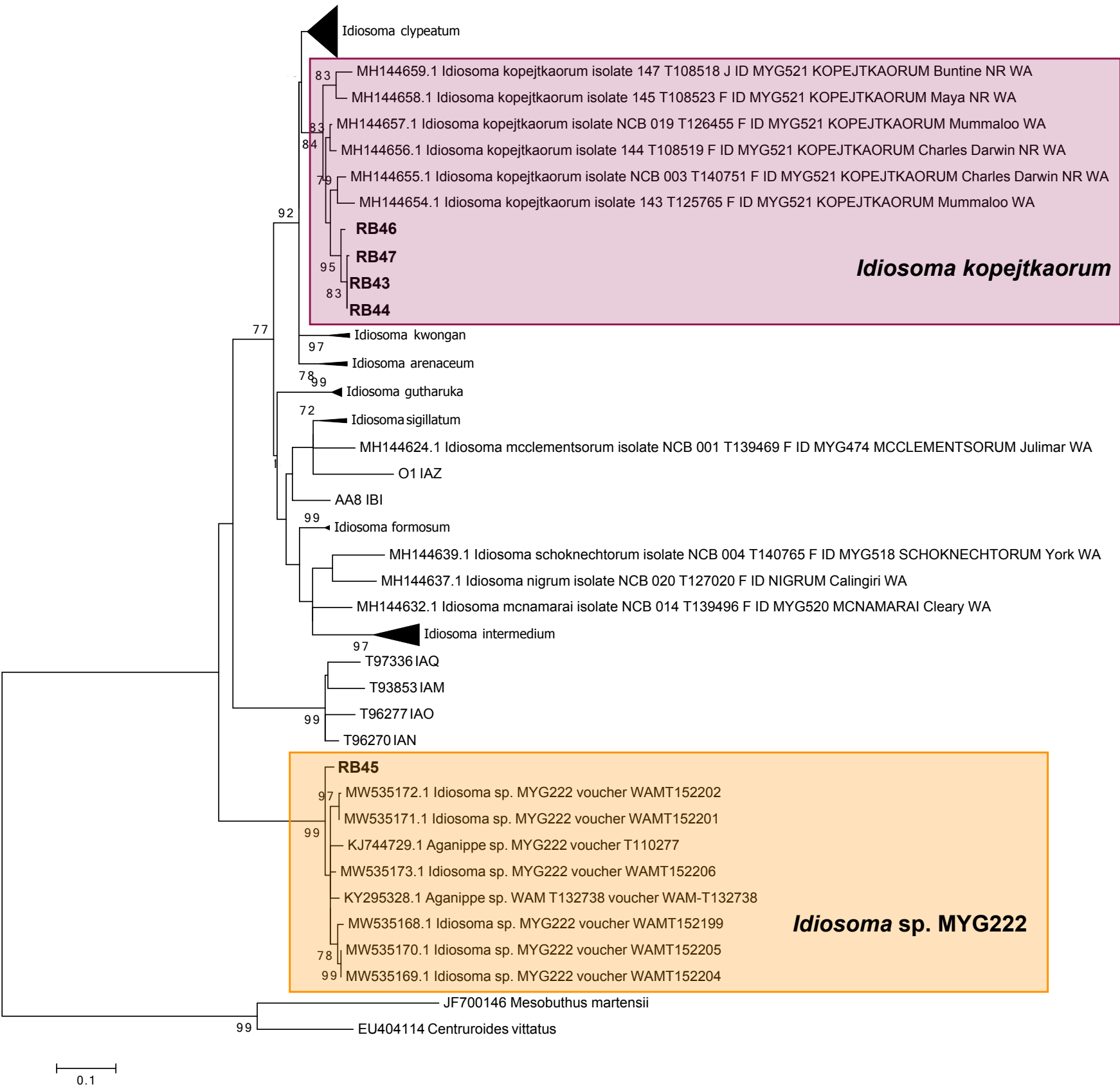


Figure 6: Maximum Likelihood analysis of 94 COI mtDNA sequences, showing the placement of the Mt Gibson Idiopidae specimens (‘RB’ prefix), within the taxonomic framework of the family Idiopidae, including 88 reference specimens from Genbank and six from the Helix database. Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site).

Table 8: Mt Gibson Idiopidae p-distance and the associated standard error (blue text).

Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Mt Gibson Specimen	Mt Gibson specimen	p-distance	Std. Err
RB44	RB45	0.144385	0.018175
RB45	RB46	0.152406	0.018585
RB45	RB47	0.141711	0.018034
RB43	RB45	0.144385	0.018175

Table 9: Mt Gibson Idiopidae p-distance and the associated standard error (blue text) from reference specimens showing less than 15 % sequence divergence.

Specimens and lineages in bold text represent specimens from the current survey. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
RB43	RB44	0.000000	0.000000
RB43	RB44	0.000000	0.000000
RB43	RB47	0.002674	0.002670
RB44	RB47	0.002674	0.002670
RB43	RB47	0.002674	0.002670
RB44	RB47	0.002674	0.002670
RB43	RB46	0.013369	0.005939
RB44	RB46	0.013369	0.005939
RB43	RB46	0.013369	0.005939
RB44	RB46	0.013369	0.005939
RB46	RB47	0.016043	0.006497
RB46	RB47	0.016043	0.006497
RB45	MW535173.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152206	0.024064	0.007924
RB47	MH144657.1 <i>Idiosoma kopejtkorum</i> isolate NCB 019 T126455 F ID MYG521 KOPEJTKAORUM Mummalo WA	0.026738	0.008341
RB43	MH144657.1 <i>Idiosoma kopejtkorum</i> isolate NCB 019 T126455 F ID MYG521 KOPEJTKAORUM Mummalo WA	0.029412	0.008737
RB44	MH144657.1 <i>Idiosoma kopejtkorum</i> isolate NCB 019 T126455 F ID MYG521 KOPEJTKAORUM Mummalo WA	0.029412	0.008737
RB45	MW535169.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152204	0.032086	0.009112
RB45	MW535170.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152205	0.032086	0.009112
RB45	MW535172.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152202	0.032086	0.009112
RB46	MH144657.1 <i>Idiosoma kopejtkorum</i> isolate NCB 019 T126455 F ID MYG521 KOPEJTKAORUM Mummalo WA	0.032086	0.009112
RB47	MH144656.1 <i>Idiosoma kopejtkorum</i> isolate 144 T108519 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.032086	0.009112
RB43	MH144656.1 <i>Idiosoma kopejtkorum</i> isolate 144 T108519 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.034759	0.009471
RB44	MH144656.1 <i>Idiosoma kopejtkorum</i> isolate 144 T108519 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.034759	0.009471
RB45	KJ744729.1 <i>Aganippe</i> sp. MYG222 voucher T110277	0.034759	0.009471
RB45	KY295328.1 <i>Aganippe</i> sp. WAM T132738 voucher WAM-T132738	0.034759	0.009471
RB45	MW535168.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152199	0.034759	0.009471
RB45	MW535171.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152201	0.034759	0.009471
RB46	MH144655.1 <i>Idiosoma kopejtkorum</i> isolate NCB 003 T140751	0.037433	0.009815

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
	F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA		
RB46	MH144656.1 <i>Idiosoma kopejtkorum</i> isolate 144 T108519 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.037433	0.009815
RB47	MH144655.1 <i>Idiosoma kopejtkorum</i> isolate NCB 003 T140751 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.037433	0.009815
RB43	MH144655.1 <i>Idiosoma kopejtkorum</i> isolate NCB 003 T140751 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.040107	0.010146
RB44	MH144655.1 <i>Idiosoma kopejtkorum</i> isolate NCB 003 T140751 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.040107	0.010146
RB46	MH144654.1 <i>Idiosoma kopejtkorum</i> isolate 143 T125765 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.042781	0.010464
RB47	MH144654.1 <i>Idiosoma kopejtkorum</i> isolate 143 T125765 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.042781	0.010464
RB47	MH144644.1 <i>Idiosoma clypeatum</i> isolate 137 T78252 F ID MYG018 CLYPEATUM Coolcalalaya WA	0.042781	0.010464
RB43	MH144644.1 <i>Idiosoma clypeatum</i> isolate 137 T78252 F ID MYG018 CLYPEATUM Coolcalalaya WA	0.045455	0.010771
RB43	MH144654.1 <i>Idiosoma kopejtkorum</i> isolate 143 T125765 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.045455	0.010771
RB44	MH144644.1 <i>Idiosoma clypeatum</i> isolate 137 T78252 F ID MYG018 CLYPEATUM Coolcalalaya WA	0.045455	0.010771
RB44	MH144654.1 <i>Idiosoma kopejtkorum</i> isolate 143 T125765 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.045455	0.010771
RB47	MH144649.1 <i>Idiosoma clypeatum</i> isolate 139 T108030 F ID MYG018 CLYPEATUM Lakeside Stn WA	0.045455	0.010771
RB47	MH144658.1 <i>Idiosoma kopejtkorum</i> isolate 145 T108523 F ID MYG521 KOPEJTKAORUM Maya NR WA	0.048128	0.011068
RB43	MH144649.1 <i>Idiosoma clypeatum</i> isolate 139 T108030 F ID MYG018 CLYPEATUM Lakeside Stn WA	0.048128	0.011068
RB44	MH144649.1 <i>Idiosoma clypeatum</i> isolate 139 T108030 F ID MYG018 CLYPEATUM Lakeside Stn WA	0.048128	0.011068
RB43	MH144658.1 <i>Idiosoma kopejtkorum</i> isolate 145 T108523 F ID MYG521 KOPEJTKAORUM Maya NR WA	0.050802	0.011355
RB44	MH144658.1 <i>Idiosoma kopejtkorum</i> isolate 145 T108523 F ID MYG521 KOPEJTKAORUM Maya NR WA	0.050802	0.011355
RB46	MH144644.1 <i>Idiosoma clypeatum</i> isolate 137 T78252 F ID MYG018 CLYPEATUM Coolcalalaya WA	0.050802	0.011355
RB46	MH144658.1 <i>Idiosoma kopejtkorum</i> isolate 145 T108523 F ID MYG521 KOPEJTKAORUM Maya NR WA	0.050802	0.011355
RB46	MH144649.1 <i>Idiosoma clypeatum</i> isolate 139 T108030 F ID MYG018 CLYPEATUM Lakeside Stn WA	0.050802	0.011355
RB46	MH144659.1 <i>Idiosoma kopejtkorum</i> isolate 147 T108518 J ID MYG521 KOPEJTKAORUM Buntine NR WA	0.053476	0.011633
RB47	MH144659.1 <i>Idiosoma kopejtkorum</i> isolate 147 T108518 J ID MYG521 KOPEJTKAORUM Buntine NR WA	0.053476	0.011633
RB43	MH144659.1 <i>Idiosoma kopejtkorum</i> isolate 147 T108518 J ID MYG521 KOPEJTKAORUM Buntine NR WA	0.056150	0.011904
RB44	MH144659.1 <i>Idiosoma kopejtkorum</i> isolate 147 T108518 J ID MYG521 KOPEJTKAORUM Buntine NR WA	0.056150	0.011904
RB46	MH144652.1 <i>Idiosoma clypeatum</i> isolate 140 T108517 F ID MYG018 CLYPEATUM Dalgaranga Stn WA	0.056150	0.011904
RB47	MH144653.1 <i>Idiosoma clypeatum</i> isolate 125 T117996 F ID MYG018 CLYPEATUM Blue Hill Rg WA	0.056150	0.011904
RB47	MT040947.1 <i>Idiosoma clypeatum</i> voucher WAMT147955	0.056150	0.011904
RB43	MH144653.1 <i>Idiosoma clypeatum</i> isolate 125 T117996 F ID MYG018 CLYPEATUM Blue Hill Rg WA	0.058824	0.012167
RB43	MT040947.1 <i>Idiosoma clypeatum</i> voucher WAMT147955	0.058824	0.012167
RB44	MH144653.1 <i>Idiosoma clypeatum</i> isolate 125 T117996 F ID	0.058824	0.012167

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
	MYG018 CLYPEATUM Blue Hill Rg WA		
RB44	MT040947.1 <i>Idiosoma clypeatum</i> voucher WAMT147955	0.058824	0.012167
RB46	MH144653.1 <i>Idiosoma clypeatum</i> isolate 125 T117996 F ID MYG018 CLYPEATUM Blue Hill Rg WA	0.058824	0.012167
RB46	MT040947.1 <i>Idiosoma clypeatum</i> voucher WAMT147955	0.058824	0.012167
RB47	MT040946.1 <i>Idiosoma clypeatum</i> voucher WAMT147954	0.058824	0.012167
RB43	MT040946.1 <i>Idiosoma clypeatum</i> voucher WAMT147954	0.061497	0.012423
RB44	MT040946.1 <i>Idiosoma clypeatum</i> voucher WAMT147954	0.061497	0.012423
RB46	MT040946.1 <i>Idiosoma clypeatum</i> voucher WAMT147954	0.061497	0.012423
RB47	MH144652.1 <i>Idiosoma clypeatum</i> isolate 140 T108517 F ID MYG018 CLYPEATUM Dalgara Stn WA	0.061497	0.012423
RB47	MH144646.1 <i>Idiosoma clypeatum</i> isolate 132 T107368 M ID MYG018 CLYPEATUM Glen Stn WA	0.064171	0.012672
RB43	MH144652.1 <i>Idiosoma clypeatum</i> isolate 140 T108517 F ID MYG018 CLYPEATUM Dalgara Stn WA	0.064171	0.012672
RB44	MH144652.1 <i>Idiosoma clypeatum</i> isolate 140 T108517 F ID MYG018 CLYPEATUM Dalgara Stn WA	0.064171	0.012672
RB46	MH144647.1 <i>Idiosoma clypeatum</i> isolate NCB 021 T136250 F ID MYG018 CLYPEATUM Boolardy Stn WA	0.064171	0.012672
RB46	MH144648.1 <i>Idiosoma clypeatum</i> isolate NCB 022 T136252 M ID MYG018 CLYPEATUM Jack Hills WA	0.064171	0.012672
RB46	MW621094.1 <i>Idiosoma clypeatum</i> voucher WAMT136250	0.064171	0.012672
RB46	MW621095.1 <i>Idiosoma clypeatum</i> voucher WAMT136251	0.064171	0.012672
RB46	MW621096.1 <i>Idiosoma nigrum</i> voucher WAMT136252	0.064171	0.012672
RB47	MH144645.1 <i>Idiosoma clypeatum</i> isolate 138 T108032 F ID MYG018 CLYPEATUM Woolgorong WA	0.064171	0.012672
RB46	MH144651.1 <i>Idiosoma clypeatum</i> isolate 142 T110279 J ID MYG018 CLYPEATUM Kadi Kadi WA	0.066845	0.012914
RB47	MH144647.1 <i>Idiosoma clypeatum</i> isolate NCB 021 T136250 F ID MYG018 CLYPEATUM Boolardy Stn WA	0.066845	0.012914
RB47	MH144648.1 <i>Idiosoma clypeatum</i> isolate NCB 022 T136252 M ID MYG018 CLYPEATUM Jack Hills WA	0.066845	0.012914
RB47	MW621094.1 <i>Idiosoma clypeatum</i> voucher WAMT136250	0.066845	0.012914
RB47	MW621095.1 <i>Idiosoma clypeatum</i> voucher WAMT136251	0.066845	0.012914
RB47	MW621096.1 <i>Idiosoma nigrum</i> voucher WAMT136252	0.066845	0.012914
RB43	MH144645.1 <i>Idiosoma clypeatum</i> isolate 138 T108032 F ID MYG018 CLYPEATUM Woolgorong WA	0.066845	0.012914
RB43	MH144646.1 <i>Idiosoma clypeatum</i> isolate 132 T107368 M ID MYG018 CLYPEATUM Glen Stn WA	0.066845	0.012914
RB44	MH144645.1 <i>Idiosoma clypeatum</i> isolate 138 T108032 F ID MYG018 CLYPEATUM Woolgorong WA	0.066845	0.012914
RB44	MH144646.1 <i>Idiosoma clypeatum</i> isolate 132 T107368 M ID MYG018 CLYPEATUM Glen Stn WA	0.066845	0.012914
RB46	MH144646.1 <i>Idiosoma clypeatum</i> isolate 132 T107368 M ID MYG018 CLYPEATUM Glen Stn WA	0.066845	0.012914
RB47	MH144660.1 <i>Idiosoma kwongan</i> isolate NCB 007 T139468 M ID MYG472 KWONGAN Mt Lesueur	0.066845	0.012914
RB43	MH144647.1 <i>Idiosoma clypeatum</i> isolate NCB 021 T136250 F ID MYG018 CLYPEATUM Boolardy Stn WA	0.069519	0.013151
RB43	MH144648.1 <i>Idiosoma clypeatum</i> isolate NCB 022 T136252 M ID MYG018 CLYPEATUM Jack Hills WA	0.069519	0.013151
RB43	MH144660.1 <i>Idiosoma kwongan</i> isolate NCB 007 T139468 M ID MYG472 KWONGAN Mt Lesueur	0.069519	0.013151
RB43	MW621094.1 <i>Idiosoma clypeatum</i> voucher WAMT136250	0.069519	0.013151
RB43	MW621095.1 <i>Idiosoma clypeatum</i> voucher WAMT136251	0.069519	0.013151
RB43	MW621096.1 <i>Idiosoma nigrum</i> voucher WAMT136252	0.069519	0.013151
RB44	MH144647.1 <i>Idiosoma clypeatum</i> isolate NCB 021 T136250 F ID MYG018 CLYPEATUM Boolardy Stn WA	0.069519	0.013151

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
RB44	MH144648.1 <i>Idiosoma clypeatum</i> isolate NCB 022 T136252 M ID MYG018 CLYPEATUM Jack Hills WA	0.069519	0.013151
RB44	MH144660.1 <i>Idiosoma kwongan</i> isolate NCB 007 T139468 M ID MYG472 KWONGAN Mt Lesueur	0.069519	0.013151
RB44	MW621094.1 <i>Idiosoma clypeatum</i> voucher WAMT136250	0.069519	0.013151
RB44	MW621095.1 <i>Idiosoma clypeatum</i> voucher WAMT136251	0.069519	0.013151
RB44	MW621096.1 <i>Idiosoma nigrum</i> voucher WAMT136252	0.069519	0.013151
RB46	MH144660.1 <i>Idiosoma kwongan</i> isolate NCB 007 T139468 M ID MYG472 KWONGAN Mt Lesueur	0.069519	0.013151
RB47	MH144640.1 <i>Idiosoma clypeatum</i> isolate 126 T96452 M ID MYG018 CLYPEATUM Albion Downs WA	0.069519	0.013151
RB47	MH144662.1 <i>Idiosoma arenaceum</i> isolate NCB 006 T141118 F ID MYG478 ARENACEUM Kalbarri WA	0.069519	0.013151
RB47	MH144663.1 <i>Idiosoma arenaceum</i> isolate NCB 017 T41364 M ID MYG478 ARENACEUM Zuytdorp WA	0.069519	0.013151
RB43	MH144640.1 <i>Idiosoma clypeatum</i> isolate 126 T96452 M ID MYG018 CLYPEATUM Albion Downs WA	0.072193	0.013383
RB43	MH144663.1 <i>Idiosoma arenaceum</i> isolate NCB 017 T41364 M ID MYG478 ARENACEUM Zuytdorp WA	0.072193	0.013383
RB44	MH144640.1 <i>Idiosoma clypeatum</i> isolate 126 T96452 M ID MYG018 CLYPEATUM Albion Downs WA	0.072193	0.013383
RB44	MH144663.1 <i>Idiosoma arenaceum</i> isolate NCB 017 T41364 M ID MYG478 ARENACEUM Zuytdorp WA	0.072193	0.013383
RB47	MH144641.1 <i>Idiosoma clypeatum</i> isolate 136 T110581 F ID MYG018 CLYPEATUM Yakabindie WA	0.072193	0.013383
RB47	MH144642.1 <i>Idiosoma clypeatum</i> isolate 135 T103475 F ID MYG018 CLYPEATUM Yeelirrie WA	0.072193	0.013383
RB47	MH144651.1 <i>Idiosoma clypeatum</i> isolate 142 T110279 J ID MYG018 CLYPEATUM Kadji Kadji WA	0.072193	0.013383
RB43	MH144662.1 <i>Idiosoma arenaceum</i> isolate NCB 006 T141118 F ID MYG478 ARENACEUM Kalbarri WA	0.072193	0.013383
RB44	MH144662.1 <i>Idiosoma arenaceum</i> isolate NCB 006 T141118 F ID MYG478 ARENACEUM Kalbarri WA	0.072193	0.013383
RB46	MH144640.1 <i>Idiosoma clypeatum</i> isolate 126 T96452 M ID MYG018 CLYPEATUM Albion Downs WA	0.072193	0.013383
RB46	MH144642.1 <i>Idiosoma clypeatum</i> isolate 135 T103475 F ID MYG018 CLYPEATUM Yeelirrie WA	0.072193	0.013383
RB46	MH144645.1 <i>Idiosoma clypeatum</i> isolate 138 T108032 F ID MYG018 CLYPEATUM Woolgorong WA	0.072193	0.013383
RB46	MH144650.1 <i>Idiosoma clypeatum</i> isolate 141 T108516 F ID MYG018 CLYPEATUM Karara WA	0.072193	0.013383
RB43	MH144651.1 <i>Idiosoma clypeatum</i> isolate 142 T110279 J ID MYG018 CLYPEATUM Kadji Kadji WA	0.074866	0.013608
RB44	MH144651.1 <i>Idiosoma clypeatum</i> isolate 142 T110279 J ID MYG018 CLYPEATUM Kadji Kadji WA	0.074866	0.013608
RB46	MW621091.1 <i>Idiosoma clypeatum</i> voucher WAMT136247	0.074866	0.013608
RB46	MW621092.1 <i>Idiosoma clypeatum</i> voucher WAMT136248	0.074866	0.013608
RB46	MW621093.1 <i>Idiosoma clypeatum</i> voucher WAMT136249	0.074866	0.013608
RB43	MH144641.1 <i>Idiosoma clypeatum</i> isolate 136 T110581 F ID MYG018 CLYPEATUM Yakabindie WA	0.074866	0.013608
RB43	MH144642.1 <i>Idiosoma clypeatum</i> isolate 135 T103475 F ID MYG018 CLYPEATUM Yeelirrie WA	0.074866	0.013608
RB44	MH144641.1 <i>Idiosoma clypeatum</i> isolate 136 T110581 F ID MYG018 CLYPEATUM Yakabindie WA	0.074866	0.013608
RB44	MH144642.1 <i>Idiosoma clypeatum</i> isolate 135 T103475 F ID MYG018 CLYPEATUM Yeelirrie WA	0.074866	0.013608
RB46	MH144641.1 <i>Idiosoma clypeatum</i> isolate 136 T110581 F ID MYG018 CLYPEATUM Yakabindie WA	0.074866	0.013608

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
RB46	MH144662.1 <i>Idiosoma arenaceum</i> isolate NCB 006 T141118 F ID MYG478 ARENACEUM Kalbarri WA	0.077540	0.013829
RB47	MH144650.1 <i>Idiosoma clypeatum</i> isolate 141 T108516 F ID MYG018 CLYPEATUM Karara WA	0.077540	0.013829
RB43	MH144650.1 <i>Idiosoma clypeatum</i> isolate 141 T108516 F ID MYG018 CLYPEATUM Karara WA	0.080214	0.014045
RB44	MH144650.1 <i>Idiosoma clypeatum</i> isolate 141 T108516 F ID MYG018 CLYPEATUM Karara WA	0.080214	0.014045
RB46	MH144663.1 <i>Idiosoma arenaceum</i> isolate NCB 017 T41364 M ID MYG478 ARENACEUM Zuytdorp WA	0.080214	0.014045
RB47	MH144643.1 <i>Idiosoma clypeatum</i> isolate 160 T101942 F ID MYG018 CLYPEATUM Yeelirrie WA	0.080214	0.014045
RB47	MW621089.1 <i>Idiosoma clypeatum</i> voucher WAMT135961	0.080214	0.014045
RB47	MW621091.1 <i>Idiosoma clypeatum</i> voucher WAMT136247	0.080214	0.014045
RB47	MW621092.1 <i>Idiosoma clypeatum</i> voucher WAMT136248	0.080214	0.014045
RB47	MW621093.1 <i>Idiosoma clypeatum</i> voucher WAMT136249	0.080214	0.014045
RB43	MH144643.1 <i>Idiosoma clypeatum</i> isolate 160 T101942 F ID MYG018 CLYPEATUM Yeelirrie WA	0.082888	0.014257
RB43	MW621089.1 <i>Idiosoma clypeatum</i> voucher WAMT135961	0.082888	0.014257
RB43	MW621091.1 <i>Idiosoma clypeatum</i> voucher WAMT136247	0.082888	0.014257
RB43	MW621092.1 <i>Idiosoma clypeatum</i> voucher WAMT136248	0.082888	0.014257
RB43	MW621093.1 <i>Idiosoma clypeatum</i> voucher WAMT136249	0.082888	0.014257
RB44	MH144643.1 <i>Idiosoma clypeatum</i> isolate 160 T101942 F ID MYG018 CLYPEATUM Yeelirrie WA	0.082888	0.014257
RB44	MW621089.1 <i>Idiosoma clypeatum</i> voucher WAMT135961	0.082888	0.014257
RB44	MW621091.1 <i>Idiosoma clypeatum</i> voucher WAMT136247	0.082888	0.014257
RB44	MW621092.1 <i>Idiosoma clypeatum</i> voucher WAMT136248	0.082888	0.014257
RB44	MW621093.1 <i>Idiosoma clypeatum</i> voucher WAMT136249	0.082888	0.014257
RB46	MH144643.1 <i>Idiosoma clypeatum</i> isolate 160 T101942 F ID MYG018 CLYPEATUM Yeelirrie WA	0.082888	0.014257
RB46	MW621089.1 <i>Idiosoma clypeatum</i> voucher WAMT135961	0.082888	0.014257
RB47	MW621090.1 <i>Idiosoma clypeatum</i> voucher WAMT135962	0.082888	0.014257
RB43	MW621090.1 <i>Idiosoma clypeatum</i> voucher WAMT135962	0.085561	0.014464
RB44	MW621090.1 <i>Idiosoma clypeatum</i> voucher WAMT135962	0.085561	0.014464
RB46	MW621090.1 <i>Idiosoma clypeatum</i> voucher WAMT135962	0.085561	0.014464
RB47	MH144630.1 <i>Idiosoma formosum</i> isolate NCB 012 T139470 M ID MYG262 FORMOSUM Mt Gibson WA	0.085561	0.014464
RB43	MH144630.1 <i>Idiosoma formosum</i> isolate NCB 012 T139470 M ID MYG262 FORMOSUM Mt Gibson WA	0.088235	0.014667
RB44	MH144630.1 <i>Idiosoma formosum</i> isolate NCB 012 T139470 M ID MYG262 FORMOSUM Mt Gibson WA	0.088235	0.014667
RB47	MH144632.1 <i>Idiosoma mcnamarai</i> isolate NCB 014 T139496 F ID MYG520 MCNAMARAI Cleary WA	0.088235	0.014667
RB43	MH144632.1 <i>Idiosoma mcnamarai</i> isolate NCB 014 T139496 F ID MYG520 MCNAMARAI Cleary WA	0.090909	0.014865
RB44	MH144632.1 <i>Idiosoma mcnamarai</i> isolate NCB 014 T139496 F ID MYG520 MCNAMARAI Cleary WA	0.090909	0.014865
RB47	MH144661.1 <i>Idiosoma kwongan</i> isolate NCB 018 T27117 M ID MYG472 KWONGAN Eneabba WA	0.090909	0.014865
RB47	MT040952.1 <i>Idiosoma intermedium</i> voucher WAMT147960	0.090909	0.014865
RB43	MH144661.1 <i>Idiosoma kwongan</i> isolate NCB 018 T27117 M ID MYG472 KWONGAN Eneabba WA	0.093583	0.015060
RB43	MT040952.1 <i>Idiosoma intermedium</i> voucher WAMT147960	0.093583	0.015060
RB44	MH144661.1 <i>Idiosoma kwongan</i> isolate NCB 018 T27117 M ID MYG472 KWONGAN Eneabba WA	0.093583	0.015060
RB44	MT040952.1 <i>Idiosoma intermedium</i> voucher WAMT147960	0.093583	0.015060
RB46	MH144630.1 <i>Idiosoma formosum</i> isolate NCB 012 T139470 M ID MYG262 FORMOSUM Mt Gibson WA	0.096257	0.015251

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
RB47	MH144628.1 <i>Idiosoma formosum</i> isolate 159 T125751 F ID MYG262 FORMOSUM Mummaloo WA	0.096257	0.015251
RB47	MT040949.1 <i>Idiosoma intermedium</i> voucher WAMT147957	0.096257	0.015251
RB47	MT040950.1 <i>Idiosoma intermedium</i> voucher WAMT147958	0.096257	0.015251
RB47	MT040951.1 <i>Idiosoma intermedium</i> voucher WAMT147959	0.096257	0.015251
RB43	MH144628.1 <i>Idiosoma formosum</i> isolate 159 T125751 F ID MYG262 FORMOSUM Mummaloo WA	0.098930	0.015439
RB43	MT040949.1 <i>Idiosoma intermedium</i> voucher WAMT147957	0.098930	0.015439
RB43	MT040950.1 <i>Idiosoma intermedium</i> voucher WAMT147958	0.098930	0.015439
RB43	MT040951.1 <i>Idiosoma intermedium</i> voucher WAMT147959	0.098930	0.015439
RB44	MH144628.1 <i>Idiosoma formosum</i> isolate 159 T125751 F ID MYG262 FORMOSUM Mummaloo WA	0.098930	0.015439
RB44	MT040949.1 <i>Idiosoma intermedium</i> voucher WAMT147957	0.098930	0.015439
RB44	MT040950.1 <i>Idiosoma intermedium</i> voucher WAMT147958	0.098930	0.015439
RB44	MT040951.1 <i>Idiosoma intermedium</i> voucher WAMT147959	0.098930	0.015439
RB46	MH144632.1 <i>Idiosoma mcnamarai</i> isolate NCB 014 T139496 F ID MYG520 MCNAMARAI Cleary WA	0.098930	0.015439
RB46	MH144661.1 <i>Idiosoma kwongan</i> isolate NCB 018 T27117 M ID MYG472 KWONGAN Eneabba WA	0.098930	0.015439
RB47	MT040953.1 <i>Idiosoma intermedium</i> voucher WAMT147961	0.098930	0.015439
RB47	OK342108.1 <i>Idiosoma gutharuka</i> voucher WAMT155370	0.098930	0.015439
RB47	OK342109.1 <i>Idiosoma gutharuka</i> voucher WAMT155371	0.098930	0.015439
RB43	MT040953.1 <i>Idiosoma intermedium</i> voucher WAMT147961	0.101604	0.015623
RB43	OK342108.1 <i>Idiosoma gutharuka</i> voucher WAMT155370	0.101604	0.015623
RB43	OK342109.1 <i>Idiosoma gutharuka</i> voucher WAMT155371	0.101604	0.015623
RB44	MT040953.1 <i>Idiosoma intermedium</i> voucher WAMT147961	0.101604	0.015623
RB44	OK342108.1 <i>Idiosoma gutharuka</i> voucher WAMT155370	0.101604	0.015623
RB44	OK342109.1 <i>Idiosoma gutharuka</i> voucher WAMT155371	0.101604	0.015623
RB46	MH144628.1 <i>Idiosoma formosum</i> isolate 159 T125751 F ID MYG262 FORMOSUM Mummaloo WA	0.101604	0.015623
RB46	MT040949.1 <i>Idiosoma intermedium</i> voucher WAMT147957	0.104278	0.015803
RB46	MT040950.1 <i>Idiosoma intermedium</i> voucher WAMT147958	0.104278	0.015803
RB46	MT040951.1 <i>Idiosoma intermedium</i> voucher WAMT147959	0.104278	0.015803
RB46	MT040952.1 <i>Idiosoma intermedium</i> voucher WAMT147960	0.104278	0.015803
RB46	OK342108.1 <i>Idiosoma gutharuka</i> voucher WAMT155370	0.104278	0.015803
RB46	OK342109.1 <i>Idiosoma gutharuka</i> voucher WAMT155371	0.104278	0.015803
RB47	MH144623.1 <i>Idiosoma sigillatum</i> isolate NCB 016 T132756 J ID SIGILLATUM Shenton Park WA	0.104278	0.015803
RB43	MH144623.1 <i>Idiosoma sigillatum</i> isolate NCB 016 T132756 J ID SIGILLATUM Shenton Park WA	0.106952	0.015981
RB44	MH144623.1 <i>Idiosoma sigillatum</i> isolate NCB 016 T132756 J ID SIGILLATUM Shenton Park WA	0.106952	0.015981
RB47	MT835390.1 <i>Idiosoma gutharuka</i> voucher WAMT150972	0.106952	0.015981
RB47	OK342110.1 <i>Idiosoma gutharuka</i> voucher WAMT155372	0.106952	0.015981
RB46	MT040953.1 <i>Idiosoma intermedium</i> voucher WAMT147961	0.106952	0.015981
RB43	MH144639.1 <i>Idiosoma schoknechtorum</i> isolate NCB 004 T140765 F ID MYG518 SCHOKNECHTORUM York WA	0.109626	0.016155
RB43	MT835390.1 <i>Idiosoma gutharuka</i> voucher WAMT150972	0.109626	0.016155
RB43	OK342110.1 <i>Idiosoma gutharuka</i> voucher WAMT155372	0.109626	0.016155
RB44	MH144639.1 <i>Idiosoma schoknechtorum</i> isolate NCB 004 T140765 F ID MYG518 SCHOKNECHTORUM York WA	0.109626	0.016155
RB44	MT835390.1 <i>Idiosoma gutharuka</i> voucher WAMT150972	0.109626	0.016155
RB44	OK342110.1 <i>Idiosoma gutharuka</i> voucher WAMT155372	0.109626	0.016155
RB47	MH144624.1 <i>Idiosoma mcclementsorum</i> isolate NCB 001 T139469 F ID MYG474 MCCLEMENTSORUM Julimar WA	0.109626	0.016155
RB47	OK342111.1 <i>Idiosoma intermedium</i> voucher WAMT155373	0.109626	0.016155
RB47	MH144620.1 <i>Idiosoma sigillatum</i> isolate 134 T129191 F ID	0.109626	0.016155

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
	SIGILLATUM Karnup WA		
RB43	MH144620.1 <i>Idiosoma sigillatum</i> isolate 134 T129191 F ID SIGILLATUM Karnup WA	0.112299	0.016326
RB43	MH144624.1 <i>Idiosoma mcclementsorum</i> isolate NCB 001 T139469 F ID MYG474 MCCLEMENTSORUM Julimar WA	0.112299	0.016326
RB43	OK342111.1 <i>Idiosoma intermedium</i> voucher WAMT155373	0.112299	0.016326
RB44	MH144620.1 <i>Idiosoma sigillatum</i> isolate 134 T129191 F ID SIGILLATUM Karnup WA	0.112299	0.016326
RB44	MH144624.1 <i>Idiosoma mcclementsorum</i> isolate NCB 001 T139469 F ID MYG474 MCCLEMENTSORUM Julimar WA	0.112299	0.016326
RB44	OK342111.1 <i>Idiosoma intermedium</i> voucher WAMT155373	0.112299	0.016326
RB46	MH144623.1 <i>Idiosoma sigillatum</i> isolate NCB 016 T132756 J ID SIGILLATUM Shenton Park WA	0.112299	0.016326
RB46	MT835390.1 <i>Idiosoma gutharuka</i> voucher WAMT150972	0.112299	0.016326
RB46	OK342110.1 <i>Idiosoma gutharuka</i> voucher WAMT155372	0.112299	0.016326
RB47	MH144637.1 <i>Idiosoma nigrum</i> isolate NCB 020 T127020 F ID NIGRUM Calingiri WA	0.112299	0.016326
RB47	MH144639.1 <i>Idiosoma schoknechtorum</i> isolate NCB 004 T140765 F ID MYG518 SCHOKNECHTORUM York WA	0.112299	0.016326
RB46	MH144637.1 <i>Idiosoma nigrum</i> isolate NCB 020 T127020 F ID NIGRUM Calingiri WA	0.114973	0.016495
RB47	AA8 IBI	0.114973	0.016495
RB43	MH144637.1 <i>Idiosoma nigrum</i> isolate NCB 020 T127020 F ID NIGRUM Calingiri WA	0.114973	0.016495
RB44	MH144637.1 <i>Idiosoma nigrum</i> isolate NCB 020 T127020 F ID NIGRUM Calingiri WA	0.114973	0.016495
RB46	MH144639.1 <i>Idiosoma schoknechtorum</i> isolate NCB 004 T140765 F ID MYG518 SCHOKNECHTORUM York WA	0.114973	0.016495
RB43	AA8 IBI	0.117647	0.016660
RB44	AA8 IBI	0.117647	0.016660
RB46	AA8 IBI	0.117647	0.016660
RB46	MH144624.1 <i>Idiosoma mcclementsorum</i> isolate NCB 001 T139469 F ID MYG474 MCCLEMENTSORUM Julimar WA	0.117647	0.016660
RB47	MH144613.1 <i>Idiosoma intermedium</i> isolate NCB 011 T139517 M ID MYG475 INTERMEDIUM Mungarri WA	0.117647	0.016660
RB43	MH144613.1 <i>Idiosoma intermedium</i> isolate NCB 011 T139517 M ID MYG475 INTERMEDIUM Mungarri WA	0.120321	0.016823
RB44	MH144613.1 <i>Idiosoma intermedium</i> isolate NCB 011 T139517 M ID MYG475 INTERMEDIUM Mungarri WA	0.120321	0.016823
RB46	MH144620.1 <i>Idiosoma sigillatum</i> isolate 134 T129191 F ID SIGILLATUM Karnup WA	0.122995	0.016983
RB46	O1 IAZ	0.122995	0.016983
RB46	OK342111.1 <i>Idiosoma intermedium</i> voucher WAMT155373	0.122995	0.016983
RB47	O1 IAZ	0.122995	0.016983
RB43	O1 IAZ	0.125668	0.017140
RB44	O1 IAZ	0.125668	0.017140
RB46	MH144613.1 <i>Idiosoma intermedium</i> isolate NCB 011 T139517 M ID MYG475 INTERMEDIUM Mungarri WA	0.128342	0.017295
RB47	MH144612.1 <i>Idiosoma intermedium</i> isolate NCB 005 T140940 F ID MYG475 INTERMEDIUM Bullfinch WA	0.128342	0.017295
RB43	MH144612.1 <i>Idiosoma intermedium</i> isolate NCB 005 T140940 F ID MYG475 INTERMEDIUM Bullfinch WA	0.131016	0.017447
RB44	MH144612.1 <i>Idiosoma intermedium</i> isolate NCB 005 T140940 F ID MYG475 INTERMEDIUM Bullfinch WA	0.131016	0.017447
RB45	MH144658.1 <i>Idiosoma kopejtkorum</i> isolate 145 T108523 F ID MYG521 KOPEJTKAORUM Maya NR WA	0.131016	0.017447
RB46	T96270 IAN	0.131016	0.017447
RB47	MH144610.1 <i>Idiosoma intermedium</i> isolate NCB 010 T139519	0.131016	0.017447

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
	M ID MYG475 INTERMEDIUM Warrachuppin WA		
RB47	T96277 IAO	0.133690	0.017597
RB43	MH144610.1 <i>Idiosoma intermedium</i> isolate NCB 010 T139519 M ID MYG475 INTERMEDIUM Warrachuppin WA	0.133690	0.017597
RB43	T96270 IAN	0.133690	0.017597
RB44	MH144610.1 <i>Idiosoma intermedium</i> isolate NCB 010 T139519 M ID MYG475 INTERMEDIUM Warrachuppin WA	0.133690	0.017597
RB44	T96270 IAN	0.133690	0.017597
RB45	MH144653.1 <i>Idiosoma clypeatum</i> isolate 125 T117996 F ID MYG018 CLYPEATUM Blue Hill Rg WA	0.133690	0.017597
RB46	T96277 IAO	0.133690	0.017597
RB47	T96270 IAN	0.133690	0.017597
RB43	T96277 IAO	0.136364	0.017745
RB44	T96277 IAO	0.136364	0.017745
RB45	MH144624.1 <i>Idiosoma mcclementsorum</i> isolate NCB 001 T139469 F ID MYG474 MCCLEMENTSORUM Julimar WA	0.136364	0.017745
RB45	MH144654.1 <i>Idiosoma kopejtkorum</i> isolate 143 T125765 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.136364	0.017745
RB45	OK342111.1 <i>Idiosoma intermedium</i> voucher WAMT155373	0.136364	0.017745
RB46	MH144610.1 <i>Idiosoma intermedium</i> isolate NCB 010 T139519 M ID MYG475 INTERMEDIUM Warrachuppin WA	0.136364	0.017745
RB46	MH144612.1 <i>Idiosoma intermedium</i> isolate NCB 005 T140940 F ID MYG475 INTERMEDIUM Bullfinch WA	0.136364	0.017745
RB45	MH144628.1 <i>Idiosoma formosum</i> isolate 159 T125751 F ID MYG262 FORMOSUM Mummaloo WA	0.139037	0.017890
RB45	MH144650.1 <i>Idiosoma clypeatum</i> isolate 141 T108516 F ID MYG018 CLYPEATUM Karara WA	0.139037	0.017890
RB45	MH144657.1 <i>Idiosoma kopejtkorum</i> isolate NCB 019 T126455 F ID MYG521 KOPEJTKAORUM Mummaloo WA	0.139037	0.017890
RB45	MT040947.1 <i>Idiosoma clypeatum</i> voucher WAMT147955	0.139037	0.017890
RB47	MW535171.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152201	0.139037	0.017890
RB47	MW535172.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152202	0.139037	0.017890
RB47	T97336 IAQ	0.139037	0.017890
RB43	MW535171.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152201	0.141711	0.018034
RB43	MW535172.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152202	0.141711	0.018034
RB43	T97336 IAQ	0.141711	0.018034
RB44	MW535171.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152201	0.141711	0.018034
RB44	MW535172.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152202	0.141711	0.018034
RB44	T97336 IAQ	0.141711	0.018034
RB45	MH144632.1 <i>Idiosoma mcnamarai</i> isolate NCB 014 T139496 F ID MYG520 MCNAMARAI Cleary WA	0.141711	0.018034
RB45	MH144649.1 <i>Idiosoma clypeatum</i> isolate 139 T108030 F ID MYG018 CLYPEATUM Lakeside Stn WA	0.141711	0.018034
RB45	MH144655.1 <i>Idiosoma kopejtkorum</i> isolate NCB 003 T140751 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.141711	0.018034
RB45	MH144656.1 <i>Idiosoma kopejtkorum</i> isolate 144 T108519 F ID MYG521 KOPEJTKAORUM Charles Darwin NR WA	0.141711	0.018034
RB45	MT040946.1 <i>Idiosoma clypeatum</i> voucher WAMT147954	0.141711	0.018034
RB45	RB47	0.141711	0.018034
RB47	MH144611.1 <i>Idiosoma intermedium</i> isolate 310 T92079 J ID MYG475 INTERMEDIUM Mt Manning WA	0.141711	0.018034
RB45	RB47	0.141711	0.018034
RB43	MH144611.1 <i>Idiosoma intermedium</i> isolate 310 T92079 J ID MYG475 INTERMEDIUM Mt Manning WA	0.144385	0.018175
RB44	MH144611.1 <i>Idiosoma intermedium</i> isolate 310 T92079 J ID MYG475 INTERMEDIUM Mt Manning WA	0.144385	0.018175
RB45	MH144613.1 <i>Idiosoma intermedium</i> isolate NCB 011 T139517 M ID MYG475 INTERMEDIUM Mungarri WA	0.144385	0.018175

Mt Gibson Specimen	Reference Specimen	p-distance	Std. Err
RB47	KJ744729.1 <i>Aganippe</i> sp. MYG222 voucher T110277	0.144385	0.018175
RB47	MW535173.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152206	0.144385	0.018175
RB43	RB45	0.144385	0.018175
RB44	RB45	0.144385	0.018175
RB45	MH144630.1 <i>Idiosoma formosum</i> isolate NCB 012 T139470 M ID MYG262 FORMOSUM Mt Gibson WA	0.144385	0.018175
RB45	MH144659.1 <i>Idiosoma kopejtkorum</i> isolate 147 T108518 J ID MYG521 KOPEJTKAORUM Buntine NR WA	0.144385	0.018175
RB43	RB45	0.144385	0.018175
RB44	RB45	0.144385	0.018175
RB43	KJ744729.1 <i>Aganippe</i> sp. MYG222 voucher T110277	0.147059	0.018313
RB43	MW535173.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152206	0.147059	0.018313
RB44	KJ744729.1 <i>Aganippe</i> sp. MYG222 voucher T110277	0.147059	0.018313
RB44	MW535173.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152206	0.147059	0.018313
RB45	MH144623.1 <i>Idiosoma sigillatum</i> isolate NCB 016 T132756 J ID SIGILLATUM Shenton Park WA	0.147059	0.018313
RB45	MH144644.1 <i>Idiosoma clypeatum</i> isolate 137 T78252 F ID MYG018 CLYPEATUM Coolcalalaya WA	0.147059	0.018313
RB45	MH144646.1 <i>Idiosoma clypeatum</i> isolate 132 T107368 M ID MYG018 CLYPEATUM Glen Stn WA	0.147059	0.018313
RB45	MH144652.1 <i>Idiosoma clypeatum</i> isolate 140 T108517 F ID MYG018 CLYPEATUM Dalgara Stn WA	0.147059	0.018313
RB45	MH144661.1 <i>Idiosoma kwongan</i> isolate NCB 018 T27117 M ID MYG472 KWONGAN Eneabba WA	0.147059	0.018313
RB45	MT040949.1 <i>Idiosoma intermedium</i> voucher WAMT147957	0.147059	0.018313
RB45	MT040950.1 <i>Idiosoma intermedium</i> voucher WAMT147958	0.147059	0.018313
RB45	MT040951.1 <i>Idiosoma intermedium</i> voucher WAMT147959	0.147059	0.018313
RB45	MT040952.1 <i>Idiosoma intermedium</i> voucher WAMT147960	0.147059	0.018313
RB46	T97336 IAQ	0.147059	0.018313
RB45	MH144639.1 <i>Idiosoma schoknechtorum</i> isolate NCB 004 T140765 F ID MYG518 SCHOKNECHTORUM York WA	0.149733	0.018450
RB45	MH144643.1 <i>Idiosoma clypeatum</i> isolate 160 T101942 F ID MYG018 CLYPEATUM Yeelirrie WA	0.149733	0.018450
RB45	MH144647.1 <i>Idiosoma clypeatum</i> isolate NCB 021 T136250 F ID MYG018 CLYPEATUM Boolardy Stn WA	0.149733	0.018450
RB45	MH144648.1 <i>Idiosoma clypeatum</i> isolate NCB 022 T136252 M ID MYG018 CLYPEATUM Jack Hills WA	0.149733	0.018450
RB45	MH144660.1 <i>Idiosoma kwongan</i> isolate NCB 007 T139468 M ID MYG472 KWONGAN Mt Lesueur	0.149733	0.018450
RB45	MH144663.1 <i>Idiosoma arenaceum</i> isolate NCB 017 T41364 M ID MYG478 ARENACEUM Zuytdorp WA	0.149733	0.018450
RB45	MT040953.1 <i>Idiosoma intermedium</i> voucher WAMT147961	0.149733	0.018450
RB45	MW621089.1 <i>Idiosoma clypeatum</i> voucher WAMT135961	0.149733	0.018450
RB45	MW621094.1 <i>Idiosoma clypeatum</i> voucher WAMT136250	0.149733	0.018450
RB45	MW621095.1 <i>Idiosoma clypeatum</i> voucher WAMT136251	0.149733	0.018450
RB45	MW621096.1 <i>Idiosoma nigrum</i> voucher WAMT136252	0.149733	0.018450
RB45	O1 IAZ	0.149733	0.018450
RB45	OK342108.1 <i>Idiosoma gutharuka</i> voucher WAMT155370	0.149733	0.018450
RB45	OK342109.1 <i>Idiosoma gutharuka</i> voucher WAMT155371	0.149733	0.018450
RB46	MH144611.1 <i>Idiosoma intermedium</i> isolate 310 T92079 J ID MYG475 INTERMEDIUM Mt Manning WA	0.149733	0.018450
RB46	MW535171.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152201	0.149733	0.018450
RB46	MW535172.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152202	0.149733	0.018450
RB46	T93853 IAM	0.149733	0.018450
RB47	MW535168.1 <i>Idiosoma</i> sp. MYG222 voucher WAMT152199	0.149733	0.018450
RB47	T93853 IAM	0.149733	0.018450

4.1.5 Family Halanoproctidae

The family Halanoproctidae was previously a subfamily of the Ctenizidae until it was recently recircumscribed (Godwin *et al.*, 2018) and currently comprises six genera and more than 80 species. Godwin *et al.* (2018) found two phylogenetically well-supported subclades within the Halanoproctidae that were morphologically distinguishable, one now the newly named subfamily Halanoproctinae, the other was circumscribed Ummidiinae. The Halanoproctidae family is distributed on all the continents, with the exception of Antarctica (Godwin *et al.*, 2018).

There was a single halanoproctid specimen sequenced from Mt Gibson (RB48) (Table 1), initially assigned to the family Idiopidae on the basis of morphology?.

Reference Specimens and Outgroups

One hundred forty-seven reference specimens of Halanoproctidae, mainly from the genus *Conothele*, were included in the phylogenetic analysis, with 124 from GenBank and 23 from the Helix database. In addition, the outgroups *Centuroides vittatus* (GenBank Accession # EU404114), and *Mesobuthus martensii* (GenBank Accession # JF00146) were obtained from GenBank.

Phylogenetic Analyses

The Mt Gibson specimen / haplotype aligned with other reference specimens obtained from GenBank belonging to the genus *Conothele* (Figure 7). There was high statistical support for the specimen's alignment with the specimen *Conothele* sp MYG550 (Genbank Accession # MK735665, WAM # T140753) (Figure 7).

Differentiation within and between lineages

The single Mt Gibson specimen belonging to the family Halanoproctidae (RB48) shows just 3.0 % molecular sequence divergence from the closest relative, a *Conothele* sp. MYG550, obtained from GenBank (GB # MK735665) (Table 10).

Conclusions

The single Halanoproctid specimen from Mt Gibson (RB48) from MGT05SRE_SS (Table 1, Figure 1) likely belongs to the species *Conothele* sp. MYG550, owing to the high genetic similarity between the specimen and references obtained from GenBank (GB # MK735665).

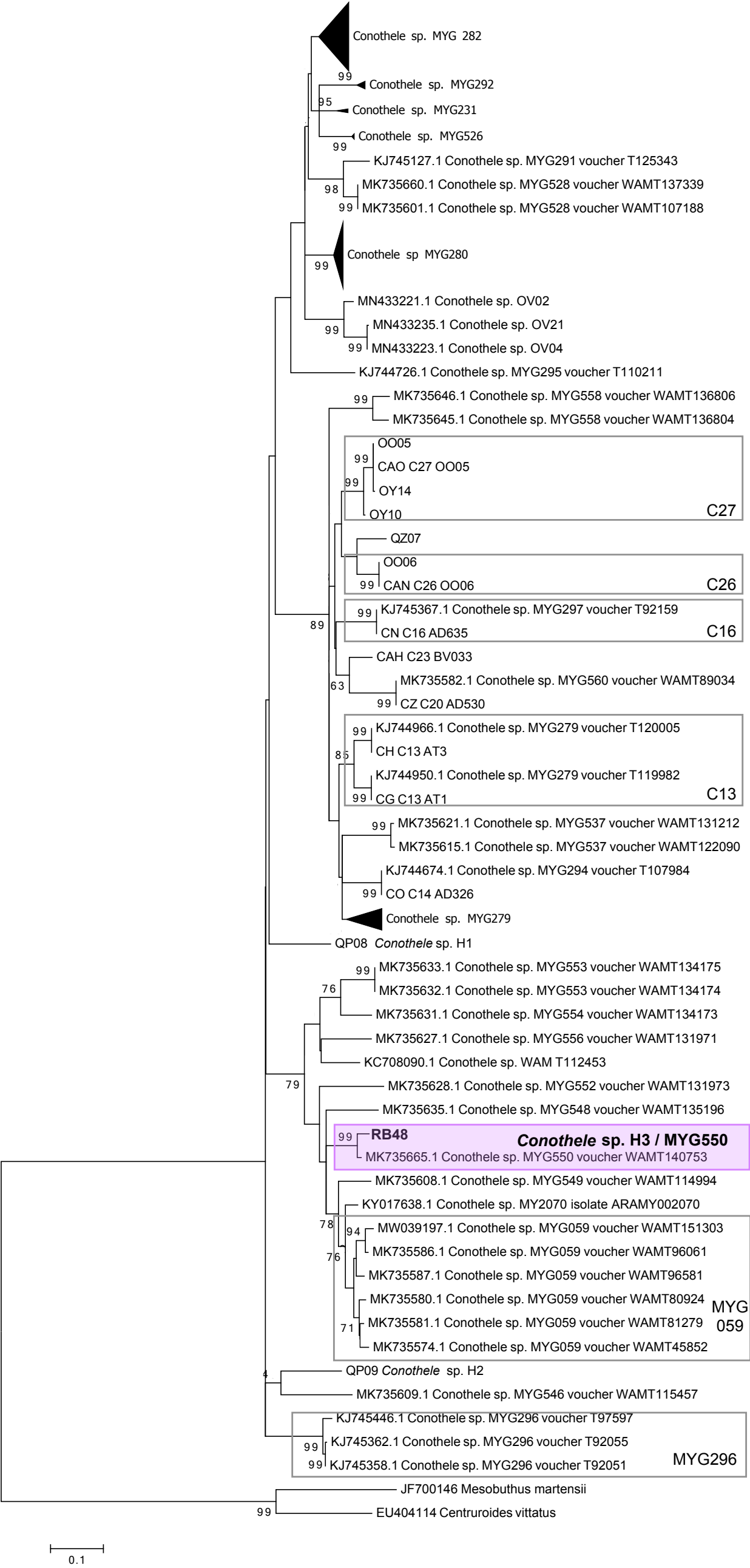


Figure 7: Maximum Likelihood analysis of COI mtDNA sequences, showing the placement of Mt Gibson specimen ('RB' prefix), within the taxonomic framework of the family Halanoprocidae, including 147 reference specimens. Numbers on nodes indicate nodal support by means of maximum likelihood (ML) bootstrap values. Bootstrap values <60 are not shown. Scale indicates inferred evolutionary distance (substitutions/site).

Table 10: Mt Gibson Halanoproctodae p-distance and the associated standard error (blue text) from reference specimens showing less than 15 % sequence divergence. Specimens and lineages in bold text represent specimens from the current survey. Un-corrected p-distances do not account for mutational saturation, which results from back mutations, and therefore provide a conservative estimate of genetic distance.

Mt Gibson specimen	Reference Specimen	p-distance	Std. Err
RB48	MK735665.1 <i>Conothele</i> sp. MYG550 voucher WAMT140753	0.030612	0.008701
RB48	KY017638.1 <i>Conothele</i> sp. MY2070 isolate ARAMY002070	0.089286	0.014403
RB48	MK735587.1 <i>Conothele</i> sp. MYG059 voucher WAMT96581	0.094388	0.014767
RB48	MW039197.1 <i>Conothele</i> sp. MYG059 voucher WAMT151303	0.094388	0.014767
RB48	MK735574.1 <i>Conothele</i> sp. MYG059 voucher WAMT45852	0.099490	0.015118
RB48	MK735581.1 <i>Conothele</i> sp. MYG059 voucher WAMT81279	0.099490	0.015118
RB48	MK735586.1 <i>Conothele</i> sp. MYG059 voucher WAMT96061	0.099490	0.015118
RB48	MK735580.1 <i>Conothele</i> sp. MYG059 voucher WAMT80924	0.102041	0.015289
RB48	MK735608.1 <i>Conothele</i> sp. MYG549 voucher WAMT114994	0.117347	0.016255
RB48	MK735635.1 <i>Conothele</i> sp. MYG548 voucher WAMT135196	0.117347	0.016255
RB48	MK735628.1 <i>Conothele</i> sp. MYG552 voucher WAMT131973	0.122449	0.016557
RB48	MK735631.1 <i>Conothele</i> sp. MYG554 voucher WAMT134173	0.132653	0.017132
RB48	QP08	0.132653	0.017132
RB48	KC708090.1 <i>Conothele</i> sp. WAM T112453	0.135204	0.017271
RB48	MK735627.1 <i>Conothele</i> sp. MYG556 voucher WAMT131971	0.135204	0.017271
RB48	KJ745358.1 <i>Conothele</i> sp. MYG296 voucher T92051	0.137755	0.017407
RB48	MK735646.1 <i>Conothele</i> sp. MYG558 voucher WAMT136806	0.137755	0.017407
RB48	MK735632.1 <i>Conothele</i> sp. MYG553 voucher WAMT134174	0.137755	0.017407
RB48	MK735633.1 <i>Conothele</i> sp. MYG553 voucher WAMT134175	0.137755	0.017407

RB48	CG C13 AT1	0.140306	0.017542
RB48	KJ744950.1 <i>Conothele</i> sp. MYG279 voucher T119982	0.140306	0.017542
RB48	KJ745362.1 <i>Conothele</i> sp. MYG296 voucher T92055	0.140306	0.017542
RB48	CAO C27 OO05	0.142857	0.017674
RB48	OO05	0.142857	0.017674
RB48	CH C13 AT3	0.145408	0.017805
RB48	KJ744966.1 <i>Conothele</i> sp. MYG279 voucher T120005	0.145408	0.017805
RB48	KJ745446.1 <i>Conothele</i> sp. MYG296 voucher T97597	0.145408	0.017805
RB48	OY14	0.145408	0.017805
RB48	KJ745181.1 <i>Conothele</i> sp. MYG280 voucher T127213	0.147959	0.017933
RB48	KJ745502.1 <i>Conothele</i> sp. MYG282 voucher T99598	0.147959	0.017933
RB48	MK735601.1 <i>Conothele</i> sp. MYG528 voucher WAMT107188	0.147959	0.017933
RB48	MK735621.1 <i>Conothele</i> sp. MYG537 voucher WAMT131212	0.147959	0.017933
RB48	MK735660.1 <i>Conothele</i> sp. MYG528 voucher WAMT137339	0.147959	0.017933
RB48	MN433221.1 <i>Conothele</i> sp. OV02	0.147959	0.017933
RB48	MN433223.1 <i>Conothele</i> sp. OV04	0.147959	0.017933
RB48	OY10	0.147959	0.017933

5.0 Summary

The mtDNA gene cytochrome oxidase 1 (COI) is widely considered to show suitable variation to distinguish species (Hebert *et al.*, 2003a), and the use of this gene can be extremely effective for 'DNA barcoding' in taxa where clear differentiation exists between intra and interspecific levels of divergence (e.g. Hebert *et al.*, 2004a; 2004b). COI barcoding studies from a broad range of taxa including arthropods, birds, fish and mammals, indicate that intra-specific variation rarely exceeds 2 % (Ratnasingham *et al.* 2013), and that most species differ from their closest relative by > 6 % at COI. Despite its merits in barcoding however, a taxon by taxon approach, examining the amount of phylogenetic variation within and between taxa is the most widely accepted method of delineating species and their distributions, especially in areas where rapidly expanding mining operations outpace taxonomic treatment of unresolved taxa.

In summary, we detected a total of 16 lineages (8 Anamidae, 3 Euagridae, 2 Barychelidae, 2 Idiopidae, 1 Halanoproctidae) amongst the 45 sequenced specimens from 15 sites. These lineages likely correspond to between 15 and 16 species (Euagridae sp. H-EB_E02* and Euagridae sp. H-EC_E03* may be two distinct species or may represent a single species showing genetic variation associated with geographical distance). At least six of the species detected in this survey have been detected previously, whilst the remainder appear to be new, based on the molecular data available for comparison. The number of new species depends on whether we combine the two Mt Gibson Euagridae lineages (Euagridae sp. H-EB_E02* and Euagridae sp. H-EC_E03*) with the previously detected Euagridae sp. D3 into a single species, and similarly, the Barychelidae lineage B51 detected in this study showed a relatively close relationship to the previously recorded species *Idiomata* sp. MYG320 and may represent a single genetically variable species or two species. Defining species boundaries and determining a more precise estimate of the number of species in some of these groups will require additional investigation using a morphological and/or multi-gene approach.

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Appendix 1

Molecular p-distance of the Mt Gibson H-N84
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB12	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.138418	0.018355
RB15	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.138418	0.018355
RB12	KJ745479.1 Aname ellenae T98883	0.141243	0.018510
RB12	KJ745488.1 Aname ellenae T98894	0.141243	0.018510
RB12	KJ745489.1 Aname ellenae T98895	0.141243	0.018510
RB15	KJ745479.1 Aname ellenae T98883	0.141243	0.018510
RB15	KJ745488.1 Aname ellenae T98894	0.141243	0.018510
RB15	KJ745489.1 Aname ellenae T98895	0.141243	0.018510
RB12	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.144068	0.018664
RB12	KJ744982.1 Aname mellosa T122207	0.144068	0.018664
RB15	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.144068	0.018664
RB15	KJ744982.1 Aname mellosa T122207	0.144068	0.018664
RB12	KJ745168.1 Aname mellosa T126296	0.146893	0.018815
RB15	KJ745168.1 Aname mellosa T126296	0.146893	0.018815
RB12	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.149718	0.018963
RB12	KJ744623.1:239-658 Aname mellosa voucher T105871	0.149718	0.018963
RB12	KJ744662.1:240-658 Aname mellosa voucher T107945	0.149718	0.018963
RB12	KJ744987.1 Aname mellosa T122215	0.149718	0.018963
RB12	KJ745371.1 Aname mellosa T92456	0.149718	0.018963
RB15	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.149718	0.018963
RB15	KJ744623.1:239-658 Aname mellosa voucher T105871	0.149718	0.018963
RB15	KJ744662.1:240-658 Aname mellosa voucher T107945	0.149718	0.018963
RB15	KJ744987.1 Aname mellosa T122215	0.149718	0.018963
RB15	KJ745371.1 Aname mellosa T92456	0.149718	0.018963
RB12	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.152542	0.019110
RB12	KJ744977.1:2-658 Aname mellosa voucher T122200	0.152542	0.019110
RB12	KJ745159.1:2-658 Aname mellosa voucher T126279	0.152542	0.019110
RB12	KJ745170.1 Aname mellosa T126301	0.152542	0.019110
RB12	KJ745398.1 Aname mellosa T95402	0.152542	0.019110
RB15	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.152542	0.019110
RB15	KJ744977.1:2-658 Aname mellosa voucher T122200	0.152542	0.019110
RB15	KJ745159.1:2-658 Aname mellosa voucher T126279	0.152542	0.019110
RB15	KJ745170.1 Aname mellosa T126301	0.152542	0.019110
RB15	KJ745398.1 Aname mellosa T95402	0.152542	0.019110
RB12	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.155367	0.019254
RB12	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.155367	0.019254
RB12	KJ744651.1 Aname mellosa T107182	0.155367	0.019254
RB12	KJ744775.1:239-658 Aname mellosa voucher T113629	0.155367	0.019254
RB12	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB12	KJ744785.1:239-658 Aname mellosa voucher T113642	0.155367	0.019254
RB12	KJ744788.1:239-658 Aname mellosa voucher T113648	0.155367	0.019254
RB12	KJ744791.1:239-658 Aname mellosa voucher T113654	0.155367	0.019254
RB12	KJ745012.1 Aname mellosa T122263	0.155367	0.019254
RB12	KJ745051.1 Aname mellosa T122823	0.155367	0.019254
RB12	KJ745093.1 Aname mellosa T122870	0.155367	0.019254
RB12	KJ745370.1 Aname mellosa T92455	0.155367	0.019254
RB12	KJ745396.1 Aname mellosa T95400	0.155367	0.019254
RB15	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.155367	0.019254
RB15	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.155367	0.019254
RB15	KJ744651.1 Aname mellosa T107182	0.155367	0.019254
RB15	KJ744775.1:239-658 Aname mellosa voucher T113629	0.155367	0.019254
RB15	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB15	KJ744785.1:239-658 Aname mellosa voucher T113642	0.155367	0.019254
RB15	KJ744788.1:239-658 Aname mellosa voucher T113648	0.155367	0.019254
RB15	KJ744791.1:239-658 Aname mellosa voucher T113654	0.155367	0.019254
RB15	KJ745012.1 Aname mellosa T122263	0.155367	0.019254
RB15	KJ745051.1 Aname mellosa T122823	0.155367	0.019254
RB15	KJ745093.1 Aname mellosa T122870	0.155367	0.019254
RB15	KJ745370.1 Aname mellosa T92455	0.155367	0.019254
RB15	KJ745396.1 Aname mellosa T95400	0.155367	0.019254
RB12	KJ744630.1 Aname mellosa T105886	0.158192	0.019395
RB12	KJ744661.1:240-658 Aname mellosa voucher T107942	0.158192	0.019395
RB12	KJ744803.1:2-658 Aname mellosa voucher T113666	0.158192	0.019395
RB12	KJ745134.1:242-658 Aname mellosa voucher T126250	0.158192	0.019395
RB12	KJ745143.1:242-658 Aname mellosa voucher T126259	0.158192	0.019395
RB12	KJ745365.1 Aname mellosa T92127	0.158192	0.019395
RB15	KJ744630.1 Aname mellosa T105886	0.158192	0.019395
RB15	KJ744661.1:240-658 Aname mellosa voucher T107942	0.158192	0.019395
RB15	KJ744803.1:2-658 Aname mellosa voucher T113666	0.158192	0.019395
RB15	KJ745134.1:242-658 Aname mellosa voucher T126250	0.158192	0.019395
RB15	KJ745143.1:242-658 Aname mellosa voucher T126259	0.158192	0.019395
RB15	KJ745365.1 Aname mellosa T92127	0.158192	0.019395
RB12	KJ744491.1 Aname mellosa T103177	0.158192	0.019395
RB12	KJ744890.1:2-658 Aname mellosa voucher T116858	0.158192	0.019395
RB12	KJ745146.1:2-658 Aname mellosa voucher T126262	0.158192	0.019395
RB12	KJ745155.1:2-658 Aname mellosa voucher T126273	0.158192	0.019395
RB12	KJ745172.1:2-658 Aname mellosa voucher T127198	0.158192	0.019395
RB15	KJ744491.1 Aname mellosa T103177	0.158192	0.019395
RB15	KJ744890.1:2-658 Aname mellosa voucher T116858	0.158192	0.019395
RB15	KJ745146.1:2-658 Aname mellosa voucher T126262	0.158192	0.019395
RB15	KJ745155.1:2-658 Aname mellosa voucher T126273	0.158192	0.019395
RB15	KJ745172.1:2-658 Aname mellosa voucher T127198	0.158192	0.019395
RB12	KJ744392.1:2-658 Aname mellosa voucher T101156	0.161017	0.019535
RB12	KJ744394.1 Aname mellosa T101158	0.161017	0.019535
RB12	KJ744552.1:2-658 Aname mellosa voucher T103255	0.161017	0.019535
RB12	KJ744611.1 Aname mellosa T10585	0.161017	0.019535

Mt Gibson specimen	Reference specimen	p-distance	SE
RB12	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB12	KJ744669.1:242-658 Aname mellosa voucher T107968	0.161017	0.019535
RB12	KJ744926.1:2-658 Aname mellosa voucher T119710	0.161017	0.019535
RB12	KJ745153.1:242-658 Aname mellosa voucher T126271	0.161017	0.019535
RB12	KJ745160.1:242-658 Aname mellosa voucher T126280	0.161017	0.019535
RB12	KJ745191.1:2-658 Aname mellosa voucher T127228	0.161017	0.019535
RB15	KJ744392.1:2-658 Aname mellosa voucher T101156	0.161017	0.019535
RB15	KJ744394.1 Aname mellosa T101158	0.161017	0.019535
RB15	KJ744552.1:2-658 Aname mellosa voucher T103255	0.161017	0.019535
RB15	KJ744611.1 Aname mellosa T10585	0.161017	0.019535
RB15	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB15	KJ744669.1:242-658 Aname mellosa voucher T107968	0.161017	0.019535
RB15	KJ744926.1:2-658 Aname mellosa voucher T119710	0.161017	0.019535
RB15	KJ745153.1:242-658 Aname mellosa voucher T126271	0.161017	0.019535
RB15	KJ745160.1:242-658 Aname mellosa voucher T126280	0.161017	0.019535
RB15	KJ745191.1:2-658 Aname mellosa voucher T127228	0.161017	0.019535
RB12	KJ745176.1:2-658 Aname mellosa voucher T127205	0.161017	0.019535
RB15	KJ745176.1:2-658 Aname mellosa voucher T127205	0.161017	0.019535
RB12	KJ744390.1:2-658 Aname mellosa voucher T101154	0.163842	0.019672
RB12	KJ744398.1:242-658 Aname mellosa voucher T101163	0.163842	0.019672
RB12	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB12	KJ744761.1:2-658 Aname mellosa voucher T113608	0.163842	0.019672
RB12	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.163842	0.019672
RB15	KJ744390.1:2-658 Aname mellosa voucher T101154	0.163842	0.019672
RB15	KJ744398.1:242-658 Aname mellosa voucher T101163	0.163842	0.019672
RB15	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB15	KJ744761.1:2-658 Aname mellosa voucher T113608	0.163842	0.019672
RB15	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.163842	0.019672
RB12	KJ745198.1:1-658 Aname mainae voucher T42354	0.166667	0.019808
RB15	KJ745198.1:1-658 Aname mainae voucher T42354	0.166667	0.019808
RB12	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB12	KJ744901.1 Aname sp. MYG331 T118789	0.169492	0.019941
RB12	KJ744902.1 Aname sp. MYG331 T118791	0.169492	0.019941
RB12	KJ744990.1:240-658 Aname mellosa voucher T122219	0.169492	0.019941
RB12	KJ745184.1:2-658 Aname mellosa voucher T127219	0.169492	0.019941
RB12	KJ745242.1 Aname sp. MYG177 T76820	0.169492	0.019941
RB12	KJ745249.1 Aname sp. MYG177 T76827	0.169492	0.019941
RB15	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB15	KJ744901.1 Aname sp. MYG331 T118789	0.169492	0.019941
RB15	KJ744902.1 Aname sp. MYG331 T118791	0.169492	0.019941
RB15	KJ744990.1:240-658 Aname mellosa voucher T122219	0.169492	0.019941
RB15	KJ745184.1:2-658 Aname mellosa voucher T127219	0.169492	0.019941
RB15	KJ745242.1 Aname sp. MYG177 T76820	0.169492	0.019941
RB15	KJ745249.1 Aname sp. MYG177 T76827	0.169492	0.019941
RB12	KJ744577.1 Aname mellosa T103913	0.172316	0.020072
RB12	KJ744733.1 Aname sp. MYG177 T112359	0.172316	0.020072
RB12	KJ745004.1:2-658 Aname mellosa voucher T122242	0.172316	0.020072
RB12	KJ745241.1 Aname sp. MYG177 voucher T76819	0.172316	0.020072
RB12	KJ745243.1 Aname sp. MYG177 voucher T76821	0.172316	0.020072
RB12	KJ745244.1 Aname sp. MYG177 T76822	0.172316	0.020072
RB12	KJ745245.1 Aname sp. MYG177 T76823	0.172316	0.020072
RB12	KJ745246.1 Aname sp. MYG177 voucher T76824	0.172316	0.020072
RB12	KJ745247.1 Aname sp. MYG177 voucher T76825	0.172316	0.020072
RB12	KJ745248.1 Aname sp. MYG177 voucher T76826	0.172316	0.020072
RB12	KJ745251.1 Aname sp. MYG177 T76829	0.172316	0.020072
RB12	KJ745257.1 Aname sp. MYG177 T77081	0.172316	0.020072
RB15	KJ744577.1 Aname mellosa T103913	0.172316	0.020072
RB15	KJ744733.1 Aname sp. MYG177 T112359	0.172316	0.020072
RB15	KJ745004.1:2-658 Aname mellosa voucher T122242	0.172316	0.020072
RB15	KJ745241.1 Aname sp. MYG177 voucher T76819	0.172316	0.020072
RB15	KJ745243.1 Aname sp. MYG177 voucher T76821	0.172316	0.020072
RB15	KJ745244.1 Aname sp. MYG177 T76822	0.172316	0.020072
RB15	KJ745245.1 Aname sp. MYG177 T76823	0.172316	0.020072
RB15	KJ745246.1 Aname sp. MYG177 voucher T76824	0.172316	0.020072
RB15	KJ745247.1 Aname sp. MYG177 voucher T76825	0.172316	0.020072
RB15	KJ745248.1 Aname sp. MYG177 voucher T76826	0.172316	0.020072
RB15	KJ745251.1 Aname sp. MYG177 T76829	0.172316	0.020072
RB15	KJ745257.1 Aname sp. MYG177 T77081	0.172316	0.020072
RB12	KJ744909.1 Aname sp. MYG331 T118805	0.172316	0.020072
RB12	KJ744910.1 Aname sp. MYG331 T118811	0.172316	0.020072
RB12	KJ744911.1 Aname sp. MYG331 T118812	0.172316	0.020072
RB15	KJ744909.1 Aname sp. MYG331 T118805	0.172316	0.020072
RB15	KJ744910.1 Aname sp. MYG331 T118811	0.172316	0.020072
RB15	KJ744911.1 Aname sp. MYG331 T118812	0.172316	0.020072
RB12	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.175141	0.020201
RB12	KJ744404.1 Aname sp. MYG173 T101214	0.175141	0.020201
RB12	KJ744461.1 Aname mellosa voucher T102745	0.175141	0.020201
RB12	KJ744610.1 Aname sp. MYG371 T105216	0.175141	0.020201
RB12	KJ744914.1 Aname sp. MYG331 T118818	0.175141	0.020201
RB12	KJ745203.1 Aname sp. MYG342 T52181	0.175141	0.020201
RB12	KJ745240.1 Aname sp. MYG177 voucher T74758	0.175141	0.020201
RB15	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.175141	0.020201
RB15	KJ744404.1 Aname sp. MYG173 T101214	0.175141	0.020201
RB15	KJ744461.1 Aname mellosa voucher T102745	0.175141	0.020201
RB15	KJ744610.1 Aname sp. MYG371 T105216	0.175141	0.020201
RB15	KJ744914.1 Aname sp. MYG331 T118818	0.175141	0.020201

Mt Gibson specimen	Reference specimen	p-distance	SE
RB15	KJ745203.1 Aname sp. MYG342 T52181	0.175141	0.020201
RB15	KJ745240.1 Aname sp. MYG177 voucher T74758	0.175141	0.020201
RB12	KJ744447.1 Aname mellosa voucher T102731	0.177966	0.020329
RB12	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.177966	0.020329
RB12	KJ744720.1 Aname sp. MYG001 T110201	0.177966	0.020329
RB12	KJ745256.1 Aname sp. MYG177 voucher T77080	0.177966	0.020329
RB12	KJ745296.1 Aname sp. MYG364 T85262	0.177966	0.020329
RB15	KJ744447.1 Aname mellosa voucher T102731	0.177966	0.020329
RB15	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.177966	0.020329
RB15	KJ744720.1 Aname sp. MYG001 T110201	0.177966	0.020329
RB15	KJ745256.1 Aname sp. MYG177 voucher T77080	0.177966	0.020329
RB15	KJ745296.1 Aname sp. MYG364 T85262	0.177966	0.020329
RB12	KJ744432.1 Aname sp. MYG368 voucher T102108	0.177966	0.020329
RB12	KJ744445.1 Aname mellosa voucher T102729	0.177966	0.020329
RB12	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.177966	0.020329
RB15	KJ744432.1 Aname sp. MYG368 voucher T102108	0.177966	0.020329
RB15	KJ744445.1 Aname mellosa voucher T102729	0.177966	0.020329
RB15	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.177966	0.020329
RB12	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.180791	0.020454
RB12	KJ744462.1 Aname mellosa voucher T102746	0.180791	0.020454
RB12	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.180791	0.020454
RB12	KJ745239.1 Aname sp. MYG177 T74755	0.180791	0.020454
RB12	KJ745395.1 Aname mellosa voucher T95399	0.180791	0.020454
RB15	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.180791	0.020454
RB15	KJ744462.1 Aname mellosa voucher T102746	0.180791	0.020454
RB15	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.180791	0.020454
RB15	KJ745239.1 Aname sp. MYG177 T74755	0.180791	0.020454
RB15	KJ745395.1 Aname mellosa voucher T95399	0.180791	0.020454
RB12	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB12	KJ744499.1 Aname sp. MYG339 voucher T103191	0.183616	0.020578
RB12	KJ744648.1 Aname sp. MYG373 T107087	0.183616	0.020578
RB12	KJ744717.1 Aname sp. MYG001 T110195	0.183616	0.020578
RB12	KJ744718.1 Aname sp. MYG00 T110197	0.183616	0.020578
RB12	KJ744722.1 Aname sp. MYG001 T110203	0.183616	0.020578
RB12	KJ744724.1 Aname sp. MYG001 T110206	0.183616	0.020578
RB12	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB15	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB15	KJ744499.1 Aname sp. MYG339 voucher T103191	0.183616	0.020578
RB15	KJ744648.1 Aname sp. MYG373 T107087	0.183616	0.020578
RB15	KJ744717.1 Aname sp. MYG001 T110195	0.183616	0.020578
RB15	KJ744718.1 Aname sp. MYG00 T110197	0.183616	0.020578
RB15	KJ744722.1 Aname sp. MYG001 T110203	0.183616	0.020578
RB15	KJ744724.1 Aname sp. MYG001 T110206	0.183616	0.020578
RB15	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB12	KJ744385.1:1-658 Aname mellosa voucher T100078	0.186441	0.020700
RB12	KJ744412.1 Aname sp. MYG001 102044	0.186441	0.020700
RB12	KJ744474.1:2-658 Aname mellosa voucher T102834	0.186441	0.020700
RB12	KJ744615.1 Aname sp. MYG339 voucher T105858	0.186441	0.020700
RB12	KJ744618.1 Aname sp. MYG339 voucher T105862	0.186441	0.020700
RB12	KJ744643.1 Aname sp. MYG339 voucher T105906	0.186441	0.020700
RB12	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB12	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB15	KJ744385.1:1-658 Aname mellosa voucher T100078	0.186441	0.020700
RB15	KJ744412.1 Aname sp. MYG001 102044	0.186441	0.020700
RB15	KJ744474.1:2-658 Aname mellosa voucher T102834	0.186441	0.020700
RB15	KJ744615.1 Aname sp. MYG339 voucher T105858	0.186441	0.020700
RB15	KJ744618.1 Aname sp. MYG339 voucher T105862	0.186441	0.020700
RB15	KJ744643.1 Aname sp. MYG339 voucher T105906	0.186441	0.020700
RB15	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB15	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB12	KJ744625.1 Aname sp. MYG339 voucher T105873	0.189266	0.020820
RB12	KJ744637.1 Aname sp. MYG339 voucher T105899	0.189266	0.020820
RB12	KJ744638.1 Aname sp. MYG339 voucher T105900	0.189266	0.020820
RB15	KJ744625.1 Aname sp. MYG339 voucher T105873	0.189266	0.020820
RB15	KJ744637.1 Aname sp. MYG339 voucher T105899	0.189266	0.020820
RB15	KJ744638.1 Aname sp. MYG339 voucher T105900	0.189266	0.020820
RB12	KJ744409.1 Aname sp. MYG001 T102040	0.189266	0.020820
RB12	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.189266	0.020820
RB12	KJ744436.1 Aname sp. MYG004 voucher T102161	0.189266	0.020820
RB12	KJ744616.1 Aname sp. MYG339 voucher T105859	0.189266	0.020820
RB12	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.189266	0.020820
RB12	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.189266	0.020820
RB12	KJ744745.1 Aname sp. MYG004 voucher T113584	0.189266	0.020820
RB12	KJ745231.1 Aname sp. MYG351 T74238	0.189266	0.020820
RB12	KJ745232.1 Aname sp. MYG351 T74241	0.189266	0.020820
RB12	KJ745233.1 Aname sp. MYG351 T74247	0.189266	0.020820
RB12	KJ745287.1 Aname sp. MYG351 T82303	0.189266	0.020820
RB12	KJ745293.1 Aname sp. MYG351 T82309	0.189266	0.020820
RB12	KJ745299.1 Aname sp. MYG001 T86678	0.189266	0.020820
RB12	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB12	KJ745468.1 Aname sp. MYG366 T98766	0.189266	0.020820
RB12	KJ745474.1 Aname sp. MYG366 T98774	0.189266	0.020820
RB12	KJ745477.1 Aname sp. MYG366 T98869	0.189266	0.020820
RB15	KJ744409.1 Aname sp. MYG001 T102040	0.189266	0.020820
RB15	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.189266	0.020820
RB15	KJ744436.1 Aname sp. MYG004 voucher T102161	0.189266	0.020820

Mt Gibson specimen	Reference specimen	p-distance	SE
RB15	KJ744616.1 Aname sp. MYG339 voucher T105859	0.189266	0.020820
RB15	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.189266	0.020820
RB15	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.189266	0.020820
RB15	KJ744745.1 Aname sp. MYG004 voucher T113584	0.189266	0.020820
RB15	KJ745231.1 Aname sp. MYG351 T74238	0.189266	0.020820
RB15	KJ745232.1 Aname sp. MYG351 T74241	0.189266	0.020820
RB15	KJ745233.1 Aname sp. MYG351 T74247	0.189266	0.020820
RB15	KJ745287.1 Aname sp. MYG351 T82303	0.189266	0.020820
RB15	KJ745293.1 Aname sp. MYG351 T82309	0.189266	0.020820
RB15	KJ745299.1 Aname sp. MYG001 T86678	0.189266	0.020820
RB15	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB15	KJ745468.1 Aname sp. MYG366 T98766	0.189266	0.020820
RB15	KJ745474.1 Aname sp. MYG366 T98774	0.189266	0.020820
RB15	KJ745477.1 Aname sp. MYG366 T98869	0.189266	0.020820
RB12	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB12	KJ744612.1 Aname sp. MYG339 voucher T105852	0.192090	0.020938
RB12	KJ744635.1 Aname sp. MYG339 voucher T105893	0.192090	0.020938
RB12	KJ744917.1 Aname sp. MYG004 voucher T118822	0.192090	0.020938
RB12	KJ745288.1 Aname sp. MYG351 82304	0.192090	0.020938
RB12	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB12	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB12	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB12	KJ745467.1 Aname sp. MYG366 T98765	0.192090	0.020938
RB15	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB15	KJ744612.1 Aname sp. MYG339 voucher T105852	0.192090	0.020938
RB15	KJ744635.1 Aname sp. MYG339 voucher T105893	0.192090	0.020938
RB15	KJ744917.1 Aname sp. MYG004 voucher T118822	0.192090	0.020938
RB15	KJ745288.1 Aname sp. MYG351 82304	0.192090	0.020938
RB15	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB15	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB15	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB15	KJ745467.1 Aname sp. MYG366 T98765	0.192090	0.020938
RB12	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB12	KJ745409.1 Aname sp. MYG004 voucher T96022	0.194915	0.021054
RB15	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB15	KJ745409.1 Aname sp. MYG004 voucher T96022	0.194915	0.021054
RB12	KJ744443.1 Aname mellosa voucher T102535	0.194915	0.021054
RB12	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.194915	0.021054
RB12	KJ745375.1 Aname sp. MYG034 T93314	0.194915	0.021054
RB15	KJ744443.1 Aname mellosa voucher T102535	0.194915	0.021054
RB15	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.194915	0.021054
RB15	KJ745375.1 Aname sp. MYG034 T93314	0.194915	0.021054
RB12	KJ744609.1:1-658 Aname mellosa voucher T105213	0.197740	0.021169
RB12	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB12	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB12	KJ745469.1 Aname sp. MYG366 T98768	0.197740	0.021169
RB15	KJ744609.1:1-658 Aname mellosa voucher T105213	0.197740	0.021169
RB15	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB15	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB15	KJ745469.1 Aname sp. MYG366 T98768	0.197740	0.021169
RB12	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.200565	0.021282
RB12	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.200565	0.021282
RB12	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.200565	0.021282
RB12	KJ744670.1 Aname sp. MYG004 voucher T107973	0.200565	0.021282
RB12	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.200565	0.021282
RB15	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.200565	0.021282
RB15	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.200565	0.021282
RB15	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.200565	0.021282
RB15	KJ744670.1 Aname sp. MYG004 voucher T107973	0.200565	0.021282
RB15	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.200565	0.021282
RB12	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.203390	0.021394
RB12	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.203390	0.021394
RB12	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.203390	0.021394
RB12	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.203390	0.021394
RB12	KJ744960.1 Aname sp. MYG004 voucher T119998	0.203390	0.021394
RB12	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.203390	0.021394
RB12	KJ745314.1:2-658 Aname mellosa voucher T88668	0.203390	0.021394
RB15	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.203390	0.021394
RB15	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.203390	0.021394
RB15	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.203390	0.021394
RB15	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.203390	0.021394
RB15	KJ744960.1 Aname sp. MYG004 voucher T119998	0.203390	0.021394
RB15	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.203390	0.021394
RB15	KJ745314.1:2-658 Aname mellosa voucher T88668	0.203390	0.021394
RB12	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.206215	0.021504
RB12	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.206215	0.021504
RB12	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.206215	0.021504
RB12	KJ745016.1 Aname sp. MYG329 voucher T122273	0.206215	0.021504
RB15	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.206215	0.021504
RB15	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.206215	0.021504
RB15	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.206215	0.021504
RB15	KJ745016.1 Aname sp. MYG329 voucher T122273	0.206215	0.021504
RB12	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.209040	0.021612
RB12	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.209040	0.021612
RB12	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB12	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612

Mt Gibson specimen	Reference specimen	p-distance	SE
RB12	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB12	KJ745132.1 Aname sp. MYG004 voucher T126248	0.209040	0.021612
RB12	KJ745156.1 Aname sp. MYG004 voucher T126274	0.209040	0.021612
RB12	KJ745163.1 Aname sp. MYG004 voucher T126285	0.209040	0.021612
RB15	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.209040	0.021612
RB15	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.209040	0.021612
RB15	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB15	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612
RB15	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB15	KJ745132.1 Aname sp. MYG004 voucher T126248	0.209040	0.021612
RB15	KJ745156.1 Aname sp. MYG004 voucher T126274	0.209040	0.021612
RB15	KJ745163.1 Aname sp. MYG004 voucher T126285	0.209040	0.021612
RB12	KJ744490.1 Aname sp. MYG004 voucher T103174	0.211864	0.021718
RB12	KJ744495.1 Aname sp. MYG004 voucher T103183	0.211864	0.021718
RB12	KJ744524.1 Aname sp. MYG004 voucher T103222	0.211864	0.021718
RB12	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB12	KJ744860.1 Aname sp. MYG004 voucher T116780	0.211864	0.021718
RB12	KJ744876.1 Aname sp. MYG004 voucher T116819	0.211864	0.021718
RB12	KJ744887.1 Aname sp. MYG004 voucher T116842	0.211864	0.021718
RB12	KJ745046.1 Aname sp. MYG004 voucher T122814	0.211864	0.021718
RB12	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718
RB15	KJ744490.1 Aname sp. MYG004 voucher T103174	0.211864	0.021718
RB15	KJ744495.1 Aname sp. MYG004 voucher T103183	0.211864	0.021718
RB15	KJ744524.1 Aname sp. MYG004 voucher T103222	0.211864	0.021718
RB15	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB15	KJ744860.1 Aname sp. MYG004 voucher T116780	0.211864	0.021718
RB15	KJ744876.1 Aname sp. MYG004 voucher T116819	0.211864	0.021718
RB15	KJ744887.1 Aname sp. MYG004 voucher T116842	0.211864	0.021718
RB15	KJ745046.1 Aname sp. MYG004 voucher T122814	0.211864	0.021718
RB15	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718
RB12	KJ744493.1 Aname sp. MYG004 voucher T103179	0.214689	0.021823
RB12	KJ744526.1 Aname sp. MYG004 voucher T103224	0.214689	0.021823
RB12	KJ744854.1 Aname sp. MYG004 voucher T116771	0.214689	0.021823
RB12	KJ745145.1 Aname sp. MYG004 voucher T126261	0.214689	0.021823
RB12	KJ745174.1 Aname sp. MYG004 voucher T127202	0.214689	0.021823
RB15	KJ744493.1 Aname sp. MYG004 voucher T103179	0.214689	0.021823
RB15	KJ744526.1 Aname sp. MYG004 voucher T103224	0.214689	0.021823
RB15	KJ744854.1 Aname sp. MYG004 voucher T116771	0.214689	0.021823
RB15	KJ745145.1 Aname sp. MYG004 voucher T126261	0.214689	0.021823
RB15	KJ745174.1 Aname sp. MYG004 voucher T127202	0.214689	0.021823
RB12	JF700146 Mesobuthus martensii	0.282486	0.023928
RB15	JF700146 Mesobuthus martensii	0.282486	0.023928
RB12	EU404114 Centruroides vittatus	0.296610	0.024277
RB15	EU404114 Centruroides vittatus	0.296610	0.024277

Appendix 2

Molecular p-distance of the Mt Gibson H-154
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB19	KJ745296.1 Aname sp. MYG364 T85262	0.008475	0.004872
RB17	KJ745296.1 Aname sp. MYG364 T85262	0.011299	0.005618
RB18	KJ745296.1 Aname sp. MYG364 T85262	0.011299	0.005618
RB03	KJ745296.1 Aname sp. MYG364 T85262	0.014124	0.006272
RB21	KJ745296.1 Aname sp. MYG364 T85262	0.014124	0.006272
RB13	KJ745296.1 Aname sp. MYG364 T85262	0.014124	0.006272
RB09	KJ745296.1 Aname sp. MYG364 T85262	0.019774	0.007400
RB02	KJ745296.1 Aname sp. MYG364 T85262	0.022599	0.007899
RB09	KJ745203.1 Aname sp. MYG342 T52181	0.135593	0.018196
RB02	KJ745203.1 Aname sp. MYG342 T52181	0.138418	0.018355
RB19	KJ745203.1 Aname sp. MYG342 T52181	0.138418	0.018355
RB21	KJ745203.1 Aname sp. MYG342 T52181	0.138418	0.018355
RB21	KJ745231.1 Aname sp. MYG351 T74238	0.138418	0.018355
RB21	KJ745232.1 Aname sp. MYG351 T74241	0.138418	0.018355
RB21	KJ745233.1 Aname sp. MYG351 T74247	0.138418	0.018355
RB21	KJ745287.1 Aname sp. MYG351 T82303	0.138418	0.018355
RB21	KJ745293.1 Aname sp. MYG351 T82309	0.138418	0.018355
RB13	KJ745203.1 Aname sp. MYG342 T52181	0.141243	0.018510
RB13	KJ745231.1 Aname sp. MYG351 T74238	0.141243	0.018510
RB13	KJ745232.1 Aname sp. MYG351 T74241	0.141243	0.018510
RB13	KJ745233.1 Aname sp. MYG351 T74247	0.141243	0.018510
RB13	KJ745287.1 Aname sp. MYG351 T82303	0.141243	0.018510
RB13	KJ745293.1 Aname sp. MYG351 T82309	0.141243	0.018510
RB17	KJ745203.1 Aname sp. MYG342 T52181	0.141243	0.018510
RB17	KJ745231.1 Aname sp. MYG351 T74238	0.141243	0.018510
RB17	KJ745232.1 Aname sp. MYG351 T74241	0.141243	0.018510
RB17	KJ745233.1 Aname sp. MYG351 T74247	0.141243	0.018510
RB17	KJ745287.1 Aname sp. MYG351 T82303	0.141243	0.018510
RB17	KJ745293.1 Aname sp. MYG351 T82309	0.141243	0.018510
RB18	KJ745203.1 Aname sp. MYG342 T52181	0.141243	0.018510
RB18	KJ745231.1 Aname sp. MYG351 T74238	0.141243	0.018510
RB18	KJ745232.1 Aname sp. MYG351 T74241	0.141243	0.018510
RB18	KJ745233.1 Aname sp. MYG351 T74247	0.141243	0.018510
RB18	KJ745287.1 Aname sp. MYG351 T82303	0.141243	0.018510
RB18	KJ745293.1 Aname sp. MYG351 T82309	0.141243	0.018510
RB03	KJ745203.1 Aname sp. MYG342 T52181	0.144068	0.018664
RB03	KJ745231.1 Aname sp. MYG351 T74238	0.144068	0.018664
RB03	KJ745232.1 Aname sp. MYG351 T74241	0.144068	0.018664
RB03	KJ745233.1 Aname sp. MYG351 T74247	0.144068	0.018664
RB03	KJ745287.1 Aname sp. MYG351 T82303	0.144068	0.018664
RB03	KJ745293.1 Aname sp. MYG351 T82309	0.144068	0.018664
RB19	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.144068	0.018664
RB19	KJ745231.1 Aname sp. MYG351 T74238	0.144068	0.018664
RB19	KJ745232.1 Aname sp. MYG351 T74241	0.144068	0.018664
RB19	KJ745233.1 Aname sp. MYG351 T74247	0.144068	0.018664
RB19	KJ745287.1 Aname sp. MYG351 T82303	0.144068	0.018664
RB19	KJ745293.1 Aname sp. MYG351 T82309	0.144068	0.018664
RB19	KJ745299.1 Aname sp. MYG001 T86678	0.144068	0.018664
RB21	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.144068	0.018664
RB21	KJ745299.1 Aname sp. MYG001 T86678	0.144068	0.018664
RB02	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.146893	0.018815
RB03	KJ745429.1 Aname sp. MYG030 voucher T96495	0.146893	0.018815
RB19	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.146893	0.018815
RB19	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.146893	0.018815
RB19	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.146893	0.018815
RB19	KJ744648.1 Aname sp. MYG373 T107087	0.146893	0.018815
RB21	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.146893	0.018815
RB21	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.146893	0.018815
RB21	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.146893	0.018815
RB21	KJ744648.1 Aname sp. MYG373 T107087	0.146893	0.018815
RB13	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.146893	0.018815
RB13	KJ745299.1 Aname sp. MYG001 T86678	0.146893	0.018815
RB17	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.146893	0.018815
RB17	KJ745299.1 Aname sp. MYG001 T86678	0.146893	0.018815
RB18	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.146893	0.018815
RB18	KJ745299.1 Aname sp. MYG001 T86678	0.146893	0.018815
RB02	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.149718	0.018963
RB03	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.149718	0.018963
RB03	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB09	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.149718	0.018963
RB09	KJ745231.1 Aname sp. MYG351 T74238	0.149718	0.018963
RB09	KJ745232.1 Aname sp. MYG351 T74241	0.149718	0.018963
RB09	KJ745233.1 Aname sp. MYG351 T74247	0.149718	0.018963
RB09	KJ745287.1 Aname sp. MYG351 T82303	0.149718	0.018963
RB09	KJ745293.1 Aname sp. MYG351 T82309	0.149718	0.018963
RB19	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.149718	0.018963
RB19	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.149718	0.018963
RB19	KJ744911.1 Aname sp. MYG331 T118812	0.149718	0.018963
RB19	KJ744914.1 Aname sp. MYG331 T118818	0.149718	0.018963
RB19	KJ745375.1 Aname sp. MYG034 T93314	0.149718	0.018963
RB21	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.149718	0.018963
RB21	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.149718	0.018963
RB21	KJ744911.1 Aname sp. MYG331 T118812	0.149718	0.018963
RB21	KJ744914.1 Aname sp. MYG331 T118818	0.149718	0.018963
RB21	KJ745288.1 Aname sp. MYG351 82304	0.149718	0.018963
RB21	KJ745429.1 Aname sp. MYG030 voucher T96495	0.149718	0.018963

Mt Gibson specimen	Reference specimen	p-distance	SE
RB13	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.149718	0.018963
RB13	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.149718	0.018963
RB13	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.149718	0.018963
RB17	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.149718	0.018963
RB17	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.149718	0.018963
RB17	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.149718	0.018963
RB17	KJ744648.1 Aname sp. MYG373 T107087	0.149718	0.018963
RB17	KJ745429.1 Aname sp. MYG030 voucher T96495	0.149718	0.018963
RB18	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.149718	0.018963
RB18	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.149718	0.018963
RB18	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.149718	0.018963
RB18	KJ744648.1 Aname sp. MYG373 T107087	0.149718	0.018963
RB18	KJ745429.1 Aname sp. MYG030 voucher T96495	0.149718	0.018963
RB02	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.152542	0.019110
RB02	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.152542	0.019110
RB02	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.152542	0.019110
RB03	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.152542	0.019110
RB03	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.152542	0.019110
RB03	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.152542	0.019110
RB09	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.152542	0.019110
RB19	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.152542	0.019110
RB19	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.152542	0.019110
RB21	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.152542	0.019110
RB21	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.152542	0.019110
RB13	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.152542	0.019110
RB13	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.152542	0.019110
RB13	KJ744911.1 Aname sp. MYG331 T118812	0.152542	0.019110
RB13	KJ744914.1 Aname sp. MYG331 T118818	0.152542	0.019110
RB17	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.152542	0.019110
RB17	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.152542	0.019110
RB17	KJ744911.1 Aname sp. MYG331 T118812	0.152542	0.019110
RB17	KJ744914.1 Aname sp. MYG331 T118818	0.152542	0.019110
RB18	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.152542	0.019110
RB18	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.152542	0.019110
RB18	KJ744911.1 Aname sp. MYG331 T118812	0.152542	0.019110
RB18	KJ744914.1 Aname sp. MYG331 T118818	0.152542	0.019110
RB02	KJ745231.1 Aname sp. MYG351 T74238	0.152542	0.019110
RB02	KJ745232.1 Aname sp. MYG351 T74241	0.152542	0.019110
RB02	KJ745233.1 Aname sp. MYG351 T74247	0.152542	0.019110
RB02	KJ745287.1 Aname sp. MYG351 T82303	0.152542	0.019110
RB02	KJ745293.1 Aname sp. MYG351 T82309	0.152542	0.019110
RB03	KJ744648.1 Aname sp. MYG373 T107087	0.152542	0.019110
RB09	KJ745429.1 Aname sp. MYG030 voucher T96495	0.152542	0.019110
RB19	KJ745429.1 Aname sp. MYG030 voucher T96495	0.152542	0.019110
RB13	KJ744648.1 Aname sp. MYG373 T107087	0.152542	0.019110
RB13	KJ745288.1 Aname sp. MYG351 82304	0.152542	0.019110
RB13	KJ745375.1 Aname sp. MYG034 T93314	0.152542	0.019110
RB13	KJ745429.1 Aname sp. MYG030 voucher T96495	0.152542	0.019110
RB17	KJ745288.1 Aname sp. MYG351 82304	0.152542	0.019110
RB17	KJ745375.1 Aname sp. MYG034 T93314	0.152542	0.019110
RB18	KJ745288.1 Aname sp. MYG351 82304	0.152542	0.019110
RB18	KJ745375.1 Aname sp. MYG034 T93314	0.152542	0.019110
RB02	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.155367	0.019254
RB02	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.155367	0.019254
RB02	KJ744911.1 Aname sp. MYG331 T118812	0.155367	0.019254
RB02	KJ744914.1 Aname sp. MYG331 T118818	0.155367	0.019254
RB02	KJ745429.1 Aname sp. MYG030 voucher T96495	0.155367	0.019254
RB03	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.155367	0.019254
RB03	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.155367	0.019254
RB03	KJ744911.1 Aname sp. MYG331 T118812	0.155367	0.019254
RB03	KJ744914.1 Aname sp. MYG331 T118818	0.155367	0.019254
RB03	KJ745288.1 Aname sp. MYG351 82304	0.155367	0.019254
RB03	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB09	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.155367	0.019254
RB09	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.155367	0.019254
RB09	KJ744648.1 Aname sp. MYG373 T107087	0.155367	0.019254
RB09	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB09	KJ745288.1 Aname sp. MYG351 82304	0.155367	0.019254
RB09	KJ745299.1 Aname sp. MYG001 T86678	0.155367	0.019254
RB09	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB19	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.155367	0.019254
RB19	KJ744649.1 Aname sp. MYG373 T107089	0.155367	0.019254
RB19	KJ744901.1 Aname sp. MYG331 T118789	0.155367	0.019254
RB19	KJ744902.1 Aname sp. MYG331 T118791	0.155367	0.019254
RB19	KJ745288.1 Aname sp. MYG351 82304	0.155367	0.019254
RB21	KJ744649.1 Aname sp. MYG373 T107089	0.155367	0.019254
RB21	KJ744901.1 Aname sp. MYG331 T118789	0.155367	0.019254
RB21	KJ744902.1 Aname sp. MYG331 T118791	0.155367	0.019254
RB21	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB13	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.155367	0.019254
RB13	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.155367	0.019254
RB13	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB17	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.155367	0.019254
RB17	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.155367	0.019254
RB17	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB18	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.155367	0.019254

Mt Gibson specimen	Reference specimen	p-distance	SE
RB18	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.155367	0.019254
RB18	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB02	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.158192	0.019395
RB02	KJ744648.1 Aname sp. MYG373 T107087	0.158192	0.019395
RB02	KJ745288.1 Aname sp. MYG351 82304	0.158192	0.019395
RB03	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.158192	0.019395
RB03	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.158192	0.019395
RB03	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.158192	0.019395
RB09	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.158192	0.019395
RB09	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.158192	0.019395
RB09	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.158192	0.019395
RB09	KJ744911.1 Aname sp. MYG331 T118812	0.158192	0.019395
RB09	KJ744914.1 Aname sp. MYG331 T118818	0.158192	0.019395
RB09	KJ745198.1:1-658 Aname mainae voucher T42354	0.158192	0.019395
RB19	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.158192	0.019395
RB19	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB19	KJ744909.1 Aname sp. MYG331 T118805	0.158192	0.019395
RB19	KJ744910.1 Aname sp. MYG331 T118811	0.158192	0.019395
RB19	KJ745198.1:1-658 Aname mainae voucher T42354	0.158192	0.019395
RB19	KJ745488.1 Aname ellenae T98894	0.158192	0.019395
RB19	KJ745489.1 Aname ellenae T98895	0.158192	0.019395
RB21	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.158192	0.019395
RB21	KJ744909.1 Aname sp. MYG331 T118805	0.158192	0.019395
RB21	KJ744910.1 Aname sp. MYG331 T118811	0.158192	0.019395
RB21	KJ745198.1:1-658 Aname mainae voucher T42354	0.158192	0.019395
RB13	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB13	KJ744901.1 Aname sp. MYG331 T118789	0.158192	0.019395
RB13	KJ744902.1 Aname sp. MYG331 T118791	0.158192	0.019395
RB13	KJ745488.1 Aname ellenae T98894	0.158192	0.019395
RB13	KJ745489.1 Aname ellenae T98895	0.158192	0.019395
RB17	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB17	KJ744649.1 Aname sp. MYG373 T107089	0.158192	0.019395
RB17	KJ744901.1 Aname sp. MYG331 T118789	0.158192	0.019395
RB17	KJ744902.1 Aname sp. MYG331 T118791	0.158192	0.019395
RB17	KJ745488.1 Aname ellenae T98894	0.158192	0.019395
RB17	KJ745489.1 Aname ellenae T98895	0.158192	0.019395
RB18	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB18	KJ744649.1 Aname sp. MYG373 T107089	0.158192	0.019395
RB18	KJ744901.1 Aname sp. MYG331 T118789	0.158192	0.019395
RB18	KJ744902.1 Aname sp. MYG331 T118791	0.158192	0.019395
RB18	KJ745488.1 Aname ellenae T98894	0.158192	0.019395
RB18	KJ745489.1 Aname ellenae T98895	0.158192	0.019395
RB02	KJ745299.1 Aname sp. MYG001 T86678	0.158192	0.019395
RB02	KJ745375.1 Aname sp. MYG034 T93314	0.158192	0.019395
RB09	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.158192	0.019395
RB19	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.158192	0.019395
RB02	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB13	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB17	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB18	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB02	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.161017	0.019535
RB02	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.161017	0.019535
RB02	KJ744901.1 Aname sp. MYG331 T118789	0.161017	0.019535
RB02	KJ744902.1 Aname sp. MYG331 T118791	0.161017	0.019535
RB03	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.161017	0.019535
RB03	KJ744649.1 Aname sp. MYG373 T107089	0.161017	0.019535
RB03	KJ744901.1 Aname sp. MYG331 T118789	0.161017	0.019535
RB03	KJ744902.1 Aname sp. MYG331 T118791	0.161017	0.019535
RB03	KJ745488.1 Aname ellenae T98894	0.161017	0.019535
RB03	KJ745489.1 Aname ellenae T98895	0.161017	0.019535
RB09	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.161017	0.019535
RB09	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.161017	0.019535
RB21	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.161017	0.019535
RB21	KJ744571.1 Aname mellosa T103906	0.161017	0.019535
RB21	KJ744982.1 Aname mellosa T122207	0.161017	0.019535
RB21	KJ745488.1 Aname ellenae T98894	0.161017	0.019535
RB21	KJ745489.1 Aname ellenae T98895	0.161017	0.019535
RB13	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.161017	0.019535
RB13	KJ744649.1 Aname sp. MYG373 T107089	0.161017	0.019535
RB13	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.161017	0.019535
RB13	KJ744909.1 Aname sp. MYG331 T118805	0.161017	0.019535
RB13	KJ744910.1 Aname sp. MYG331 T118811	0.161017	0.019535
RB17	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.161017	0.019535
RB17	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.161017	0.019535
RB17	KJ744909.1 Aname sp. MYG331 T118805	0.161017	0.019535
RB17	KJ744910.1 Aname sp. MYG331 T118811	0.161017	0.019535
RB18	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.161017	0.019535
RB18	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.161017	0.019535
RB18	KJ744909.1 Aname sp. MYG331 T118805	0.161017	0.019535
RB18	KJ744910.1 Aname sp. MYG331 T118811	0.161017	0.019535
RB02	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.163842	0.019672
RB02	KJ744909.1 Aname sp. MYG331 T118805	0.163842	0.019672
RB02	KJ744910.1 Aname sp. MYG331 T118811	0.163842	0.019672
RB03	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.163842	0.019672
RB03	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.163842	0.019672
RB03	KJ744909.1 Aname sp. MYG331 T118805	0.163842	0.019672

Mt Gibson specimen	Reference specimen	p-distance	SE
RB03	KJ744910.1 Aname sp. MYG331 T118811	0.163842	0.019672
RB03	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB09	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.163842	0.019672
RB09	KJ744649.1 Aname sp. MYG373 T107089	0.163842	0.019672
RB09	KJ744901.1 Aname sp. MYG331 T118789	0.163842	0.019672
RB09	KJ744902.1 Aname sp. MYG331 T118791	0.163842	0.019672
RB09	KJ745488.1 Aname ellenae T98894	0.163842	0.019672
RB09	KJ745489.1 Aname ellenae T98895	0.163842	0.019672
RB19	KJ744571.1 Aname mellosa T103906	0.163842	0.019672
RB19	KJ744982.1 Aname mellosa T122207	0.163842	0.019672
RB19	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB21	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.163842	0.019672
RB21	KJ744432.1 Aname sp. MYG368 voucher T102108	0.163842	0.019672
RB21	KJ744577.1 Aname mellosa T103913	0.163842	0.019672
RB21	KJ744651.1 Aname mellosa T107182	0.163842	0.019672
RB21	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.163842	0.019672
RB13	KJ744571.1 Aname mellosa T103906	0.163842	0.019672
RB13	KJ744982.1 Aname mellosa T122207	0.163842	0.019672
RB13	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB17	KJ744571.1 Aname mellosa T103906	0.163842	0.019672
RB17	KJ744982.1 Aname mellosa T122207	0.163842	0.019672
RB17	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB18	KJ744571.1 Aname mellosa T103906	0.163842	0.019672
RB18	KJ744982.1 Aname mellosa T122207	0.163842	0.019672
RB18	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB02	KJ744571.1 Aname mellosa T103906	0.166667	0.019808
RB03	KJ744571.1 Aname mellosa T103906	0.166667	0.019808
RB19	KJ744432.1 Aname sp. MYG368 voucher T102108	0.166667	0.019808
RB19	KJ744577.1 Aname mellosa T103913	0.166667	0.019808
RB19	KJ744651.1 Aname mellosa T107182	0.166667	0.019808
RB19	KJ745240.1 Aname sp. MYG177 voucher T74758	0.166667	0.019808
RB21	KJ745240.1 Aname sp. MYG177 voucher T74758	0.166667	0.019808
RB13	KJ744432.1 Aname sp. MYG368 voucher T102108	0.166667	0.019808
RB13	KJ744577.1 Aname mellosa T103913	0.166667	0.019808
RB13	KJ744651.1 Aname mellosa T107182	0.166667	0.019808
RB17	KJ744432.1 Aname sp. MYG368 voucher T102108	0.166667	0.019808
RB17	KJ744577.1 Aname mellosa T103913	0.166667	0.019808
RB17	KJ744651.1 Aname mellosa T107182	0.166667	0.019808
RB18	KJ744432.1 Aname sp. MYG368 voucher T102108	0.166667	0.019808
RB18	KJ744577.1 Aname mellosa T103913	0.166667	0.019808
RB18	KJ744651.1 Aname mellosa T107182	0.166667	0.019808
RB02	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.166667	0.019808
RB02	KJ744649.1 Aname sp. MYG373 T107089	0.166667	0.019808
RB02	KJ745488.1 Aname ellenae T98894	0.166667	0.019808
RB02	KJ745489.1 Aname ellenae T98895	0.166667	0.019808
RB03	KJ744982.1 Aname mellosa T122207	0.166667	0.019808
RB03	KJ745479.1 Aname ellenae T98883	0.166667	0.019808
RB09	KJ744909.1 Aname sp. MYG331 T118805	0.166667	0.019808
RB09	KJ744910.1 Aname sp. MYG331 T118811	0.166667	0.019808
RB21	KJ744788.1:239-658 Aname mellosa voucher T113648	0.166667	0.019808
RB21	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB21	KJ745170.1 Aname mellosa T126301	0.166667	0.019808
RB21	KJ745479.1 Aname ellenae T98883	0.166667	0.019808
RB02	KJ744577.1 Aname mellosa T103913	0.169492	0.019941
RB03	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.169492	0.019941
RB03	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB03	KJ744577.1 Aname mellosa T103913	0.169492	0.019941
RB03	KJ744651.1 Aname mellosa T107182	0.169492	0.019941
RB09	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB09	KJ744982.1 Aname mellosa T122207	0.169492	0.019941
RB09	KJ745479.1 Aname ellenae T98883	0.169492	0.019941
RB19	KJ744788.1:239-658 Aname mellosa voucher T113648	0.169492	0.019941
RB19	KJ744926.1:2-658 Aname mellosa voucher T119710	0.169492	0.019941
RB19	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.169492	0.019941
RB19	KJ745170.1 Aname mellosa T126301	0.169492	0.019941
RB21	KJ744623.1:239-658 Aname mellosa voucher T105871	0.169492	0.019941
RB21	KJ744775.1:239-658 Aname mellosa voucher T113629	0.169492	0.019941
RB21	KJ744781.1 Aname mellosa T113636	0.169492	0.019941
RB21	KJ744785.1:239-658 Aname mellosa voucher T113642	0.169492	0.019941
RB21	KJ744803.1:2-658 Aname mellosa voucher T113666	0.169492	0.019941
RB21	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.169492	0.019941
RB13	KJ744788.1:239-658 Aname mellosa voucher T113648	0.169492	0.019941
RB13	KJ744926.1:2-658 Aname mellosa voucher T119710	0.169492	0.019941
RB13	KJ745170.1 Aname mellosa T126301	0.169492	0.019941
RB13	KJ745240.1 Aname sp. MYG177 voucher T74758	0.169492	0.019941
RB17	KJ744788.1:239-658 Aname mellosa voucher T113648	0.169492	0.019941
RB17	KJ744926.1:2-658 Aname mellosa voucher T119710	0.169492	0.019941
RB17	KJ745170.1 Aname mellosa T126301	0.169492	0.019941
RB17	KJ745240.1 Aname sp. MYG177 voucher T74758	0.169492	0.019941
RB18	KJ744788.1:239-658 Aname mellosa voucher T113648	0.169492	0.019941
RB18	KJ744926.1:2-658 Aname mellosa voucher T119710	0.169492	0.019941
RB18	KJ745170.1 Aname mellosa T126301	0.169492	0.019941
RB18	KJ745240.1 Aname sp. MYG177 voucher T74758	0.169492	0.019941
RB02	KJ744432.1 Aname sp. MYG368 voucher T102108	0.172316	0.020072
RB03	KJ745240.1 Aname sp. MYG177 voucher T74758	0.172316	0.020072
RB09	KJ744577.1 Aname mellosa T103913	0.172316	0.020072

Mt Gibson specimen	Reference specimen	p-distance	SE
RB09	KJ744651.1 Aname mellosa T107182	0.172316	0.020072
RB09	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.172316	0.020072
RB21	KJ744398.1:242-658 Aname mellosa voucher T101163	0.172316	0.020072
RB21	KJ745146.1:2-658 Aname mellosa voucher T126262	0.172316	0.020072
RB13	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.172316	0.020072
RB17	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.172316	0.020072
RB18	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.172316	0.020072
RB02	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.172316	0.020072
RB02	KJ744499.1 Aname sp. MYG339 voucher T103191	0.172316	0.020072
RB02	KJ744625.1 Aname sp. MYG339 voucher T105873	0.172316	0.020072
RB02	KJ744638.1 Aname sp. MYG339 voucher T105900	0.172316	0.020072
RB02	KJ744982.1 Aname mellosa T122207	0.172316	0.020072
RB02	KJ745479.1 Aname ellenae T98883	0.172316	0.020072
RB03	KJ744788.1:239-658 Aname mellosa voucher T113648	0.172316	0.020072
RB03	KJ744926.1:2-658 Aname mellosa voucher T119710	0.172316	0.020072
RB03	KJ745170.1 Aname mellosa T126301	0.172316	0.020072
RB19	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.172316	0.020072
RB19	KJ744499.1 Aname sp. MYG339 voucher T103191	0.172316	0.020072
RB19	KJ744623.1:239-658 Aname mellosa voucher T105871	0.172316	0.020072
RB19	KJ744625.1 Aname sp. MYG339 voucher T105873	0.172316	0.020072
RB19	KJ744638.1 Aname sp. MYG339 voucher T105900	0.172316	0.020072
RB19	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.172316	0.020072
RB19	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.172316	0.020072
RB19	KJ744775.1:239-658 Aname mellosa voucher T113629	0.172316	0.020072
RB19	KJ744781.1 Aname mellosa T113636	0.172316	0.020072
RB19	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB19	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB21	KJ744661.1:240-658 Aname mellosa voucher T107942	0.172316	0.020072
RB21	KJ744662.1:240-658 Aname mellosa voucher T107945	0.172316	0.020072
RB21	KJ744669.1:242-658 Aname mellosa voucher T107968	0.172316	0.020072
RB21	KJ744791.1:239-658 Aname mellosa voucher T113654	0.172316	0.020072
RB21	KJ745012.1 Aname mellosa T122263	0.172316	0.020072
RB21	KJ745134.1:242-658 Aname mellosa voucher T126250	0.172316	0.020072
RB21	KJ745143.1:242-658 Aname mellosa voucher T126259	0.172316	0.020072
RB13	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.172316	0.020072
RB13	KJ744623.1:239-658 Aname mellosa voucher T105871	0.172316	0.020072
RB13	KJ744775.1:239-658 Aname mellosa voucher T113629	0.172316	0.020072
RB13	KJ744781.1 Aname mellosa T113636	0.172316	0.020072
RB13	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB13	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB17	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.172316	0.020072
RB17	KJ744623.1:239-658 Aname mellosa voucher T105871	0.172316	0.020072
RB17	KJ744775.1:239-658 Aname mellosa voucher T113629	0.172316	0.020072
RB17	KJ744781.1 Aname mellosa T113636	0.172316	0.020072
RB17	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB17	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB18	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.172316	0.020072
RB18	KJ744623.1:239-658 Aname mellosa voucher T105871	0.172316	0.020072
RB18	KJ744775.1:239-658 Aname mellosa voucher T113629	0.172316	0.020072
RB18	KJ744781.1 Aname mellosa T113636	0.172316	0.020072
RB18	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB18	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB02	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.175141	0.020201
RB02	KJ744612.1 Aname sp. MYG339 voucher T105852	0.175141	0.020201
RB02	KJ744615.1 Aname sp. MYG339 voucher T105858	0.175141	0.020201
RB02	KJ744616.1 Aname sp. MYG339 voucher T105859	0.175141	0.020201
RB02	KJ744618.1 Aname sp. MYG339 voucher T105862	0.175141	0.020201
RB02	KJ744643.1 Aname sp. MYG339 voucher T105906	0.175141	0.020201
RB02	KJ744651.1 Aname mellosa T107182	0.175141	0.020201
RB02	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.175141	0.020201
RB03	KJ744623.1:239-658 Aname mellosa voucher T105871	0.175141	0.020201
RB03	KJ744775.1:239-658 Aname mellosa voucher T113629	0.175141	0.020201
RB03	KJ744781.1 Aname mellosa T113636	0.175141	0.020201
RB03	KJ744785.1:239-658 Aname mellosa voucher T113642	0.175141	0.020201
RB03	KJ744803.1:2-658 Aname mellosa voucher T113666	0.175141	0.020201
RB03	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.175141	0.020201
RB09	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB09	KJ744432.1 Aname sp. MYG368 voucher T102108	0.175141	0.020201
RB09	KJ744499.1 Aname sp. MYG339 voucher T103191	0.175141	0.020201
RB09	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB09	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB09	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB09	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB09	KJ744788.1:239-658 Aname mellosa voucher T113648	0.175141	0.020201
RB09	KJ744926.1:2-658 Aname mellosa voucher T119710	0.175141	0.020201
RB09	KJ745170.1 Aname mellosa T126301	0.175141	0.020201
RB09	KJ745240.1 Aname sp. MYG177 voucher T74758	0.175141	0.020201
RB19	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.175141	0.020201
RB19	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.175141	0.020201
RB19	KJ744398.1:242-658 Aname mellosa voucher T101163	0.175141	0.020201
RB19	KJ744612.1 Aname sp. MYG339 voucher T105852	0.175141	0.020201
RB19	KJ744615.1 Aname sp. MYG339 voucher T105858	0.175141	0.020201
RB19	KJ744616.1 Aname sp. MYG339 voucher T105859	0.175141	0.020201
RB19	KJ744618.1 Aname sp. MYG339 voucher T105862	0.175141	0.020201
RB19	KJ744643.1 Aname sp. MYG339 voucher T105906	0.175141	0.020201
RB19	KJ744661.1:240-658 Aname mellosa voucher T107942	0.175141	0.020201

Mt Gibson specimen	Reference specimen	p-distance	SE
RB19	KJ744662.1:240-658 Aname mellosa voucher T107945	0.175141	0.020201
RB19	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB19	KJ744718.1 Aname sp. MYG00 T110197	0.175141	0.020201
RB19	KJ744791.1:239-658 Aname mellosa voucher T113654	0.175141	0.020201
RB19	KJ745012.1 Aname mellosa T122263	0.175141	0.020201
RB19	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB19	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB19	KJ745146.1:2-658 Aname mellosa voucher T126262	0.175141	0.020201
RB19	KJ745242.1 Aname sp. MYG177 T76820	0.175141	0.020201
RB19	KJ745370.1 Aname mellosa T92455	0.175141	0.020201
RB19	KJ745371.1 Aname mellosa T92456	0.175141	0.020201
RB19	KJ745396.1 Aname mellosa T95400	0.175141	0.020201
RB19	KJ745398.1 Aname mellosa T95402	0.175141	0.020201
RB21	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.175141	0.020201
RB21	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.175141	0.020201
RB21	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB21	KJ744611.1 Aname mellosa T10585	0.175141	0.020201
RB21	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB21	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB21	KJ744650.1:1-658 Aname mellosa voucher T107181	0.175141	0.020201
RB21	KJ744718.1 Aname sp. MYG00 T110197	0.175141	0.020201
RB21	KJ744977.1:2-658 Aname mellosa voucher T122200	0.175141	0.020201
RB21	KJ745051.1 Aname mellosa T122823	0.175141	0.020201
RB21	KJ745093.1 Aname mellosa T122870	0.175141	0.020201
RB21	KJ745153.1:242-658 Aname mellosa voucher T126271	0.175141	0.020201
RB21	KJ745155.1:2-658 Aname mellosa voucher T126273	0.175141	0.020201
RB21	KJ745159.1:2-658 Aname mellosa voucher T126279	0.175141	0.020201
RB21	KJ745160.1:242-658 Aname mellosa voucher T126280	0.175141	0.020201
RB21	KJ745184.1:2-658 Aname mellosa voucher T127219	0.175141	0.020201
RB21	KJ745242.1 Aname sp. MYG177 T76820	0.175141	0.020201
RB21	KJ745370.1 Aname mellosa T92455	0.175141	0.020201
RB21	KJ745371.1 Aname mellosa T92456	0.175141	0.020201
RB21	KJ745396.1 Aname mellosa T95400	0.175141	0.020201
RB21	KJ745398.1 Aname mellosa T95402	0.175141	0.020201
RB13	KJ744398.1:242-658 Aname mellosa voucher T101163	0.175141	0.020201
RB13	KJ744499.1 Aname sp. MYG339 voucher T103191	0.175141	0.020201
RB13	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB13	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB13	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB13	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB13	KJ744661.1:240-658 Aname mellosa voucher T107942	0.175141	0.020201
RB13	KJ744662.1:240-658 Aname mellosa voucher T107945	0.175141	0.020201
RB13	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB13	KJ744791.1:239-658 Aname mellosa voucher T113654	0.175141	0.020201
RB13	KJ745012.1 Aname mellosa T122263	0.175141	0.020201
RB13	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB13	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB13	KJ745146.1:2-658 Aname mellosa voucher T126262	0.175141	0.020201
RB17	KJ744398.1:242-658 Aname mellosa voucher T101163	0.175141	0.020201
RB17	KJ744499.1 Aname sp. MYG339 voucher T103191	0.175141	0.020201
RB17	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB17	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB17	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB17	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB17	KJ744661.1:240-658 Aname mellosa voucher T107942	0.175141	0.020201
RB17	KJ744662.1:240-658 Aname mellosa voucher T107945	0.175141	0.020201
RB17	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB17	KJ744791.1:239-658 Aname mellosa voucher T113654	0.175141	0.020201
RB17	KJ745012.1 Aname mellosa T122263	0.175141	0.020201
RB17	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB17	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB17	KJ745146.1:2-658 Aname mellosa voucher T126262	0.175141	0.020201
RB18	KJ744398.1:242-658 Aname mellosa voucher T101163	0.175141	0.020201
RB18	KJ744499.1 Aname sp. MYG339 voucher T103191	0.175141	0.020201
RB18	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB18	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB18	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB18	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB18	KJ744661.1:240-658 Aname mellosa voucher T107942	0.175141	0.020201
RB18	KJ744662.1:240-658 Aname mellosa voucher T107945	0.175141	0.020201
RB18	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB18	KJ744791.1:239-658 Aname mellosa voucher T113654	0.175141	0.020201
RB18	KJ745012.1 Aname mellosa T122263	0.175141	0.020201
RB18	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB18	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB18	KJ745146.1:2-658 Aname mellosa voucher T126262	0.175141	0.020201
RB02	KJ745170.1 Aname mellosa T126301	0.177966	0.020329
RB02	KJ745240.1 Aname sp. MYG177 voucher T74758	0.177966	0.020329
RB03	KJ744398.1:242-658 Aname mellosa voucher T101163	0.177966	0.020329
RB03	KJ745146.1:2-658 Aname mellosa voucher T126262	0.177966	0.020329
RB09	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.177966	0.020329
RB19	KJ744409.1 Aname sp. MYG001 T102040	0.177966	0.020329
RB19	KJ744412.1 Aname sp. MYG001 102044	0.177966	0.020329
RB19	KJ744650.1:1-658 Aname mellosa voucher T107181	0.177966	0.020329
RB19	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB19	KJ745155.1:2-658 Aname mellosa voucher T126273	0.177966	0.020329

Mt Gibson specimen	Reference specimen	p-distance	SE
RB19	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB19	KJ745184.1:2-658 Aname mellosa voucher T127219	0.177966	0.020329
RB19	KJ745241.1 Aname sp. MYG177 voucher T76819	0.177966	0.020329
RB19	KJ745243.1 Aname sp. MYG177 voucher T76821	0.177966	0.020329
RB19	KJ745246.1 Aname sp. MYG177 voucher T76824	0.177966	0.020329
RB19	KJ745247.1 Aname sp. MYG177 voucher T76825	0.177966	0.020329
RB19	KJ745248.1 Aname sp. MYG177 voucher T76826	0.177966	0.020329
RB21	KJ744409.1 Aname sp. MYG001 T102040	0.177966	0.020329
RB21	KJ744412.1 Aname sp. MYG001 102044	0.177966	0.020329
RB21	KJ744461.1 Aname mellosa voucher T102745	0.177966	0.020329
RB21	KJ744491.1 Aname mellosa T103177	0.177966	0.020329
RB21	KJ745004.1:2-658 Aname mellosa voucher T122242	0.177966	0.020329
RB21	KJ745241.1 Aname sp. MYG177 voucher T76819	0.177966	0.020329
RB21	KJ745243.1 Aname sp. MYG177 voucher T76821	0.177966	0.020329
RB21	KJ745246.1 Aname sp. MYG177 voucher T76824	0.177966	0.020329
RB21	KJ745247.1 Aname sp. MYG177 voucher T76825	0.177966	0.020329
RB21	KJ745248.1 Aname sp. MYG177 voucher T76826	0.177966	0.020329
RB13	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.177966	0.020329
RB13	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.177966	0.020329
RB13	KJ744650.1:1-658 Aname mellosa voucher T107181	0.177966	0.020329
RB13	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB13	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB13	KJ745155.1:2-658 Aname mellosa voucher T126273	0.177966	0.020329
RB13	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB13	KJ745184.1:2-658 Aname mellosa voucher T127219	0.177966	0.020329
RB13	KJ745242.1 Aname sp. MYG177 T76820	0.177966	0.020329
RB13	KJ745370.1 Aname mellosa T92455	0.177966	0.020329
RB13	KJ745371.1 Aname mellosa T92456	0.177966	0.020329
RB13	KJ745396.1 Aname mellosa T95400	0.177966	0.020329
RB13	KJ745398.1 Aname mellosa T95402	0.177966	0.020329
RB17	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.177966	0.020329
RB17	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.177966	0.020329
RB17	KJ744650.1:1-658 Aname mellosa voucher T107181	0.177966	0.020329
RB17	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB17	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB17	KJ745155.1:2-658 Aname mellosa voucher T126273	0.177966	0.020329
RB17	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB17	KJ745184.1:2-658 Aname mellosa voucher T127219	0.177966	0.020329
RB17	KJ745242.1 Aname sp. MYG177 T76820	0.177966	0.020329
RB17	KJ745370.1 Aname mellosa T92455	0.177966	0.020329
RB17	KJ745371.1 Aname mellosa T92456	0.177966	0.020329
RB17	KJ745396.1 Aname mellosa T95400	0.177966	0.020329
RB17	KJ745398.1 Aname mellosa T95402	0.177966	0.020329
RB18	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.177966	0.020329
RB18	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.177966	0.020329
RB18	KJ744650.1:1-658 Aname mellosa voucher T107181	0.177966	0.020329
RB18	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB18	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB18	KJ745155.1:2-658 Aname mellosa voucher T126273	0.177966	0.020329
RB18	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB18	KJ745184.1:2-658 Aname mellosa voucher T127219	0.177966	0.020329
RB18	KJ745242.1 Aname sp. MYG177 T76820	0.177966	0.020329
RB18	KJ745370.1 Aname mellosa T92455	0.177966	0.020329
RB18	KJ745371.1 Aname mellosa T92456	0.177966	0.020329
RB18	KJ745396.1 Aname mellosa T95400	0.177966	0.020329
RB18	KJ745398.1 Aname mellosa T95402	0.177966	0.020329
RB02	KJ744637.1 Aname sp. MYG339 voucher T105899	0.177966	0.020329
RB02	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.177966	0.020329
RB02	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.177966	0.020329
RB02	KJ744788.1:239-658 Aname mellosa voucher T113648	0.177966	0.020329
RB02	KJ744926.1:2-658 Aname mellosa voucher T119710	0.177966	0.020329
RB03	KJ744499.1 Aname sp. MYG339 voucher T103191	0.177966	0.020329
RB03	KJ744625.1 Aname sp. MYG339 voucher T105873	0.177966	0.020329
RB03	KJ744638.1 Aname sp. MYG339 voucher T105900	0.177966	0.020329
RB03	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.177966	0.020329
RB03	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.177966	0.020329
RB03	KJ744661.1:240-658 Aname mellosa voucher T107942	0.177966	0.020329
RB03	KJ744662.1:240-658 Aname mellosa voucher T107945	0.177966	0.020329
RB03	KJ744669.1:242-658 Aname mellosa voucher T107968	0.177966	0.020329
RB03	KJ744791.1:239-658 Aname mellosa voucher T113654	0.177966	0.020329
RB03	KJ745012.1 Aname mellosa T122263	0.177966	0.020329
RB03	KJ745134.1:242-658 Aname mellosa voucher T126250	0.177966	0.020329
RB03	KJ745143.1:242-658 Aname mellosa voucher T126259	0.177966	0.020329
RB09	KJ744612.1 Aname sp. MYG339 voucher T105852	0.177966	0.020329
RB09	KJ744615.1 Aname sp. MYG339 voucher T105858	0.177966	0.020329
RB09	KJ744616.1 Aname sp. MYG339 voucher T105859	0.177966	0.020329
RB09	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB09	KJ744623.1:239-658 Aname mellosa voucher T105871	0.177966	0.020329
RB09	KJ744643.1 Aname sp. MYG339 voucher T105906	0.177966	0.020329
RB09	KJ744775.1:239-658 Aname mellosa voucher T113629	0.177966	0.020329
RB09	KJ744781.1 Aname mellosa T113636	0.177966	0.020329
RB09	KJ744785.1:239-658 Aname mellosa voucher T113642	0.177966	0.020329
RB09	KJ744803.1:2-658 Aname mellosa voucher T113666	0.177966	0.020329
RB19	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB19	KJ744637.1 Aname sp. MYG339 voucher T105899	0.177966	0.020329
RB19	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329

Mt Gibson specimen	Reference specimen	p-distance	SE
RB19	KJ744977.1:2-658 Aname mellosa voucher T122200	0.177966	0.020329
RB19	KJ745051.1 Aname mellosa T122823	0.177966	0.020329
RB19	KJ745093.1 Aname mellosa T122870	0.177966	0.020329
RB19	KJ745159.1:2-658 Aname mellosa voucher T126279	0.177966	0.020329
RB21	KJ744394.1 Aname mellosa T101158	0.177966	0.020329
RB21	KJ744474.1:2-658 Aname mellosa voucher T102834	0.177966	0.020329
RB21	KJ744499.1 Aname sp. MYG339 voucher T103191	0.177966	0.020329
RB21	KJ744625.1 Aname sp. MYG339 voucher T105873	0.177966	0.020329
RB21	KJ744630.1 Aname mellosa T105886	0.177966	0.020329
RB21	KJ744638.1 Aname sp. MYG339 voucher T105900	0.177966	0.020329
RB21	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329
RB21	KJ744987.1 Aname mellosa T122215	0.177966	0.020329
RB21	KJ744990.1:240-658 Aname mellosa voucher T122219	0.177966	0.020329
RB21	KJ745365.1 Aname mellosa T92127	0.177966	0.020329
RB13	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB13	KJ744612.1 Aname sp. MYG339 voucher T105852	0.177966	0.020329
RB13	KJ744615.1 Aname sp. MYG339 voucher T105858	0.177966	0.020329
RB13	KJ744616.1 Aname sp. MYG339 voucher T105859	0.177966	0.020329
RB13	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB13	KJ744643.1 Aname sp. MYG339 voucher T105906	0.177966	0.020329
RB13	KJ744977.1:2-658 Aname mellosa voucher T122200	0.177966	0.020329
RB13	KJ745051.1 Aname mellosa T122823	0.177966	0.020329
RB13	KJ745093.1 Aname mellosa T122870	0.177966	0.020329
RB13	KJ745159.1:2-658 Aname mellosa voucher T126279	0.177966	0.020329
RB17	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB17	KJ744612.1 Aname sp. MYG339 voucher T105852	0.177966	0.020329
RB17	KJ744615.1 Aname sp. MYG339 voucher T105858	0.177966	0.020329
RB17	KJ744616.1 Aname sp. MYG339 voucher T105859	0.177966	0.020329
RB17	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB17	KJ744643.1 Aname sp. MYG339 voucher T105906	0.177966	0.020329
RB17	KJ744977.1:2-658 Aname mellosa voucher T122200	0.177966	0.020329
RB17	KJ745051.1 Aname mellosa T122823	0.177966	0.020329
RB17	KJ745093.1 Aname mellosa T122870	0.177966	0.020329
RB17	KJ745159.1:2-658 Aname mellosa voucher T126279	0.177966	0.020329
RB18	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB18	KJ744612.1 Aname sp. MYG339 voucher T105852	0.177966	0.020329
RB18	KJ744615.1 Aname sp. MYG339 voucher T105858	0.177966	0.020329
RB18	KJ744616.1 Aname sp. MYG339 voucher T105859	0.177966	0.020329
RB18	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB18	KJ744643.1 Aname sp. MYG339 voucher T105906	0.177966	0.020329
RB18	KJ744977.1:2-658 Aname mellosa voucher T122200	0.177966	0.020329
RB18	KJ745051.1 Aname mellosa T122823	0.177966	0.020329
RB18	KJ745093.1 Aname mellosa T122870	0.177966	0.020329
RB18	KJ745159.1:2-658 Aname mellosa voucher T126279	0.177966	0.020329
RB02	KJ744623.1:239-658 Aname mellosa voucher T105871	0.180791	0.020454
RB02	KJ744635.1 Aname sp. MYG339 voucher T105893	0.180791	0.020454
RB02	KJ744775.1:239-658 Aname mellosa voucher T113629	0.180791	0.020454
RB02	KJ744781.1 Aname mellosa T113636	0.180791	0.020454
RB02	KJ744785.1:239-658 Aname mellosa voucher T113642	0.180791	0.020454
RB02	KJ744803.1:2-658 Aname mellosa voucher T113666	0.180791	0.020454
RB02	KJ745242.1 Aname sp. MYG177 T76820	0.180791	0.020454
RB03	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.180791	0.020454
RB03	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.180791	0.020454
RB03	KJ744611.1 Aname mellosa T10585	0.180791	0.020454
RB03	KJ744612.1 Aname sp. MYG339 voucher T105852	0.180791	0.020454
RB03	KJ744615.1 Aname sp. MYG339 voucher T105858	0.180791	0.020454
RB03	KJ744616.1 Aname sp. MYG339 voucher T105859	0.180791	0.020454
RB03	KJ744618.1 Aname sp. MYG339 voucher T105862	0.180791	0.020454
RB03	KJ744643.1 Aname sp. MYG339 voucher T105906	0.180791	0.020454
RB03	KJ744650.1:1-658 Aname mellosa voucher T107181	0.180791	0.020454
RB03	KJ744718.1 Aname sp. MYG00 T110197	0.180791	0.020454
RB03	KJ744977.1:2-658 Aname mellosa voucher T122200	0.180791	0.020454
RB03	KJ745051.1 Aname mellosa T122823	0.180791	0.020454
RB03	KJ745093.1 Aname mellosa T122870	0.180791	0.020454
RB03	KJ745153.1:242-658 Aname mellosa voucher T126271	0.180791	0.020454
RB03	KJ745155.1:2-658 Aname mellosa voucher T126273	0.180791	0.020454
RB03	KJ745159.1:2-658 Aname mellosa voucher T126279	0.180791	0.020454
RB03	KJ745160.1:242-658 Aname mellosa voucher T126280	0.180791	0.020454
RB03	KJ745184.1:2-658 Aname mellosa voucher T127219	0.180791	0.020454
RB03	KJ745242.1 Aname sp. MYG177 T76820	0.180791	0.020454
RB03	KJ745370.1 Aname mellosa T92455	0.180791	0.020454
RB03	KJ745371.1 Aname mellosa T92456	0.180791	0.020454
RB03	KJ745396.1 Aname mellosa T95400	0.180791	0.020454
RB03	KJ745398.1 Aname mellosa T95402	0.180791	0.020454
RB09	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.180791	0.020454
RB09	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.180791	0.020454
RB09	KJ744398.1:242-658 Aname mellosa voucher T101163	0.180791	0.020454
RB09	KJ744461.1 Aname mellosa voucher T102745	0.180791	0.020454
RB09	KJ744637.1 Aname sp. MYG339 voucher T105899	0.180791	0.020454
RB09	KJ744661.1:240-658 Aname mellosa voucher T107942	0.180791	0.020454
RB09	KJ744662.1:240-658 Aname mellosa voucher T107945	0.180791	0.020454
RB09	KJ744669.1:242-658 Aname mellosa voucher T107968	0.180791	0.020454
RB09	KJ744718.1 Aname sp. MYG00 T110197	0.180791	0.020454
RB09	KJ744791.1:239-658 Aname mellosa voucher T113654	0.180791	0.020454
RB09	KJ745012.1 Aname mellosa T122263	0.180791	0.020454
RB09	KJ745134.1:242-658 Aname mellosa voucher T126250	0.180791	0.020454

Mt Gibson specimen	Reference specimen	p-distance	SE
RB09	KJ745143.1:242-658 Aname mellosa voucher T126259	0.180791	0.020454
RB09	KJ745146.1:2-658 Aname mellosa voucher T126262	0.180791	0.020454
RB09	KJ745370.1 Aname mellosa T92455	0.180791	0.020454
RB09	KJ745371.1 Aname mellosa T92456	0.180791	0.020454
RB09	KJ745396.1 Aname mellosa T95400	0.180791	0.020454
RB09	KJ745398.1 Aname mellosa T95402	0.180791	0.020454
RB19	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.180791	0.020454
RB19	KJ744394.1 Aname mellosa T101158	0.180791	0.020454
RB19	KJ744461.1 Aname mellosa voucher T102745	0.180791	0.020454
RB19	KJ744474.1:2-658 Aname mellosa voucher T102834	0.180791	0.020454
RB19	KJ744491.1 Aname mellosa T103177	0.180791	0.020454
RB19	KJ744630.1 Aname mellosa T105886	0.180791	0.020454
RB19	KJ744635.1 Aname sp. MYG339 voucher T105893	0.180791	0.020454
RB19	KJ744720.1 Aname sp. MYG001 T110201	0.180791	0.020454
RB19	KJ744722.1 Aname sp. MYG001 T110203	0.180791	0.020454
RB19	KJ744724.1 Aname sp. MYG001 T110206	0.180791	0.020454
RB19	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB19	KJ744987.1 Aname mellosa T122215	0.180791	0.020454
RB19	KJ744990.1:240-658 Aname mellosa voucher T122219	0.180791	0.020454
RB19	KJ745004.1:2-658 Aname mellosa voucher T122242	0.180791	0.020454
RB19	KJ745256.1 Aname sp. MYG177 voucher T77080	0.180791	0.020454
RB19	KJ745365.1 Aname mellosa T92127	0.180791	0.020454
RB21	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.180791	0.020454
RB21	KJ744445.1 Aname mellosa voucher T102729	0.180791	0.020454
RB21	KJ744473.1:2-658 Aname mellosa voucher T102833	0.180791	0.020454
RB21	KJ744612.1 Aname sp. MYG339 voucher T105852	0.180791	0.020454
RB21	KJ744615.1 Aname sp. MYG339 voucher T105858	0.180791	0.020454
RB21	KJ744616.1 Aname sp. MYG339 voucher T105859	0.180791	0.020454
RB21	KJ744618.1 Aname sp. MYG339 voucher T105862	0.180791	0.020454
RB21	KJ744643.1 Aname sp. MYG339 voucher T105906	0.180791	0.020454
RB21	KJ744720.1 Aname sp. MYG001 T110201	0.180791	0.020454
RB21	KJ744722.1 Aname sp. MYG001 T110203	0.180791	0.020454
RB21	KJ744724.1 Aname sp. MYG001 T110206	0.180791	0.020454
RB21	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB21	KJ745168.1 Aname mellosa T126296	0.180791	0.020454
RB21	KJ745256.1 Aname sp. MYG177 voucher T77080	0.180791	0.020454
RB13	KJ744394.1 Aname mellosa T101158	0.180791	0.020454
RB13	KJ744409.1 Aname sp. MYG001 T102040	0.180791	0.020454
RB13	KJ744412.1 Aname sp. MYG001 102044	0.180791	0.020454
RB13	KJ744474.1:2-658 Aname mellosa voucher T102834	0.180791	0.020454
RB13	KJ744491.1 Aname mellosa T103177	0.180791	0.020454
RB13	KJ744630.1 Aname mellosa T105886	0.180791	0.020454
RB13	KJ744637.1 Aname sp. MYG339 voucher T105899	0.180791	0.020454
RB13	KJ744890.1:2-658 Aname mellosa voucher T116858	0.180791	0.020454
RB13	KJ744987.1 Aname mellosa T122215	0.180791	0.020454
RB13	KJ744990.1:240-658 Aname mellosa voucher T122219	0.180791	0.020454
RB13	KJ745004.1:2-658 Aname mellosa voucher T122242	0.180791	0.020454
RB13	KJ745241.1 Aname sp. MYG177 voucher T76819	0.180791	0.020454
RB13	KJ745243.1 Aname sp. MYG177 voucher T76821	0.180791	0.020454
RB13	KJ745246.1 Aname sp. MYG177 voucher T76824	0.180791	0.020454
RB13	KJ745247.1 Aname sp. MYG177 voucher T76825	0.180791	0.020454
RB13	KJ745248.1 Aname sp. MYG177 voucher T76826	0.180791	0.020454
RB13	KJ745365.1 Aname mellosa T92127	0.180791	0.020454
RB17	KJ744394.1 Aname mellosa T101158	0.180791	0.020454
RB17	KJ744409.1 Aname sp. MYG001 T102040	0.180791	0.020454
RB17	KJ744412.1 Aname sp. MYG001 102044	0.180791	0.020454
RB17	KJ744461.1 Aname mellosa voucher T102745	0.180791	0.020454
RB17	KJ744474.1:2-658 Aname mellosa voucher T102834	0.180791	0.020454
RB17	KJ744491.1 Aname mellosa T103177	0.180791	0.020454
RB17	KJ744630.1 Aname mellosa T105886	0.180791	0.020454
RB17	KJ744637.1 Aname sp. MYG339 voucher T105899	0.180791	0.020454
RB17	KJ744890.1:2-658 Aname mellosa voucher T116858	0.180791	0.020454
RB17	KJ744987.1 Aname mellosa T122215	0.180791	0.020454
RB17	KJ744990.1:240-658 Aname mellosa voucher T122219	0.180791	0.020454
RB17	KJ745004.1:2-658 Aname mellosa voucher T122242	0.180791	0.020454
RB17	KJ745241.1 Aname sp. MYG177 voucher T76819	0.180791	0.020454
RB17	KJ745243.1 Aname sp. MYG177 voucher T76821	0.180791	0.020454
RB17	KJ745246.1 Aname sp. MYG177 voucher T76824	0.180791	0.020454
RB17	KJ745247.1 Aname sp. MYG177 voucher T76825	0.180791	0.020454
RB17	KJ745248.1 Aname sp. MYG177 voucher T76826	0.180791	0.020454
RB17	KJ745365.1 Aname mellosa T92127	0.180791	0.020454
RB18	KJ744394.1 Aname mellosa T101158	0.180791	0.020454
RB18	KJ744409.1 Aname sp. MYG001 T102040	0.180791	0.020454
RB18	KJ744412.1 Aname sp. MYG001 102044	0.180791	0.020454
RB18	KJ744461.1 Aname mellosa voucher T102745	0.180791	0.020454
RB18	KJ744474.1:2-658 Aname mellosa voucher T102834	0.180791	0.020454
RB18	KJ744491.1 Aname mellosa T103177	0.180791	0.020454
RB18	KJ744630.1 Aname mellosa T105886	0.180791	0.020454
RB18	KJ744637.1 Aname sp. MYG339 voucher T105899	0.180791	0.020454
RB18	KJ744890.1:2-658 Aname mellosa voucher T116858	0.180791	0.020454
RB18	KJ744987.1 Aname mellosa T122215	0.180791	0.020454
RB18	KJ744990.1:240-658 Aname mellosa voucher T122219	0.180791	0.020454
RB18	KJ745004.1:2-658 Aname mellosa voucher T122242	0.180791	0.020454
RB18	KJ745241.1 Aname sp. MYG177 voucher T76819	0.180791	0.020454
RB18	KJ745243.1 Aname sp. MYG177 voucher T76821	0.180791	0.020454
RB18	KJ745246.1 Aname sp. MYG177 voucher T76824	0.180791	0.020454

Mt Gibson specimen	Reference specimen	p-distance	SE
RB18	KJ745247.1 Aname sp. MYG177 voucher T76825	0.180791	0.020454
RB18	KJ745248.1 Aname sp. MYG177 voucher T76826	0.180791	0.020454
RB18	KJ745365.1 Aname mellosa T92127	0.180791	0.020454
RB02	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.183616	0.020578
RB02	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.183616	0.020578
RB02	KJ744398.1:242-658 Aname mellosa voucher T101163	0.183616	0.020578
RB02	KJ744461.1 Aname mellosa voucher T102745	0.183616	0.020578
RB02	KJ744474.1:2-658 Aname mellosa voucher T102834	0.183616	0.020578
RB02	KJ744661.1:240-658 Aname mellosa voucher T107942	0.183616	0.020578
RB02	KJ744662.1:240-658 Aname mellosa voucher T107945	0.183616	0.020578
RB02	KJ744669.1:242-658 Aname mellosa voucher T107968	0.183616	0.020578
RB02	KJ744718.1 Aname sp. MYG00 T110197	0.183616	0.020578
RB02	KJ744791.1:239-658 Aname mellosa voucher T113654	0.183616	0.020578
RB02	KJ744987.1 Aname mellosa T122215	0.183616	0.020578
RB02	KJ745012.1 Aname mellosa T122263	0.183616	0.020578
RB02	KJ745134.1:242-658 Aname mellosa voucher T126250	0.183616	0.020578
RB02	KJ745143.1:242-658 Aname mellosa voucher T126259	0.183616	0.020578
RB02	KJ745146.1:2-658 Aname mellosa voucher T126262	0.183616	0.020578
RB02	KJ745241.1 Aname sp. MYG177 voucher T76819	0.183616	0.020578
RB02	KJ745243.1 Aname sp. MYG177 voucher T76821	0.183616	0.020578
RB02	KJ745246.1 Aname sp. MYG177 voucher T76824	0.183616	0.020578
RB02	KJ745247.1 Aname sp. MYG177 voucher T76825	0.183616	0.020578
RB02	KJ745248.1 Aname sp. MYG177 voucher T76826	0.183616	0.020578
RB02	KJ745370.1 Aname mellosa T92455	0.183616	0.020578
RB02	KJ745371.1 Aname mellosa T92456	0.183616	0.020578
RB02	KJ745396.1 Aname mellosa T95400	0.183616	0.020578
RB02	KJ745398.1 Aname mellosa T95402	0.183616	0.020578
RB03	KJ744394.1 Aname mellosa T101158	0.183616	0.020578
RB03	KJ744409.1 Aname sp. MYG001 T102040	0.183616	0.020578
RB03	KJ744412.1 Aname sp. MYG001 102044	0.183616	0.020578
RB03	KJ744461.1 Aname mellosa voucher T102745	0.183616	0.020578
RB03	KJ744474.1:2-658 Aname mellosa voucher T102834	0.183616	0.020578
RB03	KJ744491.1 Aname mellosa T103177	0.183616	0.020578
RB03	KJ744630.1 Aname mellosa T105886	0.183616	0.020578
RB03	KJ744637.1 Aname sp. MYG339 voucher T105899	0.183616	0.020578
RB03	KJ744890.1:2-658 Aname mellosa voucher T116858	0.183616	0.020578
RB03	KJ744987.1 Aname mellosa T122215	0.183616	0.020578
RB03	KJ744990.1:240-658 Aname mellosa voucher T122219	0.183616	0.020578
RB03	KJ745004.1:2-658 Aname mellosa voucher T122242	0.183616	0.020578
RB03	KJ745239.1 Aname sp. MYG177 T74755	0.183616	0.020578
RB03	KJ745241.1 Aname sp. MYG177 voucher T76819	0.183616	0.020578
RB03	KJ745243.1 Aname sp. MYG177 voucher T76821	0.183616	0.020578
RB03	KJ745246.1 Aname sp. MYG177 voucher T76824	0.183616	0.020578
RB03	KJ745247.1 Aname sp. MYG177 voucher T76825	0.183616	0.020578
RB03	KJ745248.1 Aname sp. MYG177 voucher T76826	0.183616	0.020578
RB03	KJ745365.1 Aname mellosa T92127	0.183616	0.020578
RB09	KJ744409.1 Aname sp. MYG001 T102040	0.183616	0.020578
RB09	KJ744412.1 Aname sp. MYG001 102044	0.183616	0.020578
RB09	KJ744445.1 Aname mellosa voucher T102729	0.183616	0.020578
RB09	KJ744609.1:1-658 Aname mellosa voucher T105213	0.183616	0.020578
RB09	KJ744611.1 Aname mellosa T10585	0.183616	0.020578
RB09	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB09	KJ744650.1:1-658 Aname mellosa voucher T107181	0.183616	0.020578
RB09	KJ744890.1:2-658 Aname mellosa voucher T116858	0.183616	0.020578
RB09	KJ744977.1:2-658 Aname mellosa voucher T122200	0.183616	0.020578
RB09	KJ745051.1 Aname mellosa T122823	0.183616	0.020578
RB09	KJ745093.1 Aname mellosa T122870	0.183616	0.020578
RB09	KJ745153.1:242-658 Aname mellosa voucher T126271	0.183616	0.020578
RB09	KJ745155.1:2-658 Aname mellosa voucher T126273	0.183616	0.020578
RB09	KJ745159.1:2-658 Aname mellosa voucher T126279	0.183616	0.020578
RB09	KJ745160.1:242-658 Aname mellosa voucher T126280	0.183616	0.020578
RB09	KJ745184.1:2-658 Aname mellosa voucher T127219	0.183616	0.020578
RB09	KJ745242.1 Aname sp. MYG177 T76820	0.183616	0.020578
RB19	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.183616	0.020578
RB19	KJ744390.1:2-658 Aname mellosa voucher T101154	0.183616	0.020578
RB19	KJ744392.1:2-658 Aname mellosa voucher T101156	0.183616	0.020578
RB19	KJ744445.1 Aname mellosa voucher T102729	0.183616	0.020578
RB19	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB19	KJ744552.1:2-658 Aname mellosa voucher T103255	0.183616	0.020578
RB19	KJ744562.1:2-658 Aname mellosa voucher T103270	0.183616	0.020578
RB19	KJ744609.1:1-658 Aname mellosa voucher T105213	0.183616	0.020578
RB19	KJ744733.1 Aname sp. MYG177 T112359	0.183616	0.020578
RB19	KJ745168.1 Aname mellosa T126296	0.183616	0.020578
RB19	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.183616	0.020578
RB19	KJ745176.1:2-658 Aname mellosa voucher T127205	0.183616	0.020578
RB19	KJ745191.1:2-658 Aname mellosa voucher T127228	0.183616	0.020578
RB19	KJ745239.1 Aname sp. MYG177 T74755	0.183616	0.020578
RB21	KJ744390.1:2-658 Aname mellosa voucher T101154	0.183616	0.020578
RB21	KJ744392.1:2-658 Aname mellosa voucher T101156	0.183616	0.020578
RB21	KJ744462.1 Aname mellosa voucher T102746	0.183616	0.020578
RB21	KJ744552.1:2-658 Aname mellosa voucher T103255	0.183616	0.020578
RB21	KJ744562.1:2-658 Aname mellosa voucher T103270	0.183616	0.020578
RB21	KJ744637.1 Aname sp. MYG339 voucher T105899	0.183616	0.020578
RB21	KJ744733.1 Aname sp. MYG177 T112359	0.183616	0.020578
RB21	KJ745176.1:2-658 Aname mellosa voucher T127205	0.183616	0.020578
RB21	KJ745191.1:2-658 Aname mellosa voucher T127228	0.183616	0.020578

Mt Gibson specimen	Reference specimen	p-distance	SE
RB21	KJ745239.1 Aname sp. MYG177 T74755	0.183616	0.020578
RB13	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.183616	0.020578
RB13	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB13	KJ744461.1 Aname mellosa voucher T102745	0.183616	0.020578
RB13	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB13	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB13	KJ744720.1 Aname sp. MYG001 T110201	0.183616	0.020578
RB13	KJ744722.1 Aname sp. MYG001 T110203	0.183616	0.020578
RB13	KJ744724.1 Aname sp. MYG001 T110206	0.183616	0.020578
RB13	KJ744761.1:2-658 Aname mellosa voucher T113608	0.183616	0.020578
RB13	KJ745168.1 Aname mellosa T126296	0.183616	0.020578
RB13	KJ745256.1 Aname sp. MYG177 voucher T77080	0.183616	0.020578
RB17	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.183616	0.020578
RB17	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB17	KJ744445.1 Aname mellosa voucher T102729	0.183616	0.020578
RB17	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB17	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB17	KJ744720.1 Aname sp. MYG001 T110201	0.183616	0.020578
RB17	KJ744722.1 Aname sp. MYG001 T110203	0.183616	0.020578
RB17	KJ744724.1 Aname sp. MYG001 T110206	0.183616	0.020578
RB17	KJ744761.1:2-658 Aname mellosa voucher T113608	0.183616	0.020578
RB17	KJ745168.1 Aname mellosa T126296	0.183616	0.020578
RB17	KJ745256.1 Aname sp. MYG177 voucher T77080	0.183616	0.020578
RB18	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.183616	0.020578
RB18	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB18	KJ744445.1 Aname mellosa voucher T102729	0.183616	0.020578
RB18	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB18	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB18	KJ744720.1 Aname sp. MYG001 T110201	0.183616	0.020578
RB18	KJ744722.1 Aname sp. MYG001 T110203	0.183616	0.020578
RB18	KJ744724.1 Aname sp. MYG001 T110206	0.183616	0.020578
RB18	KJ744761.1:2-658 Aname mellosa voucher T113608	0.183616	0.020578
RB18	KJ745168.1 Aname mellosa T126296	0.183616	0.020578
RB18	KJ745256.1 Aname sp. MYG177 voucher T77080	0.183616	0.020578
RB02	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.186441	0.020700
RB02	KJ744409.1 Aname sp. MYG001 T102040	0.186441	0.020700
RB02	KJ744412.1 Aname sp. MYG001 102044	0.186441	0.020700
RB02	KJ744445.1 Aname mellosa voucher T102729	0.186441	0.020700
RB02	KJ744473.1:2-658 Aname mellosa voucher T102833	0.186441	0.020700
RB02	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB02	KJ744611.1 Aname mellosa T10585	0.186441	0.020700
RB02	KJ744650.1:1-658 Aname mellosa voucher T107181	0.186441	0.020700
RB02	KJ744890.1:2-658 Aname mellosa voucher T116858	0.186441	0.020700
RB02	KJ744977.1:2-658 Aname mellosa voucher T122200	0.186441	0.020700
RB02	KJ745051.1 Aname mellosa T122823	0.186441	0.020700
RB02	KJ745093.1 Aname mellosa T122870	0.186441	0.020700
RB02	KJ745153.1:242-658 Aname mellosa voucher T126271	0.186441	0.020700
RB02	KJ745155.1:2-658 Aname mellosa voucher T126273	0.186441	0.020700
RB02	KJ745159.1:2-658 Aname mellosa voucher T126279	0.186441	0.020700
RB02	KJ745160.1:242-658 Aname mellosa voucher T126280	0.186441	0.020700
RB02	KJ745184.1:2-658 Aname mellosa voucher T127219	0.186441	0.020700
RB02	KJ745256.1 Aname sp. MYG177 voucher T77080	0.186441	0.020700
RB03	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.186441	0.020700
RB03	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.186441	0.020700
RB03	KJ744445.1 Aname mellosa voucher T102729	0.186441	0.020700
RB03	KJ744473.1:2-658 Aname mellosa voucher T102833	0.186441	0.020700
RB03	KJ744635.1 Aname sp. MYG339 voucher T105893	0.186441	0.020700
RB03	KJ744720.1 Aname sp. MYG001 T110201	0.186441	0.020700
RB03	KJ744722.1 Aname sp. MYG001 T110203	0.186441	0.020700
RB03	KJ744724.1 Aname sp. MYG001 T110206	0.186441	0.020700
RB03	KJ744761.1:2-658 Aname mellosa voucher T113608	0.186441	0.020700
RB03	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB03	KJ745168.1 Aname mellosa T126296	0.186441	0.020700
RB03	KJ745256.1 Aname sp. MYG177 voucher T77080	0.186441	0.020700
RB03	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB09	KJ744394.1 Aname mellosa T101158	0.186441	0.020700
RB09	KJ744462.1 Aname mellosa voucher T102746	0.186441	0.020700
RB09	KJ744474.1:2-658 Aname mellosa voucher T102834	0.186441	0.020700
RB09	KJ744491.1 Aname mellosa T103177	0.186441	0.020700
RB09	KJ744610.1 Aname sp. MYG371 T105216	0.186441	0.020700
RB09	KJ744630.1 Aname mellosa T105886	0.186441	0.020700
RB09	KJ744720.1 Aname sp. MYG001 T110201	0.186441	0.020700
RB09	KJ744722.1 Aname sp. MYG001 T110203	0.186441	0.020700
RB09	KJ744724.1 Aname sp. MYG001 T110206	0.186441	0.020700
RB09	KJ744761.1:2-658 Aname mellosa voucher T113608	0.186441	0.020700
RB09	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB09	KJ744987.1 Aname mellosa T122215	0.186441	0.020700
RB09	KJ744990.1:240-658 Aname mellosa voucher T122219	0.186441	0.020700
RB09	KJ745004.1:2-658 Aname mellosa voucher T122242	0.186441	0.020700
RB09	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.186441	0.020700
RB09	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB09	KJ745241.1 Aname sp. MYG177 voucher T76819	0.186441	0.020700
RB09	KJ745243.1 Aname sp. MYG177 voucher T76821	0.186441	0.020700
RB09	KJ745246.1 Aname sp. MYG177 voucher T76824	0.186441	0.020700
RB09	KJ745247.1 Aname sp. MYG177 voucher T76825	0.186441	0.020700
RB09	KJ745248.1 Aname sp. MYG177 voucher T76826	0.186441	0.020700

Mt Gibson specimen	Reference specimen	p-distance	SE
RB09	KJ745365.1 Aname mellosa T92127	0.186441	0.020700
RB09	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB19	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.186441	0.020700
RB19	KJ744462.1 Aname mellosa voucher T102746	0.186441	0.020700
RB19	KJ744717.1 Aname sp. MYG001 T110195	0.186441	0.020700
RB19	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.186441	0.020700
RB19	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.186441	0.020700
RB19	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.186441	0.020700
RB19	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB19	KJ745172.1:2-658 Aname mellosa voucher T127198	0.186441	0.020700
RB19	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB19	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB19	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.186441	0.020700
RB21	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.186441	0.020700
RB21	KJ744447.1 Aname mellosa voucher T102731	0.186441	0.020700
RB21	KJ744610.1 Aname sp. MYG371 T105216	0.186441	0.020700
RB21	KJ744635.1 Aname sp. MYG339 voucher T105893	0.186441	0.020700
RB21	KJ744717.1 Aname sp. MYG001 T110195	0.186441	0.020700
RB21	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.186441	0.020700
RB21	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB21	KJ745172.1:2-658 Aname mellosa voucher T127198	0.186441	0.020700
RB21	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB21	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB13	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB13	KJ744392.1:2-658 Aname mellosa voucher T101156	0.186441	0.020700
RB13	KJ744445.1 Aname mellosa voucher T102729	0.186441	0.020700
RB13	KJ744552.1:2-658 Aname mellosa voucher T103255	0.186441	0.020700
RB13	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB13	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB13	KJ744733.1 Aname sp. MYG177 T112359	0.186441	0.020700
RB13	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB13	KJ745191.1:2-658 Aname mellosa voucher T127228	0.186441	0.020700
RB13	KJ745239.1 Aname sp. MYG177 T74755	0.186441	0.020700
RB13	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB17	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB17	KJ744392.1:2-658 Aname mellosa voucher T101156	0.186441	0.020700
RB17	KJ744462.1 Aname mellosa voucher T102746	0.186441	0.020700
RB17	KJ744552.1:2-658 Aname mellosa voucher T103255	0.186441	0.020700
RB17	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB17	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB17	KJ744733.1 Aname sp. MYG177 T112359	0.186441	0.020700
RB17	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB17	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.186441	0.020700
RB17	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB17	KJ745191.1:2-658 Aname mellosa voucher T127228	0.186441	0.020700
RB17	KJ745239.1 Aname sp. MYG177 T74755	0.186441	0.020700
RB17	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB18	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB18	KJ744392.1:2-658 Aname mellosa voucher T101156	0.186441	0.020700
RB18	KJ744462.1 Aname mellosa voucher T102746	0.186441	0.020700
RB18	KJ744552.1:2-658 Aname mellosa voucher T103255	0.186441	0.020700
RB18	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB18	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB18	KJ744733.1 Aname sp. MYG177 T112359	0.186441	0.020700
RB18	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB18	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.186441	0.020700
RB18	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB18	KJ745191.1:2-658 Aname mellosa voucher T127228	0.186441	0.020700
RB18	KJ745239.1 Aname sp. MYG177 T74755	0.186441	0.020700
RB18	KJ745408.1 Aname sp. MYG004 voucher T96019	0.186441	0.020700
RB02	KJ744491.1 Aname mellosa T103177	0.189266	0.020820
RB02	KJ744733.1 Aname sp. MYG177 T112359	0.189266	0.020820
RB02	KJ744761.1:2-658 Aname mellosa voucher T113608	0.189266	0.020820
RB02	KJ745004.1:2-658 Aname mellosa voucher T122242	0.189266	0.020820
RB03	KJ744390.1:2-658 Aname mellosa voucher T101154	0.189266	0.020820
RB03	KJ744392.1:2-658 Aname mellosa voucher T101156	0.189266	0.020820
RB03	KJ744552.1:2-658 Aname mellosa voucher T103255	0.189266	0.020820
RB03	KJ744562.1:2-658 Aname mellosa voucher T103270	0.189266	0.020820
RB03	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB03	KJ744733.1 Aname sp. MYG177 T112359	0.189266	0.020820
RB03	KJ745176.1:2-658 Aname mellosa voucher T127205	0.189266	0.020820
RB03	KJ745191.1:2-658 Aname mellosa voucher T127228	0.189266	0.020820
RB09	KJ744390.1:2-658 Aname mellosa voucher T101154	0.189266	0.020820
RB09	KJ744392.1:2-658 Aname mellosa voucher T101156	0.189266	0.020820
RB09	KJ744473.1:2-658 Aname mellosa voucher T102833	0.189266	0.020820
RB09	KJ744552.1:2-658 Aname mellosa voucher T103255	0.189266	0.020820
RB09	KJ744562.1:2-658 Aname mellosa voucher T103270	0.189266	0.020820
RB09	KJ745176.1:2-658 Aname mellosa voucher T127205	0.189266	0.020820
RB09	KJ745191.1:2-658 Aname mellosa voucher T127228	0.189266	0.020820
RB09	KJ745256.1 Aname sp. MYG177 voucher T77080	0.189266	0.020820
RB19	KJ744487.1 Aname sp. MYG365 voucher T102933	0.189266	0.020820
RB19	KJ745244.1 Aname sp. MYG177 T76822	0.189266	0.020820
RB19	KJ745249.1 Aname sp. MYG177 T76827	0.189266	0.020820
RB19	KJ745251.1 Aname sp. MYG177 T76829	0.189266	0.020820
RB19	KJ745257.1 Aname sp. MYG177 T77081	0.189266	0.020820
RB19	KJ745301.1 Aname sp. MYG365 T88596	0.189266	0.020820

Mt Gibson specimen	Reference specimen	p-distance	SE
RB19	KJ745302.1 Aname sp. MYG365 T88597	0.189266	0.020820
RB19	KJ745306.1 Aname sp. MYG365 T88603	0.189266	0.020820
RB21	KJ744487.1 Aname sp. MYG365 voucher T102933	0.189266	0.020820
RB21	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB21	KJ745244.1 Aname sp. MYG177 T76822	0.189266	0.020820
RB21	KJ745249.1 Aname sp. MYG177 T76827	0.189266	0.020820
RB21	KJ745251.1 Aname sp. MYG177 T76829	0.189266	0.020820
RB21	KJ745257.1 Aname sp. MYG177 T77081	0.189266	0.020820
RB21	KJ745301.1 Aname sp. MYG365 T88596	0.189266	0.020820
RB21	KJ745302.1 Aname sp. MYG365 T88597	0.189266	0.020820
RB21	KJ745306.1 Aname sp. MYG365 T88603	0.189266	0.020820
RB21	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB13	KJ745172.1:2-658 Aname mellosa voucher T127198	0.189266	0.020820
RB17	KJ745172.1:2-658 Aname mellosa voucher T127198	0.189266	0.020820
RB18	KJ745172.1:2-658 Aname mellosa voucher T127198	0.189266	0.020820
RB02	KJ744394.1 Aname mellosa T101158	0.189266	0.020820
RB02	KJ744404.1 Aname sp. MYG173 T101214	0.189266	0.020820
RB02	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB02	KJ744462.1 Aname mellosa voucher T102746	0.189266	0.020820
RB02	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB02	KJ744630.1 Aname mellosa T105886	0.189266	0.020820
RB02	KJ744720.1 Aname sp. MYG001 T110201	0.189266	0.020820
RB02	KJ744722.1 Aname sp. MYG001 T110203	0.189266	0.020820
RB02	KJ744724.1 Aname sp. MYG001 T110206	0.189266	0.020820
RB02	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB02	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB02	KJ744876.1 Aname sp. MYG004 voucher T116819	0.189266	0.020820
RB02	KJ744990.1:240-658 Aname mellosa voucher T122219	0.189266	0.020820
RB02	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.189266	0.020820
RB02	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.189266	0.020820
RB02	KJ745365.1 Aname mellosa T92127	0.189266	0.020820
RB02	KJ745408.1 Aname sp. MYG004 voucher T96019	0.189266	0.020820
RB03	KJ744462.1 Aname mellosa voucher T102746	0.189266	0.020820
RB03	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB03	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.189266	0.020820
RB03	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB09	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.189266	0.020820
RB09	KJ744447.1 Aname mellosa voucher T102731	0.189266	0.020820
RB09	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB09	KJ745168.1 Aname mellosa T126296	0.189266	0.020820
RB19	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.189266	0.020820
RB19	KJ744447.1 Aname mellosa voucher T102731	0.189266	0.020820
RB19	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB19	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.189266	0.020820
RB19	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB19	KJ745395.1 Aname mellosa voucher T95399	0.189266	0.020820
RB19	KJ745469.1 Aname sp. MYG366 T98768	0.189266	0.020820
RB21	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB21	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB21	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB21	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB21	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.189266	0.020820
RB21	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB21	KJ745469.1 Aname sp. MYG366 T98768	0.189266	0.020820
RB13	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB13	KJ744462.1 Aname mellosa voucher T102746	0.189266	0.020820
RB13	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB13	KJ744717.1 Aname sp. MYG001 T110195	0.189266	0.020820
RB13	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.189266	0.020820
RB13	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB13	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB13	KJ744876.1 Aname sp. MYG004 voucher T116819	0.189266	0.020820
RB13	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.189266	0.020820
RB13	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB17	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB17	KJ744447.1 Aname mellosa voucher T102731	0.189266	0.020820
RB17	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB17	KJ744717.1 Aname sp. MYG001 T110195	0.189266	0.020820
RB17	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.189266	0.020820
RB17	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB17	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB17	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB17	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.189266	0.020820
RB17	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB18	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB18	KJ744447.1 Aname mellosa voucher T102731	0.189266	0.020820
RB18	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB18	KJ744717.1 Aname sp. MYG001 T110195	0.189266	0.020820
RB18	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.189266	0.020820
RB18	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB18	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB18	KJ744887.1 Aname sp. MYG004 voucher T116842	0.189266	0.020820
RB18	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.189266	0.020820
RB18	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB02	KJ744390.1:2-658 Aname mellosa voucher T101154	0.192090	0.020938
RB02	KJ744392.1:2-658 Aname mellosa voucher T101156	0.192090	0.020938

Mt Gibson specimen	Reference specimen	p-distance	SE
RB02	KJ744447.1 Aname mellosa voucher T102731	0.192090	0.020938
RB02	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB02	KJ744552.1:2-658 Aname mellosa voucher T103255	0.192090	0.020938
RB02	KJ744562.1:2-658 Aname mellosa voucher T103270	0.192090	0.020938
RB02	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB02	KJ744887.1 Aname sp. MYG004 voucher T116842	0.192090	0.020938
RB02	KJ745168.1 Aname mellosa T126296	0.192090	0.020938
RB02	KJ745176.1:2-658 Aname mellosa voucher T127205	0.192090	0.020938
RB02	KJ745191.1:2-658 Aname mellosa voucher T127228	0.192090	0.020938
RB02	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB02	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB02	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB03	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.192090	0.020938
RB03	KJ744447.1 Aname mellosa voucher T102731	0.192090	0.020938
RB03	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB03	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB03	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB03	KJ744610.1 Aname sp. MYG371 T105216	0.192090	0.020938
RB03	KJ744717.1 Aname sp. MYG001 T110195	0.192090	0.020938
RB03	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.192090	0.020938
RB03	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.192090	0.020938
RB03	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.192090	0.020938
RB03	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB03	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB03	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB03	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB03	KJ745172.1:2-658 Aname mellosa voucher T127198	0.192090	0.020938
RB03	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB03	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.192090	0.020938
RB09	KJ744404.1 Aname sp. MYG173 T101214	0.192090	0.020938
RB09	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.192090	0.020938
RB09	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB09	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB09	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB09	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.192090	0.020938
RB09	KJ744717.1 Aname sp. MYG001 T110195	0.192090	0.020938
RB09	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.192090	0.020938
RB09	KJ744733.1 Aname sp. MYG177 T112359	0.192090	0.020938
RB09	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.192090	0.020938
RB09	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.192090	0.020938
RB09	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB09	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB09	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB09	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB09	KJ745172.1:2-658 Aname mellosa voucher T127198	0.192090	0.020938
RB09	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB09	KJ745239.1 Aname sp. MYG177 T74755	0.192090	0.020938
RB09	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.192090	0.020938
RB19	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB19	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB19	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB19	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB19	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB19	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB19	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB19	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB19	KJ745245.1 Aname sp. MYG177 T76823	0.192090	0.020938
RB19	KJ745316.1:1-658 Aname mellosa voucher T88671	0.192090	0.020938
RB21	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.192090	0.020938
RB21	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB21	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB21	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB21	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB21	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB21	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB21	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB21	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB21	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB21	KJ745245.1 Aname sp. MYG177 T76823	0.192090	0.020938
RB21	KJ745314.1:2-658 Aname mellosa voucher T88668	0.192090	0.020938
RB21	KJ745395.1 Aname mellosa voucher T95399	0.192090	0.020938
RB13	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.192090	0.020938
RB13	KJ744447.1 Aname mellosa voucher T102731	0.192090	0.020938
RB13	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB13	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB13	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB13	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB13	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB13	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB13	KJ744887.1 Aname sp. MYG004 voucher T116842	0.192090	0.020938
RB13	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB13	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB13	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB13	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.192090	0.020938
RB13	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB13	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938

Mt Gibson specimen	Reference specimen	p-distance	SE
RB13	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB13	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB13	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB13	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB13	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB13	KJ745316.1:1-658 Aname mellosa voucher T88671	0.192090	0.020938
RB13	KJ745395.1 Aname mellosa voucher T95399	0.192090	0.020938
RB13	KJ745469.1 Aname sp. MYG366 T98768	0.192090	0.020938
RB17	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.192090	0.020938
RB17	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB17	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB17	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB17	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB17	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB17	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB17	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB17	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB17	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB17	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB17	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB17	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938
RB17	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB17	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB17	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB17	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB17	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB17	KJ745316.1:1-658 Aname mellosa voucher T88671	0.192090	0.020938
RB17	KJ745395.1 Aname mellosa voucher T95399	0.192090	0.020938
RB17	KJ745469.1 Aname sp. MYG366 T98768	0.192090	0.020938
RB18	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.192090	0.020938
RB18	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB18	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB18	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB18	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB18	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB18	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB18	KJ744892.1 Aname sp. MYG004 voucher T116863	0.192090	0.020938
RB18	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB18	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB18	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB18	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB18	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938
RB18	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB18	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB18	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB18	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB18	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB18	KJ745316.1:1-658 Aname mellosa voucher T88671	0.192090	0.020938
RB18	KJ745395.1 Aname mellosa voucher T95399	0.192090	0.020938
RB18	KJ745469.1 Aname sp. MYG366 T98768	0.192090	0.020938
RB02	KJ744443.1 Aname mellosa voucher T102535	0.194915	0.021054
RB02	KJ744717.1 Aname sp. MYG001 T110195	0.194915	0.021054
RB02	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.194915	0.021054
RB02	KJ745172.1:2-658 Aname mellosa voucher T127198	0.194915	0.021054
RB02	KJ745239.1 Aname sp. MYG177 T74755	0.194915	0.021054
RB02	KJ745244.1 Aname sp. MYG177 T76822	0.194915	0.021054
RB02	KJ745249.1 Aname sp. MYG177 T76827	0.194915	0.021054
RB02	KJ745251.1 Aname sp. MYG177 T76829	0.194915	0.021054
RB02	KJ745257.1 Aname sp. MYG177 T77081	0.194915	0.021054
RB02	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.194915	0.021054
RB03	KJ744487.1 Aname sp. MYG365 voucher T102933	0.194915	0.021054
RB03	KJ745244.1 Aname sp. MYG177 T76822	0.194915	0.021054
RB03	KJ745249.1 Aname sp. MYG177 T76827	0.194915	0.021054
RB03	KJ745251.1 Aname sp. MYG177 T76829	0.194915	0.021054
RB03	KJ745257.1 Aname sp. MYG177 T77081	0.194915	0.021054
RB03	KJ745301.1 Aname sp. MYG365 T88596	0.194915	0.021054
RB03	KJ745302.1 Aname sp. MYG365 T88597	0.194915	0.021054
RB03	KJ745306.1 Aname sp. MYG365 T88603	0.194915	0.021054
RB03	KJ745316.1:1-658 Aname mellosa voucher T88671	0.194915	0.021054
RB09	KJ744487.1 Aname sp. MYG365 voucher T102933	0.194915	0.021054
RB09	KJ745301.1 Aname sp. MYG365 T88596	0.194915	0.021054
RB09	KJ745302.1 Aname sp. MYG365 T88597	0.194915	0.021054
RB09	KJ745306.1 Aname sp. MYG365 T88603	0.194915	0.021054
RB09	KJ745316.1:1-658 Aname mellosa voucher T88671	0.194915	0.021054
RB19	KJ745305.1 Aname sp. MYG365 voucher T88602	0.194915	0.021054
RB19	KJ745314.1:2-658 Aname mellosa voucher T88668	0.194915	0.021054
RB21	KJ745305.1 Aname sp. MYG365 voucher T88602	0.194915	0.021054
RB13	KJ745245.1 Aname sp. MYG177 T76823	0.194915	0.021054
RB13	KJ745314.1:2-658 Aname mellosa voucher T88668	0.194915	0.021054
RB17	KJ745245.1 Aname sp. MYG177 T76823	0.194915	0.021054
RB17	KJ745314.1:2-658 Aname mellosa voucher T88668	0.194915	0.021054
RB18	KJ745245.1 Aname sp. MYG177 T76823	0.194915	0.021054
RB18	KJ745314.1:2-658 Aname mellosa voucher T88668	0.194915	0.021054
RB02	KJ744490.1 Aname sp. MYG004 voucher T103174	0.194915	0.021054
RB02	KJ744495.1 Aname sp. MYG004 voucher T103183	0.194915	0.021054
RB02	KJ744524.1 Aname sp. MYG004 voucher T103222	0.194915	0.021054

Mt Gibson specimen	Reference specimen	p-distance	SE
RB02	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.194915	0.021054
RB02	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.194915	0.021054
RB02	KJ744860.1 Aname sp. MYG004 voucher T116780	0.194915	0.021054
RB02	KJ744892.1 Aname sp. MYG004 voucher T116863	0.194915	0.021054
RB02	KJ745058.1 Aname sp. MYG004 voucher T122832	0.194915	0.021054
RB02	KJ745097.1 Aname sp. MYG004 voucher T122875	0.194915	0.021054
RB02	KJ745174.1 Aname sp. MYG004 voucher T127202	0.194915	0.021054
RB03	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.194915	0.021054
RB03	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB03	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB03	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.194915	0.021054
RB03	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB03	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB03	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB03	KJ745395.1 Aname mellosa voucher T95399	0.194915	0.021054
RB03	KJ745469.1 Aname sp. MYG366 T98768	0.194915	0.021054
RB09	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB09	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB09	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.194915	0.021054
RB09	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB09	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB09	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB09	KJ745469.1 Aname sp. MYG366 T98768	0.194915	0.021054
RB19	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB19	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB19	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB19	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.194915	0.021054
RB19	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB19	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB19	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB19	KJ745467.1 Aname sp. MYG366 T98765	0.194915	0.021054
RB21	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB21	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB21	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB21	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB21	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB21	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB21	KJ745467.1 Aname sp. MYG366 T98765	0.194915	0.021054
RB13	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB13	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB13	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB13	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB13	KJ744892.1 Aname sp. MYG004 voucher T116863	0.194915	0.021054
RB13	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB13	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB17	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB17	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB17	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB17	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB17	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB18	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB18	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB18	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB18	KJ744917.1 Aname sp. MYG004 voucher T118822	0.194915	0.021054
RB18	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB02	KJ744493.1 Aname sp. MYG004 voucher T103179	0.197740	0.021169
RB02	KJ744526.1 Aname sp. MYG004 voucher T103224	0.197740	0.021169
RB02	KJ744854.1 Aname sp. MYG004 voucher T116771	0.197740	0.021169
RB02	KJ744917.1 Aname sp. MYG004 voucher T118822	0.197740	0.021169
RB02	KJ745046.1 Aname sp. MYG004 voucher T122814	0.197740	0.021169
RB02	KJ745245.1 Aname sp. MYG177 T76823	0.197740	0.021169
RB02	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB02	KJ745316.1:1-658 Aname mellosa voucher T88671	0.197740	0.021169
RB02	KJ745469.1 Aname sp. MYG366 T98768	0.197740	0.021169
RB03	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB03	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.197740	0.021169
RB03	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB03	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB03	KJ745245.1 Aname sp. MYG177 T76823	0.197740	0.021169
RB03	KJ745314.1:2-658 Aname mellosa voucher T88668	0.197740	0.021169
RB03	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB09	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.197740	0.021169
RB09	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB09	KJ744443.1 Aname mellosa voucher T102535	0.197740	0.021169
RB09	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.197740	0.021169
RB09	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB09	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB09	KJ745244.1 Aname sp. MYG177 T76822	0.197740	0.021169
RB09	KJ745249.1 Aname sp. MYG177 T76827	0.197740	0.021169
RB09	KJ745251.1 Aname sp. MYG177 T76829	0.197740	0.021169
RB09	KJ745257.1 Aname sp. MYG177 T77081	0.197740	0.021169
RB09	KJ745314.1:2-658 Aname mellosa voucher T88668	0.197740	0.021169
RB09	KJ745395.1 Aname mellosa voucher T95399	0.197740	0.021169
RB09	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB09	KJ745468.1 Aname sp. MYG366 T98766	0.197740	0.021169
RB09	KJ745474.1 Aname sp. MYG366 T98774	0.197740	0.021169

Mt Gibson specimen	Reference specimen	p-distance	SE
RB09	KJ745477.1 Aname sp. MYG366 T98869	0.197740	0.021169
RB19	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB19	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.197740	0.021169
RB19	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB19	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB19	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB19	KJ745468.1 Aname sp. MYG366 T98766	0.197740	0.021169
RB19	KJ745474.1 Aname sp. MYG366 T98774	0.197740	0.021169
RB19	KJ745477.1 Aname sp. MYG366 T98869	0.197740	0.021169
RB21	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB21	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.197740	0.021169
RB21	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB21	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB21	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB21	KJ745468.1 Aname sp. MYG366 T98766	0.197740	0.021169
RB21	KJ745474.1 Aname sp. MYG366 T98774	0.197740	0.021169
RB21	KJ745477.1 Aname sp. MYG366 T98869	0.197740	0.021169
RB13	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB13	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.197740	0.021169
RB13	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB13	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB13	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB13	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB13	KJ745467.1 Aname sp. MYG366 T98765	0.197740	0.021169
RB17	KJ744404.1 Aname sp. MYG173 T101214	0.197740	0.021169
RB17	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB17	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.197740	0.021169
RB17	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB17	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB17	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB17	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB17	KJ745467.1 Aname sp. MYG366 T98765	0.197740	0.021169
RB18	KJ744404.1 Aname sp. MYG173 T101214	0.197740	0.021169
RB18	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB18	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.197740	0.021169
RB18	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB18	KJ745156.1 Aname sp. MYG004 voucher T126274	0.197740	0.021169
RB18	KJ745305.1 Aname sp. MYG365 voucher T88602	0.197740	0.021169
RB18	KJ745399.1 Aname sp. MYG004 voucher T95403	0.197740	0.021169
RB18	KJ745467.1 Aname sp. MYG366 T98765	0.197740	0.021169
RB02	KJ744436.1 Aname sp. MYG004 voucher T102161	0.200565	0.021282
RB02	KJ745016.1 Aname sp. MYG329 voucher T122273	0.200565	0.021282
RB02	KJ745314.1:2-658 Aname mellosa voucher T88668	0.200565	0.021282
RB02	KJ745468.1 Aname sp. MYG366 T98766	0.200565	0.021282
RB02	KJ745474.1 Aname sp. MYG366 T98774	0.200565	0.021282
RB02	KJ745477.1 Aname sp. MYG366 T98869	0.200565	0.021282
RB03	KJ744404.1 Aname sp. MYG173 T101214	0.200565	0.021282
RB03	KJ745305.1 Aname sp. MYG365 voucher T88602	0.200565	0.021282
RB03	KJ745467.1 Aname sp. MYG366 T98765	0.200565	0.021282
RB09	KJ745245.1 Aname sp. MYG177 T76823	0.200565	0.021282
RB09	KJ745305.1 Aname sp. MYG365 voucher T88602	0.200565	0.021282
RB09	KJ745467.1 Aname sp. MYG366 T98765	0.200565	0.021282
RB21	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.200565	0.021282
RB13	KJ745468.1 Aname sp. MYG366 T98766	0.200565	0.021282
RB13	KJ745474.1 Aname sp. MYG366 T98774	0.200565	0.021282
RB13	KJ745477.1 Aname sp. MYG366 T98869	0.200565	0.021282
RB17	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.200565	0.021282
RB17	KJ745468.1 Aname sp. MYG366 T98766	0.200565	0.021282
RB17	KJ745474.1 Aname sp. MYG366 T98774	0.200565	0.021282
RB17	KJ745477.1 Aname sp. MYG366 T98869	0.200565	0.021282
RB18	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.200565	0.021282
RB18	KJ745468.1 Aname sp. MYG366 T98766	0.200565	0.021282
RB18	KJ745474.1 Aname sp. MYG366 T98774	0.200565	0.021282
RB18	KJ745477.1 Aname sp. MYG366 T98869	0.200565	0.021282
RB02	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.200565	0.021282
RB02	KJ744786.1 Aname sp. MYG004 voucher T113645	0.200565	0.021282
RB02	KJ745156.1 Aname sp. MYG004 voucher T126274	0.200565	0.021282
RB02	KJ745395.1 Aname mellosa voucher T95399	0.200565	0.021282
RB02	KJ745399.1 Aname sp. MYG004 voucher T95403	0.200565	0.021282
RB03	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB03	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB03	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB09	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB09	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB09	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB19	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB19	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB19	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB21	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB21	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB21	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB13	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB13	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB13	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB17	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB17	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282

Mt Gibson specimen	Reference specimen	p-distance	SE
RB17	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB18	KJ745048.1 Aname sp. MYG004 voucher T122820	0.200565	0.021282
RB18	KJ745132.1 Aname sp. MYG004 voucher T126248	0.200565	0.021282
RB18	KJ745163.1 Aname sp. MYG004 voucher T126285	0.200565	0.021282
RB02	KJ745048.1 Aname sp. MYG004 voucher T122820	0.203390	0.021394
RB02	KJ745132.1 Aname sp. MYG004 voucher T126248	0.203390	0.021394
RB02	KJ745163.1 Aname sp. MYG004 voucher T126285	0.203390	0.021394
RB02	KJ745467.1 Aname sp. MYG366 T98765	0.203390	0.021394
RB03	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.203390	0.021394
RB03	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB03	KJ745468.1 Aname sp. MYG366 T98766	0.203390	0.021394
RB03	KJ745474.1 Aname sp. MYG366 T98774	0.203390	0.021394
RB03	KJ745477.1 Aname sp. MYG366 T98869	0.203390	0.021394
RB09	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB19	KJ744443.1 Aname mellosa voucher T102535	0.203390	0.021394
RB19	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB21	KJ744385.1:1-658 Aname mellosa voucher T100078	0.203390	0.021394
RB21	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB13	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.203390	0.021394
RB13	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB17	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB18	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB03	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB03	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB03	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB09	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB09	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB09	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB19	KJ744385.1:1-658 Aname mellosa voucher T100078	0.206215	0.021504
RB19	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB19	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB19	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB21	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB21	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB21	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB13	KJ744385.1:1-658 Aname mellosa voucher T100078	0.206215	0.021504
RB13	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB13	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB13	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB13	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB17	KJ744385.1:1-658 Aname mellosa voucher T100078	0.206215	0.021504
RB17	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB17	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB17	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB17	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB18	KJ744385.1:1-658 Aname mellosa voucher T100078	0.206215	0.021504
RB18	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB18	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB18	KJ745145.1 Aname sp. MYG004 voucher T126261	0.206215	0.021504
RB18	KJ745409.1 Aname sp. MYG004 voucher T96022	0.206215	0.021504
RB02	KJ744670.1 Aname sp. MYG004 voucher T107973	0.209040	0.021612
RB03	KJ744385.1:1-658 Aname mellosa voucher T100078	0.209040	0.021612
RB09	KJ744385.1:1-658 Aname mellosa voucher T100078	0.209040	0.021612
RB02	KJ745145.1 Aname sp. MYG004 voucher T126261	0.209040	0.021612
RB02	KJ745409.1 Aname sp. MYG004 voucher T96022	0.209040	0.021612
RB03	KJ744443.1 Aname mellosa voucher T102535	0.209040	0.021612
RB03	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB03	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB09	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB09	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB19	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB19	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB21	KJ744443.1 Aname mellosa voucher T102535	0.209040	0.021612
RB21	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB21	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB13	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB13	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB17	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB17	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB18	KJ744745.1 Aname sp. MYG004 voucher T113584	0.209040	0.021612
RB18	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB02	KJ744385.1:1-658 Aname mellosa voucher T100078	0.211864	0.021718
RB02	KJ744745.1 Aname sp. MYG004 voucher T113584	0.211864	0.021718
RB02	KJ744960.1 Aname sp. MYG004 voucher T119998	0.211864	0.021718
RB19	EU404114 Centruroides vittatus	0.240113	0.022703
RB09	EU404114 Centruroides vittatus	0.242938	0.022794
RB21	EU404114 Centruroides vittatus	0.242938	0.022794
RB13	EU404114 Centruroides vittatus	0.242938	0.022794
RB17	EU404114 Centruroides vittatus	0.242938	0.022794
RB18	EU404114 Centruroides vittatus	0.242938	0.022794
RB02	EU404114 Centruroides vittatus	0.245763	0.022883
RB03	EU404114 Centruroides vittatus	0.245763	0.022883
RB19	JF700146 Mesobuthus martensii	0.251412	0.023058
RB09	JF700146 Mesobuthus martensii	0.254237	0.023143
RB21	JF700146 Mesobuthus martensii	0.254237	0.023143
RB13	JF700146 Mesobuthus martensii	0.254237	0.023143

Mt Gibson specimen	Reference specimen	p-distance	SE
RB17	JF700146 Mesobuthus martensii	0.254237	0.023143
RB18	JF700146 Mesobuthus martensii	0.254237	0.023143
RB02	JF700146 Mesobuthus martensii	0.257062	0.023227
RB03	JF700146 Mesobuthus martensii	0.257062	0.023227

Appendix 3

Molecular p-distance of the Mt Gibson **H-N155***
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB31	KJ745375.1 Aname sp. MYG034 T93314	0.149718	0.018963
RB31	KJ744650.1:1-658 Aname mellosa voucher T107181	0.152542	0.019110
RB31	KJ744432.1 Aname sp. MYG368 voucher T102108	0.152542	0.019110
RB31	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.155367	0.019254
RB31	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB31	KJ744982.1 Aname mellosa T122207	0.158192	0.019395
RB31	KJ745155.1:2-658 Aname mellosa voucher T126273	0.158192	0.019395
RB31	KJ745168.1 Aname mellosa T126296	0.158192	0.019395
RB31	KJ745231.1 Aname sp. MYG351 T74238	0.158192	0.019395
RB31	KJ745232.1 Aname sp. MYG351 T74241	0.158192	0.019395
RB31	KJ745233.1 Aname sp. MYG351 T74247	0.158192	0.019395
RB31	KJ745287.1 Aname sp. MYG351 T82303	0.158192	0.019395
RB31	KJ745293.1 Aname sp. MYG351 T82309	0.158192	0.019395
RB31	KJ744977.1:2-658 Aname mellosa voucher T122200	0.161017	0.019535
RB31	KJ745170.1 Aname mellosa T126301	0.161017	0.019535
RB31	KJ745488.1 Aname ellenae T98894	0.161017	0.019535
RB31	KJ745489.1 Aname ellenae T98895	0.161017	0.019535
RB31	KJ744394.1 Aname mellosa T101158	0.163842	0.019672
RB31	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB31	KJ744623.1:239-658 Aname mellosa voucher T105871	0.163842	0.019672
RB31	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB31	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB31	KJ744651.1 Aname mellosa T107182	0.163842	0.019672
RB31	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB31	KJ744785.1:239-658 Aname mellosa voucher T113642	0.163842	0.019672
RB31	KJ744803.1:2-658 Aname mellosa voucher T113666	0.163842	0.019672
RB31	KJ744914.1 Aname sp. MYG331 T118818	0.163842	0.019672
RB31	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB31	KJ745159.1:2-658 Aname mellosa voucher T126279	0.163842	0.019672
RB31	KJ745429.1 Aname sp. MYG030 voucher T96495	0.163842	0.019672
RB31	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB31	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.166667	0.019808
RB31	KJ745398.1 Aname mellosa T95402	0.166667	0.019808
RB31	KJ744611.1 Aname mellosa T10585	0.166667	0.019808
RB31	KJ744662.1:240-658 Aname mellosa voucher T107945	0.166667	0.019808
RB31	KJ744669.1:242-658 Aname mellosa voucher T107968	0.166667	0.019808
RB31	KJ744775.1:239-658 Aname mellosa voucher T113629	0.166667	0.019808
RB31	KJ744788.1:239-658 Aname mellosa voucher T113648	0.166667	0.019808
RB31	KJ744791.1:239-658 Aname mellosa voucher T113654	0.166667	0.019808
RB31	KJ744911.1 Aname sp. MYG331 T118812	0.166667	0.019808
RB31	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB31	KJ744987.1 Aname mellosa T122215	0.166667	0.019808
RB31	KJ744990.1:240-658 Aname mellosa voucher T122219	0.166667	0.019808
RB31	KJ745051.1 Aname mellosa T122823	0.166667	0.019808
RB31	KJ745093.1 Aname mellosa T122870	0.166667	0.019808
RB31	KJ745134.1:242-658 Aname mellosa voucher T126250	0.166667	0.019808
RB31	KJ745143.1:242-658 Aname mellosa voucher T126259	0.166667	0.019808
RB31	KJ745288.1 Aname sp. MYG351 82304	0.166667	0.019808
RB31	KJ745365.1 Aname mellosa T92127	0.166667	0.019808
RB31	KJ744649.1 Aname sp. MYG373 T107089	0.169492	0.019941
RB31	KJ744781.1 Aname mellosa T113636	0.169492	0.019941
RB31	KJ745004.1:2-658 Aname mellosa voucher T122242	0.169492	0.019941
RB31	KJ745153.1:242-658 Aname mellosa voucher T126271	0.169492	0.019941
RB31	KJ745160.1:242-658 Aname mellosa voucher T126280	0.169492	0.019941
RB31	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB31	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB31	KJ745371.1 Aname mellosa T92456	0.169492	0.019941
RB31	KJ745396.1 Aname mellosa T95400	0.169492	0.019941
RB31	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.172316	0.020072
RB31	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.172316	0.020072
RB31	KJ744909.1 Aname sp. MYG331 T118805	0.172316	0.020072
RB31	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.172316	0.020072
RB31	KJ744436.1 Aname sp. MYG004 voucher T102161	0.172316	0.020072
RB31	KJ744461.1 Aname mellosa voucher T102745	0.172316	0.020072
RB31	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.172316	0.020072
RB31	KJ745012.1 Aname mellosa T122263	0.172316	0.020072
RB31	KJ745395.1 Aname mellosa voucher T95399	0.172316	0.020072
RB31	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.175141	0.020201
RB31	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB31	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.175141	0.020201
RB31	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.175141	0.020201
RB31	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.175141	0.020201
RB31	KJ744447.1 Aname mellosa voucher T102731	0.175141	0.020201
RB31	KJ744462.1 Aname mellosa voucher T102746	0.175141	0.020201
RB31	KJ744901.1 Aname sp. MYG331 T118789	0.175141	0.020201
RB31	KJ744902.1 Aname sp. MYG331 T118791	0.175141	0.020201
RB31	KJ745242.1 Aname sp. MYG177 T76820	0.175141	0.020201
RB31	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.177966	0.020329
RB31	KJ744390.1:2-658 Aname mellosa voucher T101154	0.177966	0.020329
RB31	KJ744910.1 Aname sp. MYG331 T118811	0.177966	0.020329
RB31	KJ745172.1:2-658 Aname mellosa voucher T127198	0.177966	0.020329
RB31	KJ745241.1 Aname sp. MYG177 voucher T76819	0.177966	0.020329
RB31	KJ745243.1 Aname sp. MYG177 voucher T76821	0.177966	0.020329
RB31	KJ745246.1 Aname sp. MYG177 voucher T76824	0.177966	0.020329
RB31	KJ745247.1 Aname sp. MYG177 voucher T76825	0.177966	0.020329
RB31	KJ745248.1 Aname sp. MYG177 voucher T76826	0.177966	0.020329

Mt Gibson specimen	Reference specimen	p-distance	SE
RB31	KJ745314.1:2-658 Aname mellosa voucher T88668	0.177966	0.020329
RB31	KJ744445.1 Aname mellosa voucher T102729	0.177966	0.020329
RB31	KJ744571.1 Aname mellosa T103906	0.177966	0.020329
RB31	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329
RB31	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.180791	0.020454
RB31	KJ744392.1:2-658 Aname mellosa voucher T101156	0.180791	0.020454
RB31	KJ744398.1:242-658 Aname mellosa voucher T101163	0.180791	0.020454
RB31	KJ744443.1 Aname mellosa voucher T102535	0.180791	0.020454
RB31	KJ744552.1:2-658 Aname mellosa voucher T103255	0.180791	0.020454
RB31	KJ744577.1 Aname mellosa T103913	0.180791	0.020454
RB31	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB31	KJ745184.1:2-658 Aname mellosa voucher T127219	0.180791	0.020454
RB31	KJ745191.1:2-658 Aname mellosa voucher T127228	0.180791	0.020454
RB31	KJ745299.1 Aname sp. MYG001 T86678	0.180791	0.020454
RB31	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.183616	0.020578
RB31	KJ744409.1 Aname sp. MYG001 T102040	0.183616	0.020578
RB31	KJ744412.1 Aname sp. MYG001 102044	0.183616	0.020578
RB31	KJ744562.1:2-658 Aname mellosa voucher T103270	0.183616	0.020578
RB31	KJ744610.1 Aname sp. MYG371 T105216	0.183616	0.020578
RB31	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.183616	0.020578
RB31	KJ744733.1 Aname sp. MYG177 T112359	0.183616	0.020578
RB31	KJ744917.1 Aname sp. MYG004 voucher T118822	0.183616	0.020578
RB31	KJ745176.1:2-658 Aname mellosa voucher T127205	0.183616	0.020578
RB31	KJ745198.1:1-658 Aname mainae voucher T42354	0.183616	0.020578
RB31	KJ745245.1 Aname sp. MYG177 T76823	0.183616	0.020578
RB31	KJ745249.1 Aname sp. MYG177 T76827	0.183616	0.020578
RB31	KJ745256.1 Aname sp. MYG177 voucher T77080	0.183616	0.020578
RB31	KJ744473.1:2-658 Aname mellosa voucher T102833	0.186441	0.020700
RB31	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB31	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.186441	0.020700
RB31	KJ744717.1 Aname sp. MYG001 T110195	0.186441	0.020700
RB31	KJ744718.1 Aname sp. MYG00 T110197	0.186441	0.020700
RB31	KJ744720.1 Aname sp. MYG001 T110201	0.186441	0.020700
RB31	KJ744722.1 Aname sp. MYG001 T110203	0.186441	0.020700
RB31	KJ744724.1 Aname sp. MYG001 T110206	0.186441	0.020700
RB31	KJ744745.1 Aname sp. MYG004 voucher T113584	0.186441	0.020700
RB31	KJ745240.1 Aname sp. MYG177 voucher T74758	0.186441	0.020700
RB31	KJ745244.1 Aname sp. MYG177 T76822	0.186441	0.020700
RB31	KJ745251.1 Aname sp. MYG177 T76829	0.186441	0.020700
RB31	KJ745257.1 Aname sp. MYG177 T77081	0.186441	0.020700
RB31	KJ745316.1:1-658 Aname mellosa voucher T88671	0.186441	0.020700
RB31	KJ745467.1 Aname sp. MYG366 T98765	0.186441	0.020700
RB31	KJ745468.1 Aname sp. MYG366 T98766	0.186441	0.020700
RB31	KJ745469.1 Aname sp. MYG366 T98768	0.186441	0.020700
RB31	KJ745474.1 Aname sp. MYG366 T98774	0.186441	0.020700
RB31	KJ745477.1 Aname sp. MYG366 T98869	0.186441	0.020700
RB31	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.189266	0.020820
RB31	KJ744474.1:2-658 Aname mellosa voucher T102834	0.189266	0.020820
RB31	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.189266	0.020820
RB31	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.189266	0.020820
RB31	KJ745145.1 Aname sp. MYG004 voucher T126261	0.189266	0.020820
RB31	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB31	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.192090	0.020938
RB31	KJ744385.1:1-658 Aname mellosa voucher T100078	0.192090	0.020938
RB31	KJ744609.1:1-658 Aname mellosa voucher T105213	0.192090	0.020938
RB31	KJ744612.1 Aname sp. MYG339 voucher T105852	0.192090	0.020938
RB31	KJ744615.1 Aname sp. MYG339 voucher T105858	0.192090	0.020938
RB31	KJ744616.1 Aname sp. MYG339 voucher T105859	0.192090	0.020938
RB31	KJ744618.1 Aname sp. MYG339 voucher T105862	0.192090	0.020938
RB31	KJ744643.1 Aname sp. MYG339 voucher T105906	0.192090	0.020938
RB31	KJ744854.1 Aname sp. MYG004 voucher T116771	0.192090	0.020938
RB31	KJ744960.1 Aname sp. MYG004 voucher T119998	0.192090	0.020938
RB31	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.192090	0.020938
RB31	KJ745058.1 Aname sp. MYG004 voucher T122832	0.192090	0.020938
RB31	KJ745156.1 Aname sp. MYG004 voucher T126274	0.192090	0.020938
RB31	KJ745239.1 Aname sp. MYG177 T74755	0.192090	0.020938
RB31	KJ745296.1 Aname sp. MYG364 T85262	0.192090	0.020938
RB31	KJ745408.1 Aname sp. MYG004 voucher T96019	0.192090	0.020938
RB31	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.192090	0.020938
RB31	KJ744499.1 Aname sp. MYG339 voucher T103191	0.194915	0.021054
RB31	KJ744625.1 Aname sp. MYG339 voucher T105873	0.194915	0.021054
RB31	KJ744637.1 Aname sp. MYG339 voucher T105899	0.194915	0.021054
RB31	KJ744638.1 Aname sp. MYG339 voucher T105900	0.194915	0.021054
RB31	KJ744670.1 Aname sp. MYG004 voucher T107973	0.194915	0.021054
RB31	KJ744860.1 Aname sp. MYG004 voucher T116780	0.194915	0.021054
RB31	KJ745046.1 Aname sp. MYG004 voucher T122814	0.194915	0.021054
RB31	KJ745132.1 Aname sp. MYG004 voucher T126248	0.194915	0.021054
RB31	KJ745163.1 Aname sp. MYG004 voucher T126285	0.194915	0.021054
RB31	KJ744490.1 Aname sp. MYG004 voucher T103174	0.197740	0.021169
RB31	KJ744495.1 Aname sp. MYG004 voucher T103183	0.197740	0.021169
RB31	KJ744524.1 Aname sp. MYG004 voucher T103222	0.197740	0.021169
RB31	KJ744526.1 Aname sp. MYG004 voucher T103224	0.197740	0.021169
RB31	KJ744635.1 Aname sp. MYG339 voucher T105893	0.197740	0.021169
RB31	KJ744786.1 Aname sp. MYG004 voucher T113645	0.197740	0.021169
RB31	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB31	KJ744887.1 Aname sp. MYG004 voucher T116842	0.197740	0.021169

Mt Gibson specimen	Reference specimen	p-distance	SE
RB31	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169
RB31	KJ745048.1 Aname sp. MYG004 voucher T122820	0.197740	0.021169
RB31	KJ745097.1 Aname sp. MYG004 voucher T122875	0.197740	0.021169
RB31	KJ745174.1 Aname sp. MYG004 voucher T127202	0.197740	0.021169
RB31	KJ744404.1 Aname sp. MYG173 T101214	0.200565	0.021282
RB31	KJ744493.1 Aname sp. MYG004 voucher T103179	0.200565	0.021282
RB31	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.200565	0.021282
RB31	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.203390	0.021394
RB31	KJ745409.1 Aname sp. MYG004 voucher T96022	0.203390	0.021394
RB31	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.211864	0.021718
RB31	KJ745016.1 Aname sp. MYG329 voucher T122273	0.214689	0.021823
RB31	KJ744487.1 Aname sp. MYG365 voucher T102933	0.217514	0.021927
RB31	KJ745301.1 Aname sp. MYG365 T88596	0.217514	0.021927
RB31	KJ745302.1 Aname sp. MYG365 T88597	0.217514	0.021927
RB31	KJ745306.1 Aname sp. MYG365 T88603	0.217514	0.021927
RB31	KJ745305.1 Aname sp. MYG365 voucher T88602	0.220339	0.022029
RB31	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.228814	0.022326
RB31	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.228814	0.022326
RB31	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.228814	0.022326
RB31	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.231638	0.022423
RB31	EU404114 Centruroides vittatus	0.257062	0.023227
RB31	JF700146 Mesobuthus martensii	0.279661	0.023855

Appendix 4

Molecular p-distance of the Mt Gibson **H-N156***
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB27	KJ744982.1 Aname mellosa T122207	0.132768	0.018035
RB22	KJ745316.1:1-658 Aname mellosa voucher T88671	0.135593	0.018196
RB06	KJ745316.1:1-658 Aname mellosa voucher T88671	0.135593	0.018196
RB25	KJ745316.1:1-658 Aname mellosa voucher T88671	0.135593	0.018196
RB27	KJ744977.1:2-658 Aname mellosa voucher T122200	0.135593	0.018196
RB27	KJ744785.1:239-658 Aname mellosa voucher T113642	0.138418	0.018355
RB27	KJ744803.1:2-658 Aname mellosa voucher T113666	0.138418	0.018355
RB27	KJ745155.1:2-658 Aname mellosa voucher T126273	0.138418	0.018355
RB28	KJ744982.1 Aname mellosa T122207	0.138418	0.018355
RB08	KJ744982.1 Aname mellosa T122207	0.138418	0.018355
RB27	KJ744398.1:242-658 Aname mellosa voucher T101163	0.141243	0.018510
RB27	KJ744623.1:239-658 Aname mellosa voucher T105871	0.141243	0.018510
RB27	KJ744661.1:240-658 Aname mellosa voucher T107942	0.141243	0.018510
RB27	KJ744669.1:242-658 Aname mellosa voucher T107968	0.141243	0.018510
RB27	KJ744926.1:2-658 Aname mellosa voucher T119710	0.141243	0.018510
RB27	KJ745012.1 Aname mellosa T122263	0.141243	0.018510
RB27	KJ745051.1 Aname mellosa T122823	0.141243	0.018510
RB27	KJ745093.1 Aname mellosa T122870	0.141243	0.018510
RB27	KJ745134.1:242-658 Aname mellosa voucher T126250	0.141243	0.018510
RB27	KJ745143.1:242-658 Aname mellosa voucher T126259	0.141243	0.018510
RB28	KJ744977.1:2-658 Aname mellosa voucher T122200	0.141243	0.018510
RB29	KJ744977.1:2-658 Aname mellosa voucher T122200	0.141243	0.018510
RB08	KJ744623.1:239-658 Aname mellosa voucher T105871	0.141243	0.018510
RB08	KJ744781.1 Aname mellosa T113636	0.141243	0.018510
RB08	KJ744977.1:2-658 Aname mellosa voucher T122200	0.141243	0.018510
RB08	KJ745375.1 Aname sp. MYG034 T93314	0.141243	0.018510
RB11	KJ744977.1:2-658 Aname mellosa voucher T122200	0.141243	0.018510
RB22	KJ744385.1:1-658 Aname mellosa voucher T100078	0.144068	0.018664
RB06	KJ744385.1:1-658 Aname mellosa voucher T100078	0.144068	0.018664
RB25	KJ744385.1:1-658 Aname mellosa voucher T100078	0.144068	0.018664
RB27	KJ744390.1:2-658 Aname mellosa voucher T101154	0.144068	0.018664
RB27	KJ744611.1 Aname mellosa T10585	0.144068	0.018664
RB27	KJ744630.1 Aname mellosa T105886	0.144068	0.018664
RB27	KJ744662.1:240-658 Aname mellosa voucher T107945	0.144068	0.018664
RB27	KJ744761.1:2-658 Aname mellosa voucher T113608	0.144068	0.018664
RB27	KJ744775.1:239-658 Aname mellosa voucher T113629	0.144068	0.018664
RB27	KJ744791.1:239-658 Aname mellosa voucher T113654	0.144068	0.018664
RB27	KJ744901.1 Aname sp. MYG331 T118789	0.144068	0.018664
RB27	KJ744902.1 Aname sp. MYG331 T118791	0.144068	0.018664
RB27	KJ744911.1 Aname sp. MYG331 T118812	0.144068	0.018664
RB27	KJ745146.1:2-658 Aname mellosa voucher T126262	0.144068	0.018664
RB27	KJ745153.1:242-658 Aname mellosa voucher T126271	0.144068	0.018664
RB27	KJ745160.1:242-658 Aname mellosa voucher T126280	0.144068	0.018664
RB27	KJ745168.1 Aname mellosa T126296	0.144068	0.018664
RB27	KJ745170.1 Aname mellosa T126301	0.144068	0.018664
RB27	KJ745172.1:2-658 Aname mellosa voucher T127198	0.144068	0.018664
RB27	KJ745316.1:1-658 Aname mellosa voucher T88671	0.144068	0.018664
RB27	KJ745365.1 Aname mellosa T92127	0.144068	0.018664
RB28	KJ744785.1:239-658 Aname mellosa voucher T113642	0.144068	0.018664
RB28	KJ744803.1:2-658 Aname mellosa voucher T113666	0.144068	0.018664
RB28	KJ744901.1 Aname sp. MYG331 T118789	0.144068	0.018664
RB28	KJ744902.1 Aname sp. MYG331 T118791	0.144068	0.018664
RB28	KJ744911.1 Aname sp. MYG331 T118812	0.144068	0.018664
RB28	KJ745155.1:2-658 Aname mellosa voucher T126273	0.144068	0.018664
RB29	KJ744785.1:239-658 Aname mellosa voucher T113642	0.144068	0.018664
RB29	KJ744803.1:2-658 Aname mellosa voucher T113666	0.144068	0.018664
RB29	KJ745155.1:2-658 Aname mellosa voucher T126273	0.144068	0.018664
RB08	KJ744398.1:242-658 Aname mellosa voucher T101163	0.144068	0.018664
RB08	KJ744662.1:240-658 Aname mellosa voucher T107945	0.144068	0.018664
RB08	KJ744775.1:239-658 Aname mellosa voucher T113629	0.144068	0.018664
RB08	KJ744785.1:239-658 Aname mellosa voucher T113642	0.144068	0.018664
RB08	KJ744791.1:239-658 Aname mellosa voucher T113654	0.144068	0.018664
RB08	KJ744803.1:2-658 Aname mellosa voucher T113666	0.144068	0.018664
RB08	KJ744911.1 Aname sp. MYG331 T118812	0.144068	0.018664
RB08	KJ745004.1:2-658 Aname mellosa voucher T122242	0.144068	0.018664
RB08	KJ745155.1:2-658 Aname mellosa voucher T126273	0.144068	0.018664
RB08	KJ745170.1 Aname mellosa T126301	0.144068	0.018664
RB08	KJ745316.1:1-658 Aname mellosa voucher T88671	0.144068	0.018664
RB11	KJ744785.1:239-658 Aname mellosa voucher T113642	0.144068	0.018664
RB11	KJ744803.1:2-658 Aname mellosa voucher T113666	0.144068	0.018664
RB11	KJ745155.1:2-658 Aname mellosa voucher T126273	0.144068	0.018664
RB27	KJ744392.1:2-658 Aname mellosa voucher T101156	0.146893	0.018815
RB27	KJ744394.1 Aname mellosa T101158	0.146893	0.018815
RB27	KJ744491.1 Aname mellosa T103177	0.146893	0.018815
RB27	KJ744552.1:2-658 Aname mellosa voucher T103255	0.146893	0.018815
RB27	KJ744562.1:2-658 Aname mellosa voucher T103270	0.146893	0.018815
RB27	KJ744650.1:1-658 Aname mellosa voucher T107181	0.146893	0.018815
RB27	KJ744651.1 Aname mellosa T107182	0.146893	0.018815
RB27	KJ744781.1 Aname mellosa T113636	0.146893	0.018815
RB27	KJ744788.1:239-658 Aname mellosa voucher T113648	0.146893	0.018815
RB27	KJ744890.1:2-658 Aname mellosa voucher T116858	0.146893	0.018815
RB27	KJ744909.1 Aname sp. MYG331 T118805	0.146893	0.018815
RB27	KJ744910.1 Aname sp. MYG331 T118811	0.146893	0.018815
RB27	KJ744914.1 Aname sp. MYG331 T118818	0.146893	0.018815
RB27	KJ745159.1:2-658 Aname mellosa voucher T126279	0.146893	0.018815
RB27	KJ745191.1:2-658 Aname mellosa voucher T127228	0.146893	0.018815

Mt Gibson specimen	Reference specimen	p-distance	SE
RB27	KJ745231.1 Aname sp. MYG351 T74238	0.146893	0.018815
RB27	KJ745232.1 Aname sp. MYG351 T74241	0.146893	0.018815
RB27	KJ745233.1 Aname sp. MYG351 T74247	0.146893	0.018815
RB27	KJ745287.1 Aname sp. MYG351 T82303	0.146893	0.018815
RB27	KJ745293.1 Aname sp. MYG351 T82309	0.146893	0.018815
RB27	KJ745371.1 Aname mellosa T92456	0.146893	0.018815
RB27	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB28	KJ744398.1:242-658 Aname mellosa voucher T101163	0.146893	0.018815
RB28	KJ744623.1:239-658 Aname mellosa voucher T105871	0.146893	0.018815
RB28	KJ744661.1:240-658 Aname mellosa voucher T107942	0.146893	0.018815
RB28	KJ744669.1:242-658 Aname mellosa voucher T107968	0.146893	0.018815
RB28	KJ744781.1 Aname mellosa T113636	0.146893	0.018815
RB28	KJ744909.1 Aname sp. MYG331 T118805	0.146893	0.018815
RB28	KJ744910.1 Aname sp. MYG331 T118811	0.146893	0.018815
RB28	KJ744914.1 Aname sp. MYG331 T118818	0.146893	0.018815
RB28	KJ744926.1:2-658 Aname mellosa voucher T119710	0.146893	0.018815
RB28	KJ745012.1 Aname mellosa T122263	0.146893	0.018815
RB28	KJ745051.1 Aname mellosa T122823	0.146893	0.018815
RB28	KJ745093.1 Aname mellosa T122870	0.146893	0.018815
RB28	KJ745134.1:242-658 Aname mellosa voucher T126250	0.146893	0.018815
RB28	KJ745143.1:242-658 Aname mellosa voucher T126259	0.146893	0.018815
RB28	KJ745198.1:1-658 Aname mainae voucher T42354	0.146893	0.018815
RB28	KJ745231.1 Aname sp. MYG351 T74238	0.146893	0.018815
RB28	KJ745232.1 Aname sp. MYG351 T74241	0.146893	0.018815
RB28	KJ745233.1 Aname sp. MYG351 T74247	0.146893	0.018815
RB28	KJ745287.1 Aname sp. MYG351 T82303	0.146893	0.018815
RB28	KJ745293.1 Aname sp. MYG351 T82309	0.146893	0.018815
RB28	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB29	KJ744623.1:239-658 Aname mellosa voucher T105871	0.146893	0.018815
RB29	KJ744661.1:240-658 Aname mellosa voucher T107942	0.146893	0.018815
RB29	KJ744669.1:242-658 Aname mellosa voucher T107968	0.146893	0.018815
RB29	KJ744781.1 Aname mellosa T113636	0.146893	0.018815
RB29	KJ744926.1:2-658 Aname mellosa voucher T119710	0.146893	0.018815
RB29	KJ744982.1 Aname mellosa T122207	0.146893	0.018815
RB29	KJ745012.1 Aname mellosa T122263	0.146893	0.018815
RB29	KJ745051.1 Aname mellosa T122823	0.146893	0.018815
RB29	KJ745093.1 Aname mellosa T122870	0.146893	0.018815
RB29	KJ745134.1:242-658 Aname mellosa voucher T126250	0.146893	0.018815
RB29	KJ745143.1:242-658 Aname mellosa voucher T126259	0.146893	0.018815
RB29	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB08	KJ744390.1:2-658 Aname mellosa voucher T101154	0.146893	0.018815
RB08	KJ744661.1:240-658 Aname mellosa voucher T107942	0.146893	0.018815
RB08	KJ744669.1:242-658 Aname mellosa voucher T107968	0.146893	0.018815
RB08	KJ744761.1:2-658 Aname mellosa voucher T113608	0.146893	0.018815
RB08	KJ744788.1:239-658 Aname mellosa voucher T113648	0.146893	0.018815
RB08	KJ744914.1 Aname sp. MYG331 T118818	0.146893	0.018815
RB08	KJ744926.1:2-658 Aname mellosa voucher T119710	0.146893	0.018815
RB08	KJ745012.1 Aname mellosa T122263	0.146893	0.018815
RB08	KJ745051.1 Aname mellosa T122823	0.146893	0.018815
RB08	KJ745093.1 Aname mellosa T122870	0.146893	0.018815
RB08	KJ745134.1:242-658 Aname mellosa voucher T126250	0.146893	0.018815
RB08	KJ745143.1:242-658 Aname mellosa voucher T126259	0.146893	0.018815
RB08	KJ745146.1:2-658 Aname mellosa voucher T126262	0.146893	0.018815
RB08	KJ745159.1:2-658 Aname mellosa voucher T126279	0.146893	0.018815
RB08	KJ745172.1:2-658 Aname mellosa voucher T127198	0.146893	0.018815
RB08	KJ745240.1 Aname sp. MYG177 voucher T74758	0.146893	0.018815
RB11	KJ744623.1:239-658 Aname mellosa voucher T105871	0.146893	0.018815
RB11	KJ744661.1:240-658 Aname mellosa voucher T107942	0.146893	0.018815
RB11	KJ744669.1:242-658 Aname mellosa voucher T107968	0.146893	0.018815
RB11	KJ744781.1 Aname mellosa T113636	0.146893	0.018815
RB11	KJ744926.1:2-658 Aname mellosa voucher T119710	0.146893	0.018815
RB11	KJ744982.1 Aname mellosa T122207	0.146893	0.018815
RB11	KJ745012.1 Aname mellosa T122263	0.146893	0.018815
RB11	KJ745051.1 Aname mellosa T122823	0.146893	0.018815
RB11	KJ745093.1 Aname mellosa T122870	0.146893	0.018815
RB11	KJ745134.1:242-658 Aname mellosa voucher T126250	0.146893	0.018815
RB11	KJ745143.1:242-658 Aname mellosa voucher T126259	0.146893	0.018815
RB11	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB22	KJ744474.1:2-658 Aname mellosa voucher T102834	0.149718	0.018963
RB06	KJ744474.1:2-658 Aname mellosa voucher T102834	0.149718	0.018963
RB25	KJ744474.1:2-658 Aname mellosa voucher T102834	0.149718	0.018963
RB27	KJ744432.1 Aname sp. MYG368 voucher T102108	0.149718	0.018963
RB27	KJ744720.1 Aname sp. MYG001 T110201	0.149718	0.018963
RB27	KJ744987.1 Aname mellosa T122215	0.149718	0.018963
RB27	KJ745004.1:2-658 Aname mellosa voucher T122242	0.149718	0.018963
RB27	KJ745176.1:2-658 Aname mellosa voucher T127205	0.149718	0.018963
RB27	KJ745240.1 Aname sp. MYG177 voucher T74758	0.149718	0.018963
RB27	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB28	KJ744390.1:2-658 Aname mellosa voucher T101154	0.149718	0.018963
RB28	KJ744611.1 Aname mellosa T10585	0.149718	0.018963
RB28	KJ744630.1 Aname mellosa T105886	0.149718	0.018963
RB28	KJ744662.1:240-658 Aname mellosa voucher T107945	0.149718	0.018963
RB28	KJ744761.1:2-658 Aname mellosa voucher T113608	0.149718	0.018963
RB28	KJ744775.1:239-658 Aname mellosa voucher T113629	0.149718	0.018963
RB28	KJ744791.1:239-658 Aname mellosa voucher T113654	0.149718	0.018963
RB28	KJ745146.1:2-658 Aname mellosa voucher T126262	0.149718	0.018963

Mt Gibson specimen	Reference specimen	p-distance	SE
RB28	KJ745153.1:242-658 Aname mellosa voucher T126271	0.149718	0.018963
RB28	KJ745160.1:242-658 Aname mellosa voucher T126280	0.149718	0.018963
RB28	KJ745168.1 Aname mellosa T126296	0.149718	0.018963
RB28	KJ745170.1 Aname mellosa T126301	0.149718	0.018963
RB28	KJ745172.1:2-658 Aname mellosa voucher T127198	0.149718	0.018963
RB28	KJ745240.1 Aname sp. MYG177 voucher T74758	0.149718	0.018963
RB28	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB28	KJ745316.1:1-658 Aname mellosa voucher T88671	0.149718	0.018963
RB28	KJ745365.1 Aname mellosa T92127	0.149718	0.018963
RB29	KJ744398.1:242-658 Aname mellosa voucher T101163	0.149718	0.018963
RB29	KJ744611.1 Aname mellosa T10585	0.149718	0.018963
RB29	KJ744630.1 Aname mellosa T105886	0.149718	0.018963
RB29	KJ744650.1:1-658 Aname mellosa voucher T107181	0.149718	0.018963
RB29	KJ744662.1:240-658 Aname mellosa voucher T107945	0.149718	0.018963
RB29	KJ744775.1:239-658 Aname mellosa voucher T113629	0.149718	0.018963
RB29	KJ744791.1:239-658 Aname mellosa voucher T113654	0.149718	0.018963
RB29	KJ744911.1 Aname sp. MYG331 T118812	0.149718	0.018963
RB29	KJ745146.1:2-658 Aname mellosa voucher T126262	0.149718	0.018963
RB29	KJ745153.1:242-658 Aname mellosa voucher T126271	0.149718	0.018963
RB29	KJ745160.1:242-658 Aname mellosa voucher T126280	0.149718	0.018963
RB29	KJ745168.1 Aname mellosa T126296	0.149718	0.018963
RB29	KJ745170.1 Aname mellosa T126301	0.149718	0.018963
RB29	KJ745231.1 Aname sp. MYG351 T74238	0.149718	0.018963
RB29	KJ745232.1 Aname sp. MYG351 T74241	0.149718	0.018963
RB29	KJ745233.1 Aname sp. MYG351 T74247	0.149718	0.018963
RB29	KJ745287.1 Aname sp. MYG351 T82303	0.149718	0.018963
RB29	KJ745293.1 Aname sp. MYG351 T82309	0.149718	0.018963
RB29	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB29	KJ745365.1 Aname mellosa T92127	0.149718	0.018963
RB08	KJ744392.1:2-658 Aname mellosa voucher T101156	0.149718	0.018963
RB08	KJ744491.1 Aname mellosa T103177	0.149718	0.018963
RB08	KJ744552.1:2-658 Aname mellosa voucher T103255	0.149718	0.018963
RB08	KJ744562.1:2-658 Aname mellosa voucher T103270	0.149718	0.018963
RB08	KJ744611.1 Aname mellosa T10585	0.149718	0.018963
RB08	KJ744630.1 Aname mellosa T105886	0.149718	0.018963
RB08	KJ744650.1:1-658 Aname mellosa voucher T107181	0.149718	0.018963
RB08	KJ744651.1 Aname mellosa T107182	0.149718	0.018963
RB08	KJ744720.1 Aname sp. MYG001 T110201	0.149718	0.018963
RB08	KJ744901.1 Aname sp. MYG331 T118789	0.149718	0.018963
RB08	KJ744902.1 Aname sp. MYG331 T118791	0.149718	0.018963
RB08	KJ744987.1 Aname mellosa T122215	0.149718	0.018963
RB08	KJ745153.1:242-658 Aname mellosa voucher T126271	0.149718	0.018963
RB08	KJ745160.1:242-658 Aname mellosa voucher T126280	0.149718	0.018963
RB08	KJ745168.1 Aname mellosa T126296	0.149718	0.018963
RB08	KJ745191.1:2-658 Aname mellosa voucher T127228	0.149718	0.018963
RB08	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB08	KJ745365.1 Aname mellosa T92127	0.149718	0.018963
RB11	KJ744398.1:242-658 Aname mellosa voucher T101163	0.149718	0.018963
RB11	KJ744611.1 Aname mellosa T10585	0.149718	0.018963
RB11	KJ744630.1 Aname mellosa T105886	0.149718	0.018963
RB11	KJ744650.1:1-658 Aname mellosa voucher T107181	0.149718	0.018963
RB11	KJ744662.1:240-658 Aname mellosa voucher T107945	0.149718	0.018963
RB11	KJ744775.1:239-658 Aname mellosa voucher T113629	0.149718	0.018963
RB11	KJ744791.1:239-658 Aname mellosa voucher T113654	0.149718	0.018963
RB11	KJ744911.1 Aname sp. MYG331 T118812	0.149718	0.018963
RB11	KJ745146.1:2-658 Aname mellosa voucher T126262	0.149718	0.018963
RB11	KJ745153.1:242-658 Aname mellosa voucher T126271	0.149718	0.018963
RB11	KJ745160.1:242-658 Aname mellosa voucher T126280	0.149718	0.018963
RB11	KJ745168.1 Aname mellosa T126296	0.149718	0.018963
RB11	KJ745170.1 Aname mellosa T126301	0.149718	0.018963
RB11	KJ745231.1 Aname sp. MYG351 T74238	0.149718	0.018963
RB11	KJ745232.1 Aname sp. MYG351 T74241	0.149718	0.018963
RB11	KJ745233.1 Aname sp. MYG351 T74247	0.149718	0.018963
RB11	KJ745287.1 Aname sp. MYG351 T82303	0.149718	0.018963
RB11	KJ745293.1 Aname sp. MYG351 T82309	0.149718	0.018963
RB11	KJ745299.1 Aname sp. MYG001 T86678	0.149718	0.018963
RB11	KJ745365.1 Aname mellosa T92127	0.149718	0.018963
RB27	KJ744571.1 Aname mellosa T103906	0.152542	0.019110
RB28	KJ744392.1:2-658 Aname mellosa voucher T101156	0.152542	0.019110
RB28	KJ744552.1:2-658 Aname mellosa voucher T103255	0.152542	0.019110
RB28	KJ744562.1:2-658 Aname mellosa voucher T103270	0.152542	0.019110
RB28	KJ744650.1:1-658 Aname mellosa voucher T107181	0.152542	0.019110
RB28	KJ744651.1 Aname mellosa T107182	0.152542	0.019110
RB28	KJ745191.1:2-658 Aname mellosa voucher T127228	0.152542	0.019110
RB29	KJ744390.1:2-658 Aname mellosa voucher T101154	0.152542	0.019110
RB29	KJ744394.1 Aname mellosa T101158	0.152542	0.019110
RB29	KJ744761.1:2-658 Aname mellosa voucher T113608	0.152542	0.019110
RB29	KJ745159.1:2-658 Aname mellosa voucher T126279	0.152542	0.019110
RB29	KJ745172.1:2-658 Aname mellosa voucher T127198	0.152542	0.019110
RB08	KJ744571.1 Aname mellosa T103906	0.152542	0.019110
RB11	KJ744390.1:2-658 Aname mellosa voucher T101154	0.152542	0.019110
RB11	KJ744394.1 Aname mellosa T101158	0.152542	0.019110
RB11	KJ744761.1:2-658 Aname mellosa voucher T113608	0.152542	0.019110
RB11	KJ745159.1:2-658 Aname mellosa voucher T126279	0.152542	0.019110
RB11	KJ745172.1:2-658 Aname mellosa voucher T127198	0.152542	0.019110
RB27	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.152542	0.019110

Mt Gibson specimen	Reference specimen	p-distance	SE
RB27	KJ744412.1 Aname sp. MYG001 102044	0.152542	0.019110
RB27	KJ745198.1:1-658 Aname mainae voucher T42354	0.152542	0.019110
RB27	KJ745370.1 Aname mellosa T92455	0.152542	0.019110
RB27	KJ745396.1 Aname mellosa T95400	0.152542	0.019110
RB28	KJ744394.1 Aname mellosa T101158	0.152542	0.019110
RB28	KJ744491.1 Aname mellosa T103177	0.152542	0.019110
RB28	KJ744720.1 Aname sp. MYG001 T110201	0.152542	0.019110
RB28	KJ744788.1:239-658 Aname mellosa voucher T113648	0.152542	0.019110
RB28	KJ744890.1:2-658 Aname mellosa voucher T116858	0.152542	0.019110
RB28	KJ745159.1:2-658 Aname mellosa voucher T126279	0.152542	0.019110
RB28	KJ745371.1 Aname mellosa T92456	0.152542	0.019110
RB29	KJ744491.1 Aname mellosa T103177	0.152542	0.019110
RB29	KJ744651.1 Aname mellosa T107182	0.152542	0.019110
RB29	KJ744788.1:239-658 Aname mellosa voucher T113648	0.152542	0.019110
RB29	KJ744914.1 Aname sp. MYG331 T118818	0.152542	0.019110
RB08	KJ744394.1 Aname mellosa T101158	0.152542	0.019110
RB08	KJ744412.1 Aname sp. MYG001 102044	0.152542	0.019110
RB08	KJ744432.1 Aname sp. MYG368 voucher T102108	0.152542	0.019110
RB08	KJ744909.1 Aname sp. MYG331 T118805	0.152542	0.019110
RB08	KJ744910.1 Aname sp. MYG331 T118811	0.152542	0.019110
RB08	KJ745176.1:2-658 Aname mellosa voucher T127205	0.152542	0.019110
RB08	KJ745231.1 Aname sp. MYG351 T74238	0.152542	0.019110
RB08	KJ745232.1 Aname sp. MYG351 T74241	0.152542	0.019110
RB08	KJ745233.1 Aname sp. MYG351 T74247	0.152542	0.019110
RB08	KJ745287.1 Aname sp. MYG351 T82303	0.152542	0.019110
RB08	KJ745293.1 Aname sp. MYG351 T82309	0.152542	0.019110
RB11	KJ744491.1 Aname mellosa T103177	0.152542	0.019110
RB11	KJ744651.1 Aname mellosa T107182	0.152542	0.019110
RB11	KJ744788.1:239-658 Aname mellosa voucher T113648	0.152542	0.019110
RB11	KJ744914.1 Aname sp. MYG331 T118818	0.152542	0.019110
RB22	KJ744623.1:239-658 Aname mellosa voucher T105871	0.155367	0.019254
RB22	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB22	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB22	KJ745170.1 Aname mellosa T126301	0.155367	0.019254
RB22	KJ745231.1 Aname sp. MYG351 T74238	0.155367	0.019254
RB22	KJ745232.1 Aname sp. MYG351 T74241	0.155367	0.019254
RB22	KJ745233.1 Aname sp. MYG351 T74247	0.155367	0.019254
RB22	KJ745287.1 Aname sp. MYG351 T82303	0.155367	0.019254
RB22	KJ745293.1 Aname sp. MYG351 T82309	0.155367	0.019254
RB22	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB06	KJ744623.1:239-658 Aname mellosa voucher T105871	0.155367	0.019254
RB06	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB06	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB06	KJ745170.1 Aname mellosa T126301	0.155367	0.019254
RB06	KJ745231.1 Aname sp. MYG351 T74238	0.155367	0.019254
RB06	KJ745232.1 Aname sp. MYG351 T74241	0.155367	0.019254
RB06	KJ745233.1 Aname sp. MYG351 T74247	0.155367	0.019254
RB06	KJ745287.1 Aname sp. MYG351 T82303	0.155367	0.019254
RB06	KJ745293.1 Aname sp. MYG351 T82309	0.155367	0.019254
RB06	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB25	KJ744623.1:239-658 Aname mellosa voucher T105871	0.155367	0.019254
RB25	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB25	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB25	KJ745170.1 Aname mellosa T126301	0.155367	0.019254
RB25	KJ745231.1 Aname sp. MYG351 T74238	0.155367	0.019254
RB25	KJ745232.1 Aname sp. MYG351 T74241	0.155367	0.019254
RB25	KJ745233.1 Aname sp. MYG351 T74247	0.155367	0.019254
RB25	KJ745287.1 Aname sp. MYG351 T82303	0.155367	0.019254
RB25	KJ745293.1 Aname sp. MYG351 T82309	0.155367	0.019254
RB25	KJ745375.1 Aname sp. MYG034 T93314	0.155367	0.019254
RB27	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.155367	0.019254
RB27	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.155367	0.019254
RB27	KJ744409.1 Aname sp. MYG001 T102040	0.155367	0.019254
RB27	KJ744577.1 Aname mellosa T103913	0.155367	0.019254
RB27	KJ744722.1 Aname sp. MYG001 T110203	0.155367	0.019254
RB27	KJ744724.1 Aname sp. MYG001 T110206	0.155367	0.019254
RB27	KJ744917.1 Aname sp. MYG004 voucher T118822	0.155367	0.019254
RB27	KJ745184.1:2-658 Aname mellosa voucher T127219	0.155367	0.019254
RB27	KJ745398.1 Aname mellosa T95402	0.155367	0.019254
RB27	KJ745399.1 Aname sp. MYG004 voucher T95403	0.155367	0.019254
RB28	KJ744412.1 Aname sp. MYG001 102044	0.155367	0.019254
RB28	KJ744432.1 Aname sp. MYG368 voucher T102108	0.155367	0.019254
RB28	KJ744917.1 Aname sp. MYG004 voucher T118822	0.155367	0.019254
RB28	KJ744987.1 Aname mellosa T122215	0.155367	0.019254
RB28	KJ745004.1:2-658 Aname mellosa voucher T122242	0.155367	0.019254
RB28	KJ745176.1:2-658 Aname mellosa voucher T127205	0.155367	0.019254
RB28	KJ745399.1 Aname sp. MYG004 voucher T95403	0.155367	0.019254
RB29	KJ744392.1:2-658 Aname mellosa voucher T101156	0.155367	0.019254
RB29	KJ744552.1:2-658 Aname mellosa voucher T103255	0.155367	0.019254
RB29	KJ744562.1:2-658 Aname mellosa voucher T103270	0.155367	0.019254
RB29	KJ744720.1 Aname sp. MYG001 T110201	0.155367	0.019254
RB29	KJ744890.1:2-658 Aname mellosa voucher T116858	0.155367	0.019254
RB29	KJ744901.1 Aname sp. MYG331 T118789	0.155367	0.019254
RB29	KJ744902.1 Aname sp. MYG331 T118791	0.155367	0.019254
RB29	KJ744987.1 Aname mellosa T122215	0.155367	0.019254
RB29	KJ745191.1:2-658 Aname mellosa voucher T127228	0.155367	0.019254

Mt Gibson specimen	Reference specimen	p-distance	SE
RB29	KJ745316.1:1-658 Aname mellosa voucher T88671	0.155367	0.019254
RB08	KJ744409.1 Aname sp. MYG001 T102040	0.155367	0.019254
RB08	KJ744474.1:2-658 Aname mellosa voucher T102834	0.155367	0.019254
RB08	KJ744577.1 Aname mellosa T103913	0.155367	0.019254
RB08	KJ744722.1 Aname sp. MYG001 T110203	0.155367	0.019254
RB08	KJ744724.1 Aname sp. MYG001 T110206	0.155367	0.019254
RB08	KJ744890.1:2-658 Aname mellosa voucher T116858	0.155367	0.019254
RB08	KJ745239.1 Aname sp. MYG177 T74755	0.155367	0.019254
RB08	KJ745371.1 Aname mellosa T92456	0.155367	0.019254
RB08	KJ745399.1 Aname sp. MYG004 voucher T95403	0.155367	0.019254
RB11	KJ744392.1:2-658 Aname mellosa voucher T101156	0.155367	0.019254
RB11	KJ744552.1:2-658 Aname mellosa voucher T103255	0.155367	0.019254
RB11	KJ744562.1:2-658 Aname mellosa voucher T103270	0.155367	0.019254
RB11	KJ744720.1 Aname sp. MYG001 T110201	0.155367	0.019254
RB11	KJ744890.1:2-658 Aname mellosa voucher T116858	0.155367	0.019254
RB11	KJ744901.1 Aname sp. MYG331 T118789	0.155367	0.019254
RB11	KJ744902.1 Aname sp. MYG331 T118791	0.155367	0.019254
RB11	KJ744987.1 Aname mellosa T122215	0.155367	0.019254
RB11	KJ745191.1:2-658 Aname mellosa voucher T127228	0.155367	0.019254
RB11	KJ745316.1:1-658 Aname mellosa voucher T88671	0.155367	0.019254
RB22	KJ744462.1 Aname mellosa voucher T102746	0.158192	0.019395
RB22	KJ744977.1:2-658 Aname mellosa voucher T122200	0.158192	0.019395
RB22	KJ745159.1:2-658 Aname mellosa voucher T126279	0.158192	0.019395
RB22	KJ745299.1 Aname sp. MYG001 T86678	0.158192	0.019395
RB06	KJ744462.1 Aname mellosa voucher T102746	0.158192	0.019395
RB06	KJ744977.1:2-658 Aname mellosa voucher T122200	0.158192	0.019395
RB06	KJ745159.1:2-658 Aname mellosa voucher T126279	0.158192	0.019395
RB06	KJ745299.1 Aname sp. MYG001 T86678	0.158192	0.019395
RB25	KJ744462.1 Aname mellosa voucher T102746	0.158192	0.019395
RB25	KJ744977.1:2-658 Aname mellosa voucher T122200	0.158192	0.019395
RB25	KJ745159.1:2-658 Aname mellosa voucher T126279	0.158192	0.019395
RB25	KJ745299.1 Aname sp. MYG001 T86678	0.158192	0.019395
RB27	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.158192	0.019395
RB27	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.158192	0.019395
RB27	KJ744385.1:1-658 Aname mellosa voucher T100078	0.158192	0.019395
RB27	KJ744648.1 Aname sp. MYG373 T107087	0.158192	0.019395
RB27	KJ744670.1 Aname sp. MYG004 voucher T107973	0.158192	0.019395
RB27	KJ744990.1:240-658 Aname mellosa voucher T122219	0.158192	0.019395
RB27	KJ745239.1 Aname sp. MYG177 T74755	0.158192	0.019395
RB28	KJ744409.1 Aname sp. MYG001 T102040	0.158192	0.019395
RB28	KJ744571.1 Aname mellosa T103906	0.158192	0.019395
RB28	KJ744648.1 Aname sp. MYG373 T107087	0.158192	0.019395
RB28	KJ744670.1 Aname sp. MYG004 voucher T107973	0.158192	0.019395
RB28	KJ744722.1 Aname sp. MYG001 T110203	0.158192	0.019395
RB28	KJ744724.1 Aname sp. MYG001 T110206	0.158192	0.019395
RB28	KJ745239.1 Aname sp. MYG177 T74755	0.158192	0.019395
RB29	KJ744432.1 Aname sp. MYG368 voucher T102108	0.158192	0.019395
RB29	KJ744909.1 Aname sp. MYG331 T118805	0.158192	0.019395
RB29	KJ744910.1 Aname sp. MYG331 T118811	0.158192	0.019395
RB29	KJ745004.1:2-658 Aname mellosa voucher T122242	0.158192	0.019395
RB29	KJ745176.1:2-658 Aname mellosa voucher T127205	0.158192	0.019395
RB08	KJ744385.1:1-658 Aname mellosa voucher T100078	0.158192	0.019395
RB08	KJ744648.1 Aname sp. MYG373 T107087	0.158192	0.019395
RB08	KJ744990.1:240-658 Aname mellosa voucher T122219	0.158192	0.019395
RB08	KJ745184.1:2-658 Aname mellosa voucher T127219	0.158192	0.019395
RB08	KJ745314.1:2-658 Aname mellosa voucher T88668	0.158192	0.019395
RB11	KJ744432.1 Aname sp. MYG368 voucher T102108	0.158192	0.019395
RB11	KJ744909.1 Aname sp. MYG331 T118805	0.158192	0.019395
RB11	KJ744910.1 Aname sp. MYG331 T118811	0.158192	0.019395
RB11	KJ745004.1:2-658 Aname mellosa voucher T122242	0.158192	0.019395
RB11	KJ745176.1:2-658 Aname mellosa voucher T127205	0.158192	0.019395
RB22	KJ744473.1:2-658 Aname mellosa voucher T102833	0.158192	0.019395
RB22	KJ744911.1 Aname sp. MYG331 T118812	0.158192	0.019395
RB06	KJ744473.1:2-658 Aname mellosa voucher T102833	0.158192	0.019395
RB06	KJ744911.1 Aname sp. MYG331 T118812	0.158192	0.019395
RB25	KJ744473.1:2-658 Aname mellosa voucher T102833	0.158192	0.019395
RB25	KJ744911.1 Aname sp. MYG331 T118812	0.158192	0.019395
RB28	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.158192	0.019395
RB28	KJ745370.1 Aname mellosa T92455	0.158192	0.019395
RB28	KJ745396.1 Aname mellosa T95400	0.158192	0.019395
RB29	KJ744412.1 Aname sp. MYG001 102044	0.158192	0.019395
RB08	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.158192	0.019395
RB08	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.158192	0.019395
RB11	KJ744412.1 Aname sp. MYG001 102044	0.158192	0.019395
RB22	KJ745371.1 Aname mellosa T92456	0.161017	0.019535
RB06	KJ745371.1 Aname mellosa T92456	0.161017	0.019535
RB25	KJ745371.1 Aname mellosa T92456	0.161017	0.019535
RB22	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB22	KJ744447.1 Aname mellosa voucher T102731	0.161017	0.019535
RB22	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB22	KJ744651.1 Aname mellosa T107182	0.161017	0.019535
RB22	KJ744662.1:240-658 Aname mellosa voucher T107945	0.161017	0.019535
RB22	KJ744761.1:2-658 Aname mellosa voucher T113608	0.161017	0.019535
RB22	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB22	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB22	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB22	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB22	KJ744914.1 Aname sp. MYG331 T118818	0.161017	0.019535
RB22	KJ745051.1 Aname mellosa T122823	0.161017	0.019535
RB22	KJ745093.1 Aname mellosa T122870	0.161017	0.019535
RB22	KJ745155.1:2-658 Aname mellosa voucher T126273	0.161017	0.019535
RB22	KJ745168.1 Aname mellosa T126296	0.161017	0.019535
RB22	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB22	KJ745314.1:2-658 Aname mellosa voucher T88668	0.161017	0.019535
RB06	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB06	KJ744447.1 Aname mellosa voucher T102731	0.161017	0.019535
RB06	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB06	KJ744651.1 Aname mellosa T107182	0.161017	0.019535
RB06	KJ744662.1:240-658 Aname mellosa voucher T107945	0.161017	0.019535
RB06	KJ744761.1:2-658 Aname mellosa voucher T113608	0.161017	0.019535
RB06	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB06	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB06	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB06	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB06	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB06	KJ744914.1 Aname sp. MYG331 T118818	0.161017	0.019535
RB06	KJ745051.1 Aname mellosa T122823	0.161017	0.019535
RB06	KJ745093.1 Aname mellosa T122870	0.161017	0.019535
RB06	KJ745155.1:2-658 Aname mellosa voucher T126273	0.161017	0.019535
RB06	KJ745168.1 Aname mellosa T126296	0.161017	0.019535
RB06	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB06	KJ745314.1:2-658 Aname mellosa voucher T88668	0.161017	0.019535
RB25	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB25	KJ744447.1 Aname mellosa voucher T102731	0.161017	0.019535
RB25	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB25	KJ744651.1 Aname mellosa T107182	0.161017	0.019535
RB25	KJ744662.1:240-658 Aname mellosa voucher T107945	0.161017	0.019535
RB25	KJ744761.1:2-658 Aname mellosa voucher T113608	0.161017	0.019535
RB25	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB25	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB25	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB25	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB25	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB25	KJ744914.1 Aname sp. MYG331 T118818	0.161017	0.019535
RB25	KJ745051.1 Aname mellosa T122823	0.161017	0.019535
RB25	KJ745093.1 Aname mellosa T122870	0.161017	0.019535
RB25	KJ745155.1:2-658 Aname mellosa voucher T126273	0.161017	0.019535
RB25	KJ745168.1 Aname mellosa T126296	0.161017	0.019535
RB25	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB25	KJ745314.1:2-658 Aname mellosa voucher T88668	0.161017	0.019535
RB27	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.161017	0.019535
RB27	KJ744474.1:2-658 Aname mellosa voucher T102834	0.161017	0.019535
RB27	KJ744717.1 Aname sp. MYG001 T110195	0.161017	0.019535
RB27	KJ744718.1 Aname sp. MYG00 T110197	0.161017	0.019535
RB27	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.161017	0.019535
RB27	KJ745488.1 Aname ellenae T98894	0.161017	0.019535
RB27	KJ745489.1 Aname ellenae T98895	0.161017	0.019535
RB28	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.161017	0.019535
RB28	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.161017	0.019535
RB28	KJ744577.1 Aname mellosa T103913	0.161017	0.019535
RB28	KJ745184.1:2-658 Aname mellosa voucher T127219	0.161017	0.019535
RB28	KJ745398.1 Aname mellosa T95402	0.161017	0.019535
RB29	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.161017	0.019535
RB29	KJ744409.1 Aname sp. MYG001 T102040	0.161017	0.019535
RB29	KJ744571.1 Aname mellosa T103906	0.161017	0.019535
RB29	KJ744722.1 Aname sp. MYG001 T110203	0.161017	0.019535
RB29	KJ744724.1 Aname sp. MYG001 T110206	0.161017	0.019535
RB29	KJ745240.1 Aname sp. MYG177 voucher T74758	0.161017	0.019535
RB08	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.161017	0.019535
RB08	KJ744717.1 Aname sp. MYG001 T110195	0.161017	0.019535
RB08	KJ744718.1 Aname sp. MYG00 T110197	0.161017	0.019535
RB08	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.161017	0.019535
RB08	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB08	KJ745370.1 Aname mellosa T92455	0.161017	0.019535
RB08	KJ745396.1 Aname mellosa T95400	0.161017	0.019535
RB11	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.161017	0.019535
RB11	KJ744409.1 Aname sp. MYG001 T102040	0.161017	0.019535
RB11	KJ744571.1 Aname mellosa T103906	0.161017	0.019535
RB11	KJ744722.1 Aname sp. MYG001 T110203	0.161017	0.019535
RB11	KJ744724.1 Aname sp. MYG001 T110206	0.161017	0.019535
RB11	KJ745240.1 Aname sp. MYG177 voucher T74758	0.161017	0.019535
RB22	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.163842	0.019672
RB22	KJ744392.1:2-658 Aname mellosa voucher T101156	0.163842	0.019672
RB22	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB22	KJ744552.1:2-658 Aname mellosa voucher T103255	0.163842	0.019672
RB22	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB22	KJ744609.1:1-658 Aname mellosa voucher T105213	0.163842	0.019672
RB22	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB22	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB22	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB22	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	KJ744890.1:2-658 Aname mellosa voucher T116858	0.163842	0.019672
RB22	KJ744901.1 Aname sp. MYG331 T118789	0.163842	0.019672
RB22	KJ744902.1 Aname sp. MYG331 T118791	0.163842	0.019672
RB22	KJ744926.1:2-658 Aname mellosa voucher T119710	0.163842	0.019672
RB22	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB22	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB22	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB22	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB22	KJ745176.1:2-658 Aname mellosa voucher T127205	0.163842	0.019672
RB22	KJ745191.1:2-658 Aname mellosa voucher T127228	0.163842	0.019672
RB22	KJ745240.1 Aname sp. MYG177 voucher T74758	0.163842	0.019672
RB22	KJ745365.1 Aname mellosa T92127	0.163842	0.019672
RB06	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.163842	0.019672
RB06	KJ744392.1:2-658 Aname mellosa voucher T101156	0.163842	0.019672
RB06	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB06	KJ744552.1:2-658 Aname mellosa voucher T103255	0.163842	0.019672
RB06	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB06	KJ744609.1:1-658 Aname mellosa voucher T105213	0.163842	0.019672
RB06	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB06	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB06	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB06	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB06	KJ744890.1:2-658 Aname mellosa voucher T116858	0.163842	0.019672
RB06	KJ744901.1 Aname sp. MYG331 T118789	0.163842	0.019672
RB06	KJ744902.1 Aname sp. MYG331 T118791	0.163842	0.019672
RB06	KJ744926.1:2-658 Aname mellosa voucher T119710	0.163842	0.019672
RB06	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB06	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB06	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB06	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB06	KJ745176.1:2-658 Aname mellosa voucher T127205	0.163842	0.019672
RB06	KJ745191.1:2-658 Aname mellosa voucher T127228	0.163842	0.019672
RB06	KJ745240.1 Aname sp. MYG177 voucher T74758	0.163842	0.019672
RB06	KJ745365.1 Aname mellosa T92127	0.163842	0.019672
RB25	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.163842	0.019672
RB25	KJ744392.1:2-658 Aname mellosa voucher T101156	0.163842	0.019672
RB25	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB25	KJ744552.1:2-658 Aname mellosa voucher T103255	0.163842	0.019672
RB25	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB25	KJ744609.1:1-658 Aname mellosa voucher T105213	0.163842	0.019672
RB25	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB25	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB25	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB25	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB25	KJ744890.1:2-658 Aname mellosa voucher T116858	0.163842	0.019672
RB25	KJ744901.1 Aname sp. MYG331 T118789	0.163842	0.019672
RB25	KJ744902.1 Aname sp. MYG331 T118791	0.163842	0.019672
RB25	KJ744926.1:2-658 Aname mellosa voucher T119710	0.163842	0.019672
RB25	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB25	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB25	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB25	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB25	KJ745176.1:2-658 Aname mellosa voucher T127205	0.163842	0.019672
RB25	KJ745191.1:2-658 Aname mellosa voucher T127228	0.163842	0.019672
RB25	KJ745240.1 Aname sp. MYG177 voucher T74758	0.163842	0.019672
RB25	KJ745365.1 Aname mellosa T92127	0.163842	0.019672
RB27	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.163842	0.019672
RB27	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.163842	0.019672
RB27	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.163842	0.019672
RB27	KJ744447.1 Aname mellosa voucher T102731	0.163842	0.019672
RB27	KJ744649.1 Aname sp. MYG373 T107089	0.163842	0.019672
RB27	KJ744960.1 Aname sp. MYG004 voucher T119998	0.163842	0.019672
RB27	KJ745314.1:2-658 Aname mellosa voucher T88668	0.163842	0.019672
RB27	KJ745469.1 Aname sp. MYG366 T98768	0.163842	0.019672
RB27	KJ745479.1 Aname ellenae T98883	0.163842	0.019672
RB28	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.163842	0.019672
RB28	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.163842	0.019672
RB28	KJ744385.1:1-658 Aname mellosa voucher T100078	0.163842	0.019672
RB28	KJ744649.1 Aname sp. MYG373 T107089	0.163842	0.019672
RB28	KJ744717.1 Aname sp. MYG001 T110195	0.163842	0.019672
RB28	KJ744718.1 Aname sp. MYG00 T110197	0.163842	0.019672
RB28	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.163842	0.019672
RB28	KJ744960.1 Aname sp. MYG004 voucher T119998	0.163842	0.019672
RB28	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB29	KJ744577.1 Aname mellosa T103913	0.163842	0.019672
RB29	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB29	KJ744917.1 Aname sp. MYG004 voucher T118822	0.163842	0.019672
RB29	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB29	KJ745184.1:2-658 Aname mellosa voucher T127219	0.163842	0.019672
RB29	KJ745399.1 Aname sp. MYG004 voucher T95403	0.163842	0.019672
RB08	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.163842	0.019672
RB08	KJ744462.1 Aname mellosa voucher T102746	0.163842	0.019672
RB08	KJ744473.1:2-658 Aname mellosa voucher T102833	0.163842	0.019672
RB08	KJ744609.1:1-658 Aname mellosa voucher T105213	0.163842	0.019672
RB08	KJ744649.1 Aname sp. MYG373 T107089	0.163842	0.019672
RB08	KJ744670.1 Aname sp. MYG004 voucher T107973	0.163842	0.019672

Mt Gibson specimen	Reference specimen	p-distance	SE
RB08	KJ745398.1 Aname mellosa T95402	0.163842	0.019672
RB08	KJ745469.1 Aname sp. MYG366 T98768	0.163842	0.019672
RB11	KJ744577.1 Aname mellosa T103913	0.163842	0.019672
RB11	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB11	KJ744917.1 Aname sp. MYG004 voucher T118822	0.163842	0.019672
RB11	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB11	KJ745184.1:2-658 Aname mellosa voucher T127219	0.163842	0.019672
RB11	KJ745399.1 Aname sp. MYG004 voucher T95403	0.163842	0.019672
RB22	KJ744443.1 Aname mellosa voucher T102535	0.163842	0.019672
RB06	KJ744443.1 Aname mellosa voucher T102535	0.163842	0.019672
RB25	KJ744443.1 Aname mellosa voucher T102535	0.163842	0.019672
RB27	KJ745468.1 Aname sp. MYG366 T98766	0.163842	0.019672
RB27	KJ745474.1 Aname sp. MYG366 T98774	0.163842	0.019672
RB27	KJ745477.1 Aname sp. MYG366 T98869	0.163842	0.019672
RB29	KJ745371.1 Aname mellosa T92456	0.163842	0.019672
RB08	KJ745468.1 Aname sp. MYG366 T98766	0.163842	0.019672
RB08	KJ745474.1 Aname sp. MYG366 T98774	0.163842	0.019672
RB08	KJ745477.1 Aname sp. MYG366 T98869	0.163842	0.019672
RB11	KJ745371.1 Aname mellosa T92456	0.163842	0.019672
RB22	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB22	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.166667	0.019808
RB22	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB22	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB06	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB06	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.166667	0.019808
RB06	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB06	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB25	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB25	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.166667	0.019808
RB25	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB25	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB27	KJ745288.1 Aname sp. MYG351 82304	0.166667	0.019808
RB28	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.166667	0.019808
RB28	KJ744474.1:2-658 Aname mellosa voucher T102834	0.166667	0.019808
RB28	KJ745288.1 Aname sp. MYG351 82304	0.166667	0.019808
RB28	KJ745468.1 Aname sp. MYG366 T98766	0.166667	0.019808
RB28	KJ745469.1 Aname sp. MYG366 T98768	0.166667	0.019808
RB28	KJ745474.1 Aname sp. MYG366 T98774	0.166667	0.019808
RB28	KJ745477.1 Aname sp. MYG366 T98869	0.166667	0.019808
RB28	KJ745488.1 Aname ellenae T98894	0.166667	0.019808
RB28	KJ745489.1 Aname ellenae T98895	0.166667	0.019808
RB29	KJ744717.1 Aname sp. MYG001 T110195	0.166667	0.019808
RB29	KJ745288.1 Aname sp. MYG351 82304	0.166667	0.019808
RB29	KJ745469.1 Aname sp. MYG366 T98768	0.166667	0.019808
RB08	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.166667	0.019808
RB08	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.166667	0.019808
RB11	KJ744717.1 Aname sp. MYG001 T110195	0.166667	0.019808
RB11	KJ745288.1 Aname sp. MYG351 82304	0.166667	0.019808
RB11	KJ745469.1 Aname sp. MYG366 T98768	0.166667	0.019808
RB22	KJ744390.1:2-658 Aname mellosa voucher T101154	0.166667	0.019808
RB22	KJ744394.1 Aname mellosa T101158	0.166667	0.019808
RB22	KJ744720.1 Aname sp. MYG001 T110201	0.166667	0.019808
RB22	KJ744909.1 Aname sp. MYG331 T118805	0.166667	0.019808
RB22	KJ744910.1 Aname sp. MYG331 T118811	0.166667	0.019808
RB22	KJ744987.1 Aname mellosa T122215	0.166667	0.019808
RB22	KJ745004.1:2-658 Aname mellosa voucher T122242	0.166667	0.019808
RB22	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB22	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB22	KJ745399.1 Aname sp. MYG004 voucher T95403	0.166667	0.019808
RB06	KJ744390.1:2-658 Aname mellosa voucher T101154	0.166667	0.019808
RB06	KJ744394.1 Aname mellosa T101158	0.166667	0.019808
RB06	KJ744720.1 Aname sp. MYG001 T110201	0.166667	0.019808
RB06	KJ744909.1 Aname sp. MYG331 T118805	0.166667	0.019808
RB06	KJ744910.1 Aname sp. MYG331 T118811	0.166667	0.019808
RB06	KJ744987.1 Aname mellosa T122215	0.166667	0.019808
RB06	KJ745004.1:2-658 Aname mellosa voucher T122242	0.166667	0.019808
RB06	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB06	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB06	KJ745399.1 Aname sp. MYG004 voucher T95403	0.166667	0.019808
RB25	KJ744390.1:2-658 Aname mellosa voucher T101154	0.166667	0.019808
RB25	KJ744394.1 Aname mellosa T101158	0.166667	0.019808
RB25	KJ744720.1 Aname sp. MYG001 T110201	0.166667	0.019808
RB25	KJ744909.1 Aname sp. MYG331 T118805	0.166667	0.019808
RB25	KJ744910.1 Aname sp. MYG331 T118811	0.166667	0.019808
RB25	KJ744987.1 Aname mellosa T122215	0.166667	0.019808
RB25	KJ745004.1:2-658 Aname mellosa voucher T122242	0.166667	0.019808
RB25	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB25	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB25	KJ745399.1 Aname sp. MYG004 voucher T95403	0.166667	0.019808
RB27	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.166667	0.019808
RB27	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.166667	0.019808
RB27	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.166667	0.019808
RB27	KJ744462.1 Aname mellosa voucher T102746	0.166667	0.019808
RB27	KJ744745.1 Aname sp. MYG004 voucher T113584	0.166667	0.019808
RB27	KJ745395.1 Aname mellosa voucher T95399	0.166667	0.019808
RB28	KJ744745.1 Aname sp. MYG004 voucher T113584	0.166667	0.019808

Mt Gibson specimen	Reference specimen	p-distance	SE
RB29	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.166667	0.019808
RB29	KJ744474.1:2-658 Aname mellosa voucher T102834	0.166667	0.019808
RB29	KJ744670.1 Aname sp. MYG004 voucher T107973	0.166667	0.019808
RB29	KJ744718.1 Aname sp. MYG00 T110197	0.166667	0.019808
RB29	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.166667	0.019808
RB29	KJ745198.1:1-658 Aname mainae voucher T42354	0.166667	0.019808
RB29	KJ745468.1 Aname sp. MYG366 T98766	0.166667	0.019808
RB29	KJ745474.1 Aname sp. MYG366 T98774	0.166667	0.019808
RB29	KJ745477.1 Aname sp. MYG366 T98869	0.166667	0.019808
RB08	KJ744443.1 Aname mellosa voucher T102535	0.166667	0.019808
RB08	KJ744447.1 Aname mellosa voucher T102731	0.166667	0.019808
RB08	KJ744917.1 Aname sp. MYG004 voucher T118822	0.166667	0.019808
RB08	KJ745296.1 Aname sp. MYG364 T85262	0.166667	0.019808
RB11	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.166667	0.019808
RB11	KJ744474.1:2-658 Aname mellosa voucher T102834	0.166667	0.019808
RB11	KJ744670.1 Aname sp. MYG004 voucher T107973	0.166667	0.019808
RB11	KJ744718.1 Aname sp. MYG00 T110197	0.166667	0.019808
RB11	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.166667	0.019808
RB11	KJ745198.1:1-658 Aname mainae voucher T42354	0.166667	0.019808
RB11	KJ745468.1 Aname sp. MYG366 T98766	0.166667	0.019808
RB11	KJ745474.1 Aname sp. MYG366 T98774	0.166667	0.019808
RB11	KJ745477.1 Aname sp. MYG366 T98869	0.166667	0.019808
RB22	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB22	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.169492	0.019941
RB22	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.169492	0.019941
RB22	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.169492	0.019941
RB22	KJ744412.1 Aname sp. MYG001 102044	0.169492	0.019941
RB22	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB22	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB22	KJ744670.1 Aname sp. MYG004 voucher T107973	0.169492	0.019941
RB22	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB22	KJ745296.1 Aname sp. MYG364 T85262	0.169492	0.019941
RB22	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB06	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB06	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.169492	0.019941
RB06	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.169492	0.019941
RB06	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.169492	0.019941
RB06	KJ744412.1 Aname sp. MYG001 102044	0.169492	0.019941
RB06	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB06	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB06	KJ744670.1 Aname sp. MYG004 voucher T107973	0.169492	0.019941
RB06	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB06	KJ745296.1 Aname sp. MYG364 T85262	0.169492	0.019941
RB06	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB25	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB25	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.169492	0.019941
RB25	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.169492	0.019941
RB25	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.169492	0.019941
RB25	KJ744412.1 Aname sp. MYG001 102044	0.169492	0.019941
RB25	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB25	KJ744571.1 Aname mellosa T103906	0.169492	0.019941
RB25	KJ744670.1 Aname sp. MYG004 voucher T107973	0.169492	0.019941
RB25	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB25	KJ745296.1 Aname sp. MYG364 T85262	0.169492	0.019941
RB25	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB27	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.169492	0.019941
RB27	KJ744404.1 Aname sp. MYG173 T101214	0.169492	0.019941
RB27	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.169492	0.019941
RB27	KJ744443.1 Aname mellosa voucher T102535	0.169492	0.019941
RB27	KJ744473.1:2-658 Aname mellosa voucher T102833	0.169492	0.019941
RB27	KJ744609.1:1-658 Aname mellosa voucher T105213	0.169492	0.019941
RB27	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.169492	0.019941
RB27	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.169492	0.019941
RB27	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.169492	0.019941
RB27	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB27	KJ745296.1 Aname sp. MYG364 T85262	0.169492	0.019941
RB27	KJ745409.1 Aname sp. MYG004 voucher T96022	0.169492	0.019941
RB28	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.169492	0.019941
RB28	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.169492	0.019941
RB28	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.169492	0.019941
RB28	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.169492	0.019941
RB28	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB28	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.169492	0.019941
RB28	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.169492	0.019941
RB28	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB28	KJ745296.1 Aname sp. MYG364 T85262	0.169492	0.019941
RB28	KJ745314.1:2-658 Aname mellosa voucher T88668	0.169492	0.019941
RB28	KJ745409.1 Aname sp. MYG004 voucher T96022	0.169492	0.019941
RB28	KJ745479.1 Aname ellenae T98883	0.169492	0.019941
RB29	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.169492	0.019941
RB29	KJ744385.1:1-658 Aname mellosa voucher T100078	0.169492	0.019941
RB29	KJ744649.1 Aname sp. MYG373 T107089	0.169492	0.019941
RB29	KJ745239.1 Aname sp. MYG177 T74755	0.169492	0.019941
RB29	KJ745314.1:2-658 Aname mellosa voucher T88668	0.169492	0.019941
RB29	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB29	KJ745396.1 Aname mellosa T95400	0.169492	0.019941

Mt Gibson specimen	Reference specimen	p-distance	SE
RB08	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.169492	0.019941
RB08	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.169492	0.019941
RB08	KJ744960.1 Aname sp. MYG004 voucher T119998	0.169492	0.019941
RB08	KJ745395.1 Aname mellosa voucher T95399	0.169492	0.019941
RB08	KJ745488.1 Aname ellenae T98894	0.169492	0.019941
RB08	KJ745489.1 Aname ellenae T98895	0.169492	0.019941
RB11	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.169492	0.019941
RB11	KJ744385.1:1-658 Aname mellosa voucher T100078	0.169492	0.019941
RB11	KJ744649.1 Aname sp. MYG373 T107089	0.169492	0.019941
RB11	KJ745239.1 Aname sp. MYG177 T74755	0.169492	0.019941
RB11	KJ745314.1:2-658 Aname mellosa voucher T88668	0.169492	0.019941
RB11	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB11	KJ745396.1 Aname mellosa T95400	0.169492	0.019941
RB22	KJ744404.1 Aname sp. MYG173 T101214	0.172316	0.020072
RB22	KJ744577.1 Aname mellosa T103913	0.172316	0.020072
RB22	KJ744648.1 Aname sp. MYG373 T107087	0.172316	0.020072
RB22	KJ745239.1 Aname sp. MYG177 T74755	0.172316	0.020072
RB22	KJ745488.1 Aname ellenae T98894	0.172316	0.020072
RB22	KJ745489.1 Aname ellenae T98895	0.172316	0.020072
RB06	KJ744404.1 Aname sp. MYG173 T101214	0.172316	0.020072
RB06	KJ744577.1 Aname mellosa T103913	0.172316	0.020072
RB06	KJ744648.1 Aname sp. MYG373 T107087	0.172316	0.020072
RB06	KJ745239.1 Aname sp. MYG177 T74755	0.172316	0.020072
RB06	KJ745488.1 Aname ellenae T98894	0.172316	0.020072
RB06	KJ745489.1 Aname ellenae T98895	0.172316	0.020072
RB25	KJ744404.1 Aname sp. MYG173 T101214	0.172316	0.020072
RB25	KJ744577.1 Aname mellosa T103913	0.172316	0.020072
RB25	KJ744648.1 Aname sp. MYG373 T107087	0.172316	0.020072
RB25	KJ745239.1 Aname sp. MYG177 T74755	0.172316	0.020072
RB25	KJ745488.1 Aname ellenae T98894	0.172316	0.020072
RB25	KJ745489.1 Aname ellenae T98895	0.172316	0.020072
RB27	KJ745467.1 Aname sp. MYG366 T98765	0.172316	0.020072
RB28	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.172316	0.020072
RB28	KJ745395.1 Aname mellosa voucher T95399	0.172316	0.020072
RB29	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.172316	0.020072
RB29	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.172316	0.020072
RB29	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.172316	0.020072
RB29	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.172316	0.020072
RB29	KJ744462.1 Aname mellosa voucher T102746	0.172316	0.020072
RB29	KJ745395.1 Aname mellosa voucher T95399	0.172316	0.020072
RB29	KJ745398.1 Aname mellosa T95402	0.172316	0.020072
RB08	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.172316	0.020072
RB08	KJ745288.1 Aname sp. MYG351 82304	0.172316	0.020072
RB08	KJ745467.1 Aname sp. MYG366 T98765	0.172316	0.020072
RB08	KJ745479.1 Aname ellenae T98883	0.172316	0.020072
RB11	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.172316	0.020072
RB11	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.172316	0.020072
RB11	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.172316	0.020072
RB11	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.172316	0.020072
RB11	KJ744462.1 Aname mellosa voucher T102746	0.172316	0.020072
RB11	KJ745395.1 Aname mellosa voucher T95399	0.172316	0.020072
RB11	KJ745398.1 Aname mellosa T95402	0.172316	0.020072
RB22	KJ744409.1 Aname sp. MYG001 T102040	0.172316	0.020072
RB22	KJ744717.1 Aname sp. MYG001 T110195	0.172316	0.020072
RB22	KJ744722.1 Aname sp. MYG001 T110203	0.172316	0.020072
RB22	KJ744724.1 Aname sp. MYG001 T110206	0.172316	0.020072
RB22	KJ745184.1:2-658 Aname mellosa voucher T127219	0.172316	0.020072
RB06	KJ744409.1 Aname sp. MYG001 T102040	0.172316	0.020072
RB06	KJ744717.1 Aname sp. MYG001 T110195	0.172316	0.020072
RB06	KJ744722.1 Aname sp. MYG001 T110203	0.172316	0.020072
RB06	KJ744724.1 Aname sp. MYG001 T110206	0.172316	0.020072
RB06	KJ745184.1:2-658 Aname mellosa voucher T127219	0.172316	0.020072
RB25	KJ744409.1 Aname sp. MYG001 T102040	0.172316	0.020072
RB25	KJ744717.1 Aname sp. MYG001 T110195	0.172316	0.020072
RB25	KJ744722.1 Aname sp. MYG001 T110203	0.172316	0.020072
RB25	KJ744724.1 Aname sp. MYG001 T110206	0.172316	0.020072
RB25	KJ745184.1:2-658 Aname mellosa voucher T127219	0.172316	0.020072
RB27	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.172316	0.020072
RB28	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.172316	0.020072
RB28	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.172316	0.020072
RB28	KJ744462.1 Aname mellosa voucher T102746	0.172316	0.020072
RB28	KJ744609.1:1-658 Aname mellosa voucher T105213	0.172316	0.020072
RB28	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.172316	0.020072
RB29	KJ744609.1:1-658 Aname mellosa voucher T105213	0.172316	0.020072
RB29	KJ744960.1 Aname sp. MYG004 voucher T119998	0.172316	0.020072
RB08	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.172316	0.020072
RB08	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.172316	0.020072
RB08	KJ744745.1 Aname sp. MYG004 voucher T113584	0.172316	0.020072
RB11	KJ744609.1:1-658 Aname mellosa voucher T105213	0.172316	0.020072
RB11	KJ744960.1 Aname sp. MYG004 voucher T119998	0.172316	0.020072
RB22	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB22	KJ744960.1 Aname sp. MYG004 voucher T119998	0.175141	0.020201
RB22	KJ744990.1:240-658 Aname mellosa voucher T122219	0.175141	0.020201
RB22	KJ745198.1:1-658 Aname mainae voucher T42354	0.175141	0.020201
RB22	KJ745288.1 Aname sp. MYG351 82304	0.175141	0.020201
RB22	KJ745468.1 Aname sp. MYG366 T98766	0.175141	0.020201

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	KJ745469.1 Aname sp. MYG366 T98768	0.175141	0.020201
RB22	KJ745474.1 Aname sp. MYG366 T98774	0.175141	0.020201
RB22	KJ745477.1 Aname sp. MYG366 T98869	0.175141	0.020201
RB22	KJ745479.1 Aname ellenae T98883	0.175141	0.020201
RB06	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB06	KJ744960.1 Aname sp. MYG004 voucher T119998	0.175141	0.020201
RB06	KJ744990.1:240-658 Aname mellosa voucher T122219	0.175141	0.020201
RB06	KJ745198.1:1-658 Aname mainae voucher T42354	0.175141	0.020201
RB06	KJ745288.1 Aname sp. MYG351 82304	0.175141	0.020201
RB06	KJ745468.1 Aname sp. MYG366 T98766	0.175141	0.020201
RB06	KJ745469.1 Aname sp. MYG366 T98768	0.175141	0.020201
RB06	KJ745474.1 Aname sp. MYG366 T98774	0.175141	0.020201
RB06	KJ745477.1 Aname sp. MYG366 T98869	0.175141	0.020201
RB06	KJ745479.1 Aname ellenae T98883	0.175141	0.020201
RB25	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB25	KJ744960.1 Aname sp. MYG004 voucher T119998	0.175141	0.020201
RB25	KJ744990.1:240-658 Aname mellosa voucher T122219	0.175141	0.020201
RB25	KJ745198.1:1-658 Aname mainae voucher T42354	0.175141	0.020201
RB25	KJ745288.1 Aname sp. MYG351 82304	0.175141	0.020201
RB25	KJ745468.1 Aname sp. MYG366 T98766	0.175141	0.020201
RB25	KJ745469.1 Aname sp. MYG366 T98768	0.175141	0.020201
RB25	KJ745474.1 Aname sp. MYG366 T98774	0.175141	0.020201
RB25	KJ745477.1 Aname sp. MYG366 T98869	0.175141	0.020201
RB25	KJ745479.1 Aname ellenae T98883	0.175141	0.020201
RB27	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.175141	0.020201
RB27	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB27	KJ744490.1 Aname sp. MYG004 voucher T103174	0.175141	0.020201
RB27	KJ744495.1 Aname sp. MYG004 voucher T103183	0.175141	0.020201
RB27	KJ744524.1 Aname sp. MYG004 voucher T103222	0.175141	0.020201
RB27	KJ745174.1 Aname sp. MYG004 voucher T127202	0.175141	0.020201
RB27	KJ745245.1 Aname sp. MYG177 T76823	0.175141	0.020201
RB27	KJ745256.1 Aname sp. MYG177 voucher T77080	0.175141	0.020201
RB28	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.175141	0.020201
RB28	KJ744404.1 Aname sp. MYG173 T101214	0.175141	0.020201
RB28	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB28	KJ744443.1 Aname mellosa voucher T102535	0.175141	0.020201
RB28	KJ744473.1:2-658 Aname mellosa voucher T102833	0.175141	0.020201
RB28	KJ744490.1 Aname sp. MYG004 voucher T103174	0.175141	0.020201
RB28	KJ744495.1 Aname sp. MYG004 voucher T103183	0.175141	0.020201
RB28	KJ744524.1 Aname sp. MYG004 voucher T103222	0.175141	0.020201
RB28	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.175141	0.020201
RB28	KJ745174.1 Aname sp. MYG004 voucher T127202	0.175141	0.020201
RB28	KJ745245.1 Aname sp. MYG177 T76823	0.175141	0.020201
RB28	KJ745256.1 Aname sp. MYG177 voucher T77080	0.175141	0.020201
RB28	KJ745467.1 Aname sp. MYG366 T98765	0.175141	0.020201
RB29	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB29	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.175141	0.020201
RB29	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB29	KJ744443.1 Aname mellosa voucher T102535	0.175141	0.020201
RB29	KJ744447.1 Aname mellosa voucher T102731	0.175141	0.020201
RB29	KJ744473.1:2-658 Aname mellosa voucher T102833	0.175141	0.020201
RB29	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB29	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB29	KJ744745.1 Aname sp. MYG004 voucher T113584	0.175141	0.020201
RB29	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.175141	0.020201
RB29	KJ745203.1 Aname sp. MYG342 T52181	0.175141	0.020201
RB29	KJ745296.1 Aname sp. MYG364 T85262	0.175141	0.020201
RB29	KJ745467.1 Aname sp. MYG366 T98765	0.175141	0.020201
RB29	KJ745488.1 Aname ellenae T98894	0.175141	0.020201
RB29	KJ745489.1 Aname ellenae T98895	0.175141	0.020201
RB08	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.175141	0.020201
RB08	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.175141	0.020201
RB08	KJ744404.1 Aname sp. MYG173 T101214	0.175141	0.020201
RB08	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.175141	0.020201
RB08	KJ745203.1 Aname sp. MYG342 T52181	0.175141	0.020201
RB08	KJ745409.1 Aname sp. MYG004 voucher T96022	0.175141	0.020201
RB11	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.175141	0.020201
RB11	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.175141	0.020201
RB11	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB11	KJ744443.1 Aname mellosa voucher T102535	0.175141	0.020201
RB11	KJ744447.1 Aname mellosa voucher T102731	0.175141	0.020201
RB11	KJ744473.1:2-658 Aname mellosa voucher T102833	0.175141	0.020201
RB11	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB11	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.175141	0.020201
RB11	KJ744745.1 Aname sp. MYG004 voucher T113584	0.175141	0.020201
RB11	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.175141	0.020201
RB11	KJ745203.1 Aname sp. MYG342 T52181	0.175141	0.020201
RB11	KJ745296.1 Aname sp. MYG364 T85262	0.175141	0.020201
RB11	KJ745467.1 Aname sp. MYG366 T98765	0.175141	0.020201
RB11	KJ745488.1 Aname ellenae T98894	0.175141	0.020201
RB11	KJ745489.1 Aname ellenae T98895	0.175141	0.020201
RB22	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.177966	0.020329
RB22	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.177966	0.020329
RB22	KJ744649.1 Aname sp. MYG373 T107089	0.177966	0.020329
RB22	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB22	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.177966	0.020329

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	KJ744917.1 Aname sp. MYG004 voucher T118822	0.177966	0.020329
RB22	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB06	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.177966	0.020329
RB06	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.177966	0.020329
RB06	KJ744649.1 Aname sp. MYG373 T107089	0.177966	0.020329
RB06	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB06	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.177966	0.020329
RB06	KJ744917.1 Aname sp. MYG004 voucher T118822	0.177966	0.020329
RB06	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB25	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.177966	0.020329
RB25	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.177966	0.020329
RB25	KJ744649.1 Aname sp. MYG373 T107089	0.177966	0.020329
RB25	KJ744718.1 Aname sp. MYG00 T110197	0.177966	0.020329
RB25	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.177966	0.020329
RB25	KJ744917.1 Aname sp. MYG004 voucher T118822	0.177966	0.020329
RB25	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB27	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.177966	0.020329
RB27	KJ744461.1 Aname mellosa voucher T102745	0.177966	0.020329
RB27	KJ744493.1 Aname sp. MYG004 voucher T103179	0.177966	0.020329
RB27	KJ744499.1 Aname sp. MYG339 voucher T103191	0.177966	0.020329
RB27	KJ744526.1 Aname sp. MYG004 voucher T103224	0.177966	0.020329
RB27	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.177966	0.020329
RB27	KJ745046.1 Aname sp. MYG004 voucher T122814	0.177966	0.020329
RB27	KJ745058.1 Aname sp. MYG004 voucher T122832	0.177966	0.020329
RB27	KJ745132.1 Aname sp. MYG004 voucher T126248	0.177966	0.020329
RB27	KJ745156.1 Aname sp. MYG004 voucher T126274	0.177966	0.020329
RB27	KJ745163.1 Aname sp. MYG004 voucher T126285	0.177966	0.020329
RB27	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.177966	0.020329
RB27	KJ745241.1 Aname sp. MYG177 voucher T76819	0.177966	0.020329
RB27	KJ745243.1 Aname sp. MYG177 voucher T76821	0.177966	0.020329
RB27	KJ745244.1 Aname sp. MYG177 T76822	0.177966	0.020329
RB27	KJ745246.1 Aname sp. MYG177 voucher T76824	0.177966	0.020329
RB27	KJ745247.1 Aname sp. MYG177 voucher T76825	0.177966	0.020329
RB27	KJ745248.1 Aname sp. MYG177 voucher T76826	0.177966	0.020329
RB27	KJ745249.1 Aname sp. MYG177 T76827	0.177966	0.020329
RB27	KJ745251.1 Aname sp. MYG177 T76829	0.177966	0.020329
RB27	KJ745257.1 Aname sp. MYG177 T77081	0.177966	0.020329
RB28	KJ744493.1 Aname sp. MYG004 voucher T103179	0.177966	0.020329
RB28	KJ744526.1 Aname sp. MYG004 voucher T103224	0.177966	0.020329
RB28	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.177966	0.020329
RB28	KJ745046.1 Aname sp. MYG004 voucher T122814	0.177966	0.020329
RB28	KJ745058.1 Aname sp. MYG004 voucher T122832	0.177966	0.020329
RB28	KJ745132.1 Aname sp. MYG004 voucher T126248	0.177966	0.020329
RB28	KJ745156.1 Aname sp. MYG004 voucher T126274	0.177966	0.020329
RB28	KJ745163.1 Aname sp. MYG004 voucher T126285	0.177966	0.020329
RB28	KJ745241.1 Aname sp. MYG177 voucher T76819	0.177966	0.020329
RB28	KJ745243.1 Aname sp. MYG177 voucher T76821	0.177966	0.020329
RB28	KJ745244.1 Aname sp. MYG177 T76822	0.177966	0.020329
RB28	KJ745246.1 Aname sp. MYG177 voucher T76824	0.177966	0.020329
RB28	KJ745247.1 Aname sp. MYG177 voucher T76825	0.177966	0.020329
RB28	KJ745248.1 Aname sp. MYG177 voucher T76826	0.177966	0.020329
RB28	KJ745249.1 Aname sp. MYG177 T76827	0.177966	0.020329
RB28	KJ745251.1 Aname sp. MYG177 T76829	0.177966	0.020329
RB28	KJ745257.1 Aname sp. MYG177 T77081	0.177966	0.020329
RB29	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.177966	0.020329
RB29	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.177966	0.020329
RB29	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.177966	0.020329
RB29	KJ745479.1 Aname ellenae T98883	0.177966	0.020329
RB08	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.177966	0.020329
RB08	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.177966	0.020329
RB08	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.177966	0.020329
RB08	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.177966	0.020329
RB08	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.177966	0.020329
RB08	KJ745245.1 Aname sp. MYG177 T76823	0.177966	0.020329
RB08	KJ745256.1 Aname sp. MYG177 voucher T77080	0.177966	0.020329
RB11	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.177966	0.020329
RB11	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.177966	0.020329
RB11	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.177966	0.020329
RB11	KJ745479.1 Aname ellenae T98883	0.177966	0.020329
RB22	KJ744461.1 Aname mellosa voucher T102745	0.177966	0.020329
RB22	KJ744745.1 Aname sp. MYG004 voucher T113584	0.177966	0.020329
RB06	KJ744461.1 Aname mellosa voucher T102745	0.177966	0.020329
RB06	KJ744745.1 Aname sp. MYG004 voucher T113584	0.177966	0.020329
RB25	KJ744461.1 Aname mellosa voucher T102745	0.177966	0.020329
RB25	KJ744745.1 Aname sp. MYG004 voucher T113584	0.177966	0.020329
RB27	KJ744436.1 Aname sp. MYG004 voucher T102161	0.177966	0.020329
RB27	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.177966	0.020329
RB28	KJ744436.1 Aname sp. MYG004 voucher T102161	0.177966	0.020329
RB28	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.177966	0.020329
RB29	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.177966	0.020329
RB29	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.177966	0.020329
RB29	KJ745409.1 Aname sp. MYG004 voucher T96022	0.177966	0.020329
RB11	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.177966	0.020329
RB11	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.177966	0.020329
RB11	KJ745409.1 Aname sp. MYG004 voucher T96022	0.177966	0.020329
RB22	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.180791	0.020454

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.180791	0.020454
RB22	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.180791	0.020454
RB22	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.180791	0.020454
RB22	KJ744445.1 Aname mellosa voucher T102729	0.180791	0.020454
RB22	KJ744499.1 Aname sp. MYG339 voucher T103191	0.180791	0.020454
RB22	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.180791	0.020454
RB22	KJ745395.1 Aname mellosa voucher T95399	0.180791	0.020454
RB06	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.180791	0.020454
RB06	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.180791	0.020454
RB06	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.180791	0.020454
RB06	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.180791	0.020454
RB06	KJ744445.1 Aname mellosa voucher T102729	0.180791	0.020454
RB06	KJ744499.1 Aname sp. MYG339 voucher T103191	0.180791	0.020454
RB06	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.180791	0.020454
RB06	KJ745395.1 Aname mellosa voucher T95399	0.180791	0.020454
RB25	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.180791	0.020454
RB25	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.180791	0.020454
RB25	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.180791	0.020454
RB25	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.180791	0.020454
RB25	KJ744445.1 Aname mellosa voucher T102729	0.180791	0.020454
RB25	KJ744499.1 Aname sp. MYG339 voucher T103191	0.180791	0.020454
RB25	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.180791	0.020454
RB25	KJ745395.1 Aname mellosa voucher T95399	0.180791	0.020454
RB27	KJ744445.1 Aname mellosa voucher T102729	0.180791	0.020454
RB27	KJ744612.1 Aname sp. MYG339 voucher T105852	0.180791	0.020454
RB27	KJ744615.1 Aname sp. MYG339 voucher T105858	0.180791	0.020454
RB27	KJ744616.1 Aname sp. MYG339 voucher T105859	0.180791	0.020454
RB27	KJ744635.1 Aname sp. MYG339 voucher T105893	0.180791	0.020454
RB27	KJ744643.1 Aname sp. MYG339 voucher T105906	0.180791	0.020454
RB27	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.180791	0.020454
RB27	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.180791	0.020454
RB27	KJ744733.1 Aname sp. MYG177 T112359	0.180791	0.020454
RB27	KJ744786.1 Aname sp. MYG004 voucher T113645	0.180791	0.020454
RB27	KJ744860.1 Aname sp. MYG004 voucher T116780	0.180791	0.020454
RB27	KJ745097.1 Aname sp. MYG004 voucher T122875	0.180791	0.020454
RB27	KJ745242.1 Aname sp. MYG177 T76820	0.180791	0.020454
RB27	KJ745408.1 Aname sp. MYG004 voucher T96019	0.180791	0.020454
RB28	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.180791	0.020454
RB28	KJ744733.1 Aname sp. MYG177 T112359	0.180791	0.020454
RB28	KJ744786.1 Aname sp. MYG004 voucher T113645	0.180791	0.020454
RB28	KJ744860.1 Aname sp. MYG004 voucher T116780	0.180791	0.020454
RB28	KJ745016.1 Aname sp. MYG329 voucher T122273	0.180791	0.020454
RB28	KJ745097.1 Aname sp. MYG004 voucher T122875	0.180791	0.020454
RB28	KJ745242.1 Aname sp. MYG177 T76820	0.180791	0.020454
RB28	KJ745408.1 Aname sp. MYG004 voucher T96019	0.180791	0.020454
RB29	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.180791	0.020454
RB29	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.180791	0.020454
RB29	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.180791	0.020454
RB29	KJ745245.1 Aname sp. MYG177 T76823	0.180791	0.020454
RB08	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.180791	0.020454
RB08	KJ744461.1 Aname mellosa voucher T102745	0.180791	0.020454
RB08	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.180791	0.020454
RB08	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.180791	0.020454
RB08	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.180791	0.020454
RB08	KJ745241.1 Aname sp. MYG177 voucher T76819	0.180791	0.020454
RB08	KJ745243.1 Aname sp. MYG177 voucher T76821	0.180791	0.020454
RB08	KJ745244.1 Aname sp. MYG177 T76822	0.180791	0.020454
RB08	KJ745246.1 Aname sp. MYG177 voucher T76824	0.180791	0.020454
RB08	KJ745247.1 Aname sp. MYG177 voucher T76825	0.180791	0.020454
RB08	KJ745248.1 Aname sp. MYG177 voucher T76826	0.180791	0.020454
RB08	KJ745249.1 Aname sp. MYG177 T76827	0.180791	0.020454
RB08	KJ745251.1 Aname sp. MYG177 T76829	0.180791	0.020454
RB08	KJ745257.1 Aname sp. MYG177 T77081	0.180791	0.020454
RB11	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.180791	0.020454
RB11	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.180791	0.020454
RB11	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.180791	0.020454
RB11	KJ745245.1 Aname sp. MYG177 T76823	0.180791	0.020454
RB22	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB22	KJ744612.1 Aname sp. MYG339 voucher T105852	0.183616	0.020578
RB22	KJ744615.1 Aname sp. MYG339 voucher T105858	0.183616	0.020578
RB22	KJ744616.1 Aname sp. MYG339 voucher T105859	0.183616	0.020578
RB22	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB22	KJ744643.1 Aname sp. MYG339 voucher T105906	0.183616	0.020578
RB22	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB22	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB22	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB22	KJ745409.1 Aname sp. MYG004 voucher T96022	0.183616	0.020578
RB22	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB22	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.183616	0.020578
RB22	KJ745467.1 Aname sp. MYG366 T98765	0.183616	0.020578
RB06	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB06	KJ744612.1 Aname sp. MYG339 voucher T105852	0.183616	0.020578
RB06	KJ744615.1 Aname sp. MYG339 voucher T105858	0.183616	0.020578
RB06	KJ744616.1 Aname sp. MYG339 voucher T105859	0.183616	0.020578
RB06	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB06	KJ744643.1 Aname sp. MYG339 voucher T105906	0.183616	0.020578

Mt Gibson specimen	Reference specimen	p-distance	SE
RB06	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB06	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB06	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB06	KJ745409.1 Aname sp. MYG004 voucher T96022	0.183616	0.020578
RB06	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB06	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.183616	0.020578
RB06	KJ745467.1 Aname sp. MYG366 T98765	0.183616	0.020578
RB25	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB25	KJ744612.1 Aname sp. MYG339 voucher T105852	0.183616	0.020578
RB25	KJ744615.1 Aname sp. MYG339 voucher T105858	0.183616	0.020578
RB25	KJ744616.1 Aname sp. MYG339 voucher T105859	0.183616	0.020578
RB25	KJ744635.1 Aname sp. MYG339 voucher T105893	0.183616	0.020578
RB25	KJ744643.1 Aname sp. MYG339 voucher T105906	0.183616	0.020578
RB25	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB25	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB25	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB25	KJ745409.1 Aname sp. MYG004 voucher T96022	0.183616	0.020578
RB25	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB25	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.183616	0.020578
RB25	KJ745467.1 Aname sp. MYG366 T98765	0.183616	0.020578
RB27	KJ744618.1 Aname sp. MYG339 voucher T105862	0.183616	0.020578
RB27	KJ744625.1 Aname sp. MYG339 voucher T105873	0.183616	0.020578
RB27	KJ744637.1 Aname sp. MYG339 voucher T105899	0.183616	0.020578
RB27	KJ744638.1 Aname sp. MYG339 voucher T105900	0.183616	0.020578
RB27	KJ744854.1 Aname sp. MYG004 voucher T116771	0.183616	0.020578
RB27	KJ744887.1 Aname sp. MYG004 voucher T116842	0.183616	0.020578
RB27	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.183616	0.020578
RB27	KJ745145.1 Aname sp. MYG004 voucher T126261	0.183616	0.020578
RB27	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB28	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.183616	0.020578
RB28	KJ744461.1 Aname mellosa voucher T102745	0.183616	0.020578
RB28	KJ744499.1 Aname sp. MYG339 voucher T103191	0.183616	0.020578
RB28	KJ744854.1 Aname sp. MYG004 voucher T116771	0.183616	0.020578
RB28	KJ744887.1 Aname sp. MYG004 voucher T116842	0.183616	0.020578
RB28	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.183616	0.020578
RB28	KJ745145.1 Aname sp. MYG004 voucher T126261	0.183616	0.020578
RB28	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.183616	0.020578
RB28	KJ745429.1 Aname sp. MYG030 voucher T96495	0.183616	0.020578
RB29	KJ744490.1 Aname sp. MYG004 voucher T103174	0.183616	0.020578
RB29	KJ744495.1 Aname sp. MYG004 voucher T103183	0.183616	0.020578
RB29	KJ744524.1 Aname sp. MYG004 voucher T103222	0.183616	0.020578
RB29	KJ745174.1 Aname sp. MYG004 voucher T127202	0.183616	0.020578
RB29	KJ745244.1 Aname sp. MYG177 T76822	0.183616	0.020578
RB29	KJ745249.1 Aname sp. MYG177 T76827	0.183616	0.020578
RB29	KJ745251.1 Aname sp. MYG177 T76829	0.183616	0.020578
RB29	KJ745257.1 Aname sp. MYG177 T77081	0.183616	0.020578
RB08	KJ744445.1 Aname mellosa voucher T102729	0.183616	0.020578
RB08	KJ744499.1 Aname sp. MYG339 voucher T103191	0.183616	0.020578
RB08	KJ744733.1 Aname sp. MYG177 T112359	0.183616	0.020578
RB08	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.183616	0.020578
RB08	KJ745242.1 Aname sp. MYG177 T76820	0.183616	0.020578
RB08	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB11	KJ744490.1 Aname sp. MYG004 voucher T103174	0.183616	0.020578
RB11	KJ744495.1 Aname sp. MYG004 voucher T103183	0.183616	0.020578
RB11	KJ744524.1 Aname sp. MYG004 voucher T103222	0.183616	0.020578
RB11	KJ745174.1 Aname sp. MYG004 voucher T127202	0.183616	0.020578
RB11	KJ745244.1 Aname sp. MYG177 T76822	0.183616	0.020578
RB11	KJ745249.1 Aname sp. MYG177 T76827	0.183616	0.020578
RB11	KJ745251.1 Aname sp. MYG177 T76829	0.183616	0.020578
RB11	KJ745257.1 Aname sp. MYG177 T77081	0.183616	0.020578
RB22	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB22	KJ744618.1 Aname sp. MYG339 voucher T105862	0.186441	0.020700
RB22	KJ744625.1 Aname sp. MYG339 voucher T105873	0.186441	0.020700
RB22	KJ744637.1 Aname sp. MYG339 voucher T105899	0.186441	0.020700
RB22	KJ744638.1 Aname sp. MYG339 voucher T105900	0.186441	0.020700
RB22	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB22	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB22	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.186441	0.020700
RB22	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB06	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB06	KJ744618.1 Aname sp. MYG339 voucher T105862	0.186441	0.020700
RB06	KJ744625.1 Aname sp. MYG339 voucher T105873	0.186441	0.020700
RB06	KJ744637.1 Aname sp. MYG339 voucher T105899	0.186441	0.020700
RB06	KJ744638.1 Aname sp. MYG339 voucher T105900	0.186441	0.020700
RB06	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB06	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB06	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.186441	0.020700
RB06	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB25	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB25	KJ744618.1 Aname sp. MYG339 voucher T105862	0.186441	0.020700
RB25	KJ744625.1 Aname sp. MYG339 voucher T105873	0.186441	0.020700
RB25	KJ744637.1 Aname sp. MYG339 voucher T105899	0.186441	0.020700
RB25	KJ744638.1 Aname sp. MYG339 voucher T105900	0.186441	0.020700
RB25	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB25	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB25	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.186441	0.020700

Mt Gibson specimen	Reference specimen	p-distance	SE
RB25	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB27	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.186441	0.020700
RB27	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB27	KJ745016.1 Aname sp. MYG329 voucher T122273	0.186441	0.020700
RB27	KJ745048.1 Aname sp. MYG004 voucher T122820	0.186441	0.020700
RB28	KJ744445.1 Aname mellosa voucher T102729	0.186441	0.020700
RB28	KJ744612.1 Aname sp. MYG339 voucher T105852	0.186441	0.020700
RB28	KJ744615.1 Aname sp. MYG339 voucher T105858	0.186441	0.020700
RB28	KJ744616.1 Aname sp. MYG339 voucher T105859	0.186441	0.020700
RB28	KJ744635.1 Aname sp. MYG339 voucher T105893	0.186441	0.020700
RB28	KJ744643.1 Aname sp. MYG339 voucher T105906	0.186441	0.020700
RB28	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB28	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB28	KJ744876.1 Aname sp. MYG004 voucher T116819	0.186441	0.020700
RB28	KJ745048.1 Aname sp. MYG004 voucher T122820	0.186441	0.020700
RB29	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.186441	0.020700
RB29	KJ744404.1 Aname sp. MYG173 T101214	0.186441	0.020700
RB29	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB29	KJ744493.1 Aname sp. MYG004 voucher T103179	0.186441	0.020700
RB29	KJ744526.1 Aname sp. MYG004 voucher T103224	0.186441	0.020700
RB29	KJ744733.1 Aname sp. MYG177 T112359	0.186441	0.020700
RB29	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.186441	0.020700
RB29	KJ745046.1 Aname sp. MYG004 voucher T122814	0.186441	0.020700
RB29	KJ745058.1 Aname sp. MYG004 voucher T122832	0.186441	0.020700
RB29	KJ745132.1 Aname sp. MYG004 voucher T126248	0.186441	0.020700
RB29	KJ745156.1 Aname sp. MYG004 voucher T126274	0.186441	0.020700
RB29	KJ745163.1 Aname sp. MYG004 voucher T126285	0.186441	0.020700
RB29	KJ745256.1 Aname sp. MYG177 voucher T77080	0.186441	0.020700
RB29	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.186441	0.020700
RB08	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB08	KJ744490.1 Aname sp. MYG004 voucher T103174	0.186441	0.020700
RB08	KJ744495.1 Aname sp. MYG004 voucher T103183	0.186441	0.020700
RB08	KJ744524.1 Aname sp. MYG004 voucher T103222	0.186441	0.020700
RB08	KJ744612.1 Aname sp. MYG339 voucher T105852	0.186441	0.020700
RB08	KJ744615.1 Aname sp. MYG339 voucher T105858	0.186441	0.020700
RB08	KJ744616.1 Aname sp. MYG339 voucher T105859	0.186441	0.020700
RB08	KJ744635.1 Aname sp. MYG339 voucher T105893	0.186441	0.020700
RB08	KJ744643.1 Aname sp. MYG339 voucher T105906	0.186441	0.020700
RB08	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.186441	0.020700
RB08	KJ745097.1 Aname sp. MYG004 voucher T122875	0.186441	0.020700
RB08	KJ745174.1 Aname sp. MYG004 voucher T127202	0.186441	0.020700
RB08	KJ745429.1 Aname sp. MYG030 voucher T96495	0.186441	0.020700
RB11	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.186441	0.020700
RB11	KJ744404.1 Aname sp. MYG173 T101214	0.186441	0.020700
RB11	KJ744436.1 Aname sp. MYG004 voucher T102161	0.186441	0.020700
RB11	KJ744493.1 Aname sp. MYG004 voucher T103179	0.186441	0.020700
RB11	KJ744526.1 Aname sp. MYG004 voucher T103224	0.186441	0.020700
RB11	KJ744733.1 Aname sp. MYG177 T112359	0.186441	0.020700
RB11	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.186441	0.020700
RB11	KJ745046.1 Aname sp. MYG004 voucher T122814	0.186441	0.020700
RB11	KJ745058.1 Aname sp. MYG004 voucher T122832	0.186441	0.020700
RB11	KJ745132.1 Aname sp. MYG004 voucher T126248	0.186441	0.020700
RB11	KJ745156.1 Aname sp. MYG004 voucher T126274	0.186441	0.020700
RB11	KJ745163.1 Aname sp. MYG004 voucher T126285	0.186441	0.020700
RB11	KJ745256.1 Aname sp. MYG177 voucher T77080	0.186441	0.020700
RB11	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.186441	0.020700
RB28	KJ744618.1 Aname sp. MYG339 voucher T105862	0.189266	0.020820
RB28	KJ744625.1 Aname sp. MYG339 voucher T105873	0.189266	0.020820
RB28	KJ744637.1 Aname sp. MYG339 voucher T105899	0.189266	0.020820
RB28	KJ744638.1 Aname sp. MYG339 voucher T105900	0.189266	0.020820
RB29	KJ744461.1 Aname mellosa voucher T102745	0.189266	0.020820
RB29	KJ744786.1 Aname sp. MYG004 voucher T113645	0.189266	0.020820
RB29	KJ744860.1 Aname sp. MYG004 voucher T116780	0.189266	0.020820
RB29	KJ745048.1 Aname sp. MYG004 voucher T122820	0.189266	0.020820
RB29	KJ745097.1 Aname sp. MYG004 voucher T122875	0.189266	0.020820
RB29	KJ745408.1 Aname sp. MYG004 voucher T96019	0.189266	0.020820
RB08	KJ744493.1 Aname sp. MYG004 voucher T103179	0.189266	0.020820
RB08	KJ744526.1 Aname sp. MYG004 voucher T103224	0.189266	0.020820
RB08	KJ744618.1 Aname sp. MYG339 voucher T105862	0.189266	0.020820
RB08	KJ744625.1 Aname sp. MYG339 voucher T105873	0.189266	0.020820
RB08	KJ744637.1 Aname sp. MYG339 voucher T105899	0.189266	0.020820
RB08	KJ744638.1 Aname sp. MYG339 voucher T105900	0.189266	0.020820
RB08	KJ745046.1 Aname sp. MYG004 voucher T122814	0.189266	0.020820
RB08	KJ745058.1 Aname sp. MYG004 voucher T122832	0.189266	0.020820
RB08	KJ745132.1 Aname sp. MYG004 voucher T126248	0.189266	0.020820
RB08	KJ745145.1 Aname sp. MYG004 voucher T126261	0.189266	0.020820
RB08	KJ745156.1 Aname sp. MYG004 voucher T126274	0.189266	0.020820
RB08	KJ745163.1 Aname sp. MYG004 voucher T126285	0.189266	0.020820
RB11	KJ744461.1 Aname mellosa voucher T102745	0.189266	0.020820
RB11	KJ744786.1 Aname sp. MYG004 voucher T113645	0.189266	0.020820
RB11	KJ744860.1 Aname sp. MYG004 voucher T116780	0.189266	0.020820
RB11	KJ745048.1 Aname sp. MYG004 voucher T122820	0.189266	0.020820
RB11	KJ745097.1 Aname sp. MYG004 voucher T122875	0.189266	0.020820
RB11	KJ745408.1 Aname sp. MYG004 voucher T96019	0.189266	0.020820
RB22	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.189266	0.020820
RB22	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.189266	0.020820

Mt Gibson specimen	Reference specimen	p-distance	SE
RB22	KJ745046.1 Aname sp. MYG004 voucher T122814	0.189266	0.020820
RB22	KJ745058.1 Aname sp. MYG004 voucher T122832	0.189266	0.020820
RB22	KJ745132.1 Aname sp. MYG004 voucher T126248	0.189266	0.020820
RB22	KJ745156.1 Aname sp. MYG004 voucher T126274	0.189266	0.020820
RB22	KJ745163.1 Aname sp. MYG004 voucher T126285	0.189266	0.020820
RB22	KJ745245.1 Aname sp. MYG177 T76823	0.189266	0.020820
RB06	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.189266	0.020820
RB06	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.189266	0.020820
RB06	KJ745046.1 Aname sp. MYG004 voucher T122814	0.189266	0.020820
RB06	KJ745058.1 Aname sp. MYG004 voucher T122832	0.189266	0.020820
RB06	KJ745132.1 Aname sp. MYG004 voucher T126248	0.189266	0.020820
RB06	KJ745156.1 Aname sp. MYG004 voucher T126274	0.189266	0.020820
RB06	KJ745163.1 Aname sp. MYG004 voucher T126285	0.189266	0.020820
RB06	KJ745245.1 Aname sp. MYG177 T76823	0.189266	0.020820
RB25	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.189266	0.020820
RB25	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.189266	0.020820
RB25	KJ745046.1 Aname sp. MYG004 voucher T122814	0.189266	0.020820
RB25	KJ745058.1 Aname sp. MYG004 voucher T122832	0.189266	0.020820
RB25	KJ745132.1 Aname sp. MYG004 voucher T126248	0.189266	0.020820
RB25	KJ745156.1 Aname sp. MYG004 voucher T126274	0.189266	0.020820
RB25	KJ745163.1 Aname sp. MYG004 voucher T126285	0.189266	0.020820
RB25	KJ745245.1 Aname sp. MYG177 T76823	0.189266	0.020820
RB27	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB27	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.189266	0.020820
RB29	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.189266	0.020820
RB29	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB29	KJ745241.1 Aname sp. MYG177 voucher T76819	0.189266	0.020820
RB29	KJ745243.1 Aname sp. MYG177 voucher T76821	0.189266	0.020820
RB29	KJ745246.1 Aname sp. MYG177 voucher T76824	0.189266	0.020820
RB29	KJ745247.1 Aname sp. MYG177 voucher T76825	0.189266	0.020820
RB29	KJ745248.1 Aname sp. MYG177 voucher T76826	0.189266	0.020820
RB29	KJ745429.1 Aname sp. MYG030 voucher T96495	0.189266	0.020820
RB08	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.189266	0.020820
RB08	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.189266	0.020820
RB08	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.189266	0.020820
RB08	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.189266	0.020820
RB11	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.189266	0.020820
RB11	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB11	KJ745241.1 Aname sp. MYG177 voucher T76819	0.189266	0.020820
RB11	KJ745243.1 Aname sp. MYG177 voucher T76821	0.189266	0.020820
RB11	KJ745246.1 Aname sp. MYG177 voucher T76824	0.189266	0.020820
RB11	KJ745247.1 Aname sp. MYG177 voucher T76825	0.189266	0.020820
RB11	KJ745248.1 Aname sp. MYG177 voucher T76826	0.189266	0.020820
RB11	KJ745429.1 Aname sp. MYG030 voucher T96495	0.189266	0.020820
RB22	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.192090	0.020938
RB22	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB22	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB22	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB22	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.192090	0.020938
RB22	KJ744786.1 Aname sp. MYG004 voucher T113645	0.192090	0.020938
RB22	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB22	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB22	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB22	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938
RB22	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB22	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB06	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.192090	0.020938
RB06	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB06	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB06	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB06	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.192090	0.020938
RB06	KJ744786.1 Aname sp. MYG004 voucher T113645	0.192090	0.020938
RB06	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB06	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB06	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB06	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938
RB06	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB06	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB25	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.192090	0.020938
RB25	KJ744490.1 Aname sp. MYG004 voucher T103174	0.192090	0.020938
RB25	KJ744495.1 Aname sp. MYG004 voucher T103183	0.192090	0.020938
RB25	KJ744524.1 Aname sp. MYG004 voucher T103222	0.192090	0.020938
RB25	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.192090	0.020938
RB25	KJ744786.1 Aname sp. MYG004 voucher T113645	0.192090	0.020938
RB25	KJ745097.1 Aname sp. MYG004 voucher T122875	0.192090	0.020938
RB25	KJ745174.1 Aname sp. MYG004 voucher T127202	0.192090	0.020938
RB25	KJ745244.1 Aname sp. MYG177 T76822	0.192090	0.020938
RB25	KJ745249.1 Aname sp. MYG177 T76827	0.192090	0.020938
RB25	KJ745251.1 Aname sp. MYG177 T76829	0.192090	0.020938
RB25	KJ745257.1 Aname sp. MYG177 T77081	0.192090	0.020938
RB27	KJ744487.1 Aname sp. MYG365 voucher T102933	0.192090	0.020938
RB27	KJ745301.1 Aname sp. MYG365 T88596	0.192090	0.020938
RB27	KJ745302.1 Aname sp. MYG365 T88597	0.192090	0.020938
RB27	KJ745306.1 Aname sp. MYG365 T88603	0.192090	0.020938
RB28	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.192090	0.020938
RB29	KJ744445.1 Aname mellosa voucher T102729	0.192090	0.020938

Mt Gibson specimen	Reference specimen	p-distance	SE
RB29	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.192090	0.020938
RB29	KJ744854.1 Aname sp. MYG004 voucher T116771	0.192090	0.020938
RB29	KJ744887.1 Aname sp. MYG004 voucher T116842	0.192090	0.020938
RB29	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.192090	0.020938
RB29	KJ745145.1 Aname sp. MYG004 voucher T126261	0.192090	0.020938
RB29	KJ745242.1 Aname sp. MYG177 T76820	0.192090	0.020938
RB08	KJ744610.1 Aname sp. MYG371 T105216	0.192090	0.020938
RB08	KJ744786.1 Aname sp. MYG004 voucher T113645	0.192090	0.020938
RB08	KJ744860.1 Aname sp. MYG004 voucher T116780	0.192090	0.020938
RB08	KJ744876.1 Aname sp. MYG004 voucher T116819	0.192090	0.020938
RB08	KJ745016.1 Aname sp. MYG329 voucher T122273	0.192090	0.020938
RB11	KJ744445.1 Aname mellosa voucher T102729	0.192090	0.020938
RB11	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.192090	0.020938
RB11	KJ744854.1 Aname sp. MYG004 voucher T116771	0.192090	0.020938
RB11	KJ744887.1 Aname sp. MYG004 voucher T116842	0.192090	0.020938
RB11	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.192090	0.020938
RB11	KJ745145.1 Aname sp. MYG004 voucher T126261	0.192090	0.020938
RB11	KJ745242.1 Aname sp. MYG177 T76820	0.192090	0.020938
RB22	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB06	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB25	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB27	KJ745305.1 Aname sp. MYG365 voucher T88602	0.194915	0.021054
RB29	KJ744499.1 Aname sp. MYG339 voucher T103191	0.194915	0.021054
RB29	KJ744876.1 Aname sp. MYG004 voucher T116819	0.194915	0.021054
RB08	KJ744854.1 Aname sp. MYG004 voucher T116771	0.194915	0.021054
RB08	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB11	KJ744499.1 Aname sp. MYG339 voucher T103191	0.194915	0.021054
RB11	KJ744876.1 Aname sp. MYG004 voucher T116819	0.194915	0.021054
RB22	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB22	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB22	KJ744733.1 Aname sp. MYG177 T112359	0.194915	0.021054
RB22	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB22	KJ745016.1 Aname sp. MYG329 voucher T122273	0.194915	0.021054
RB22	KJ745145.1 Aname sp. MYG004 voucher T126261	0.194915	0.021054
RB22	KJ745256.1 Aname sp. MYG177 voucher T77080	0.194915	0.021054
RB06	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB06	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB06	KJ744733.1 Aname sp. MYG177 T112359	0.194915	0.021054
RB06	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB06	KJ745016.1 Aname sp. MYG329 voucher T122273	0.194915	0.021054
RB06	KJ745145.1 Aname sp. MYG004 voucher T126261	0.194915	0.021054
RB06	KJ745256.1 Aname sp. MYG177 voucher T77080	0.194915	0.021054
RB25	KJ744493.1 Aname sp. MYG004 voucher T103179	0.194915	0.021054
RB25	KJ744526.1 Aname sp. MYG004 voucher T103224	0.194915	0.021054
RB25	KJ744733.1 Aname sp. MYG177 T112359	0.194915	0.021054
RB25	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB25	KJ745016.1 Aname sp. MYG329 voucher T122273	0.194915	0.021054
RB25	KJ745145.1 Aname sp. MYG004 voucher T126261	0.194915	0.021054
RB25	KJ745256.1 Aname sp. MYG177 voucher T77080	0.194915	0.021054
RB28	KJ744610.1 Aname sp. MYG371 T105216	0.194915	0.021054
RB28	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.194915	0.021054
RB29	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.194915	0.021054
RB29	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB11	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.194915	0.021054
RB11	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.194915	0.021054
RB22	KJ744610.1 Aname sp. MYG371 T105216	0.197740	0.021169
RB22	KJ744860.1 Aname sp. MYG004 voucher T116780	0.197740	0.021169
RB22	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB22	KJ745048.1 Aname sp. MYG004 voucher T122820	0.197740	0.021169
RB22	KJ745241.1 Aname sp. MYG177 voucher T76819	0.197740	0.021169
RB22	KJ745243.1 Aname sp. MYG177 voucher T76821	0.197740	0.021169
RB22	KJ745246.1 Aname sp. MYG177 voucher T76824	0.197740	0.021169
RB22	KJ745247.1 Aname sp. MYG177 voucher T76825	0.197740	0.021169
RB22	KJ745248.1 Aname sp. MYG177 voucher T76826	0.197740	0.021169
RB06	KJ744610.1 Aname sp. MYG371 T105216	0.197740	0.021169
RB06	KJ744860.1 Aname sp. MYG004 voucher T116780	0.197740	0.021169
RB06	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB06	KJ745048.1 Aname sp. MYG004 voucher T122820	0.197740	0.021169
RB06	KJ745241.1 Aname sp. MYG177 voucher T76819	0.197740	0.021169
RB06	KJ745243.1 Aname sp. MYG177 voucher T76821	0.197740	0.021169
RB06	KJ745246.1 Aname sp. MYG177 voucher T76824	0.197740	0.021169
RB06	KJ745247.1 Aname sp. MYG177 voucher T76825	0.197740	0.021169
RB06	KJ745248.1 Aname sp. MYG177 voucher T76826	0.197740	0.021169
RB25	KJ744610.1 Aname sp. MYG371 T105216	0.197740	0.021169
RB25	KJ744860.1 Aname sp. MYG004 voucher T116780	0.197740	0.021169
RB25	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB25	KJ745048.1 Aname sp. MYG004 voucher T122820	0.197740	0.021169
RB25	KJ745241.1 Aname sp. MYG177 voucher T76819	0.197740	0.021169
RB25	KJ745243.1 Aname sp. MYG177 voucher T76821	0.197740	0.021169
RB25	KJ745246.1 Aname sp. MYG177 voucher T76824	0.197740	0.021169
RB25	KJ745247.1 Aname sp. MYG177 voucher T76825	0.197740	0.021169
RB25	KJ745248.1 Aname sp. MYG177 voucher T76826	0.197740	0.021169
RB27	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169
RB27	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.197740	0.021169
RB28	KJ744487.1 Aname sp. MYG365 voucher T102933	0.197740	0.021169
RB28	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169

Mt Gibson specimen	Reference specimen	p-distance	SE
RB28	KJ745301.1 Aname sp. MYG365 T88596	0.197740	0.021169
RB28	KJ745302.1 Aname sp. MYG365 T88597	0.197740	0.021169
RB28	KJ745306.1 Aname sp. MYG365 T88603	0.197740	0.021169
RB29	KJ744612.1 Aname sp. MYG339 voucher T105852	0.197740	0.021169
RB29	KJ744615.1 Aname sp. MYG339 voucher T105858	0.197740	0.021169
RB29	KJ744616.1 Aname sp. MYG339 voucher T105859	0.197740	0.021169
RB29	KJ744635.1 Aname sp. MYG339 voucher T105893	0.197740	0.021169
RB29	KJ744643.1 Aname sp. MYG339 voucher T105906	0.197740	0.021169
RB08	KJ744487.1 Aname sp. MYG365 voucher T102933	0.197740	0.021169
RB08	KJ745048.1 Aname sp. MYG004 voucher T122820	0.197740	0.021169
RB08	KJ745301.1 Aname sp. MYG365 T88596	0.197740	0.021169
RB08	KJ745302.1 Aname sp. MYG365 T88597	0.197740	0.021169
RB08	KJ745306.1 Aname sp. MYG365 T88603	0.197740	0.021169
RB11	KJ744612.1 Aname sp. MYG339 voucher T105852	0.197740	0.021169
RB11	KJ744615.1 Aname sp. MYG339 voucher T105858	0.197740	0.021169
RB11	KJ744616.1 Aname sp. MYG339 voucher T105859	0.197740	0.021169
RB11	KJ744635.1 Aname sp. MYG339 voucher T105893	0.197740	0.021169
RB11	KJ744643.1 Aname sp. MYG339 voucher T105906	0.197740	0.021169
RB22	KJ744487.1 Aname sp. MYG365 voucher T102933	0.200565	0.021282
RB22	KJ745301.1 Aname sp. MYG365 T88596	0.200565	0.021282
RB22	KJ745302.1 Aname sp. MYG365 T88597	0.200565	0.021282
RB22	KJ745306.1 Aname sp. MYG365 T88603	0.200565	0.021282
RB06	KJ744487.1 Aname sp. MYG365 voucher T102933	0.200565	0.021282
RB06	KJ745301.1 Aname sp. MYG365 T88596	0.200565	0.021282
RB06	KJ745302.1 Aname sp. MYG365 T88597	0.200565	0.021282
RB06	KJ745306.1 Aname sp. MYG365 T88603	0.200565	0.021282
RB25	KJ744487.1 Aname sp. MYG365 voucher T102933	0.200565	0.021282
RB25	KJ745301.1 Aname sp. MYG365 T88596	0.200565	0.021282
RB25	KJ745302.1 Aname sp. MYG365 T88597	0.200565	0.021282
RB25	KJ745306.1 Aname sp. MYG365 T88603	0.200565	0.021282
RB28	KJ745305.1 Aname sp. MYG365 voucher T88602	0.200565	0.021282
RB29	KJ744618.1 Aname sp. MYG339 voucher T105862	0.200565	0.021282
RB29	KJ744625.1 Aname sp. MYG339 voucher T105873	0.200565	0.021282
RB29	KJ744637.1 Aname sp. MYG339 voucher T105899	0.200565	0.021282
RB29	KJ744638.1 Aname sp. MYG339 voucher T105900	0.200565	0.021282
RB29	KJ745016.1 Aname sp. MYG329 voucher T122273	0.200565	0.021282
RB08	KJ745305.1 Aname sp. MYG365 voucher T88602	0.200565	0.021282
RB11	KJ744618.1 Aname sp. MYG339 voucher T105862	0.200565	0.021282
RB11	KJ744625.1 Aname sp. MYG339 voucher T105873	0.200565	0.021282
RB11	KJ744637.1 Aname sp. MYG339 voucher T105899	0.200565	0.021282
RB11	KJ744638.1 Aname sp. MYG339 voucher T105900	0.200565	0.021282
RB11	KJ745016.1 Aname sp. MYG329 voucher T122273	0.200565	0.021282
RB22	KJ744854.1 Aname sp. MYG004 voucher T116771	0.200565	0.021282
RB22	KJ745242.1 Aname sp. MYG177 T76820	0.200565	0.021282
RB06	KJ744854.1 Aname sp. MYG004 voucher T116771	0.200565	0.021282
RB06	KJ745242.1 Aname sp. MYG177 T76820	0.200565	0.021282
RB25	KJ744854.1 Aname sp. MYG004 voucher T116771	0.200565	0.021282
RB25	KJ745242.1 Aname sp. MYG177 T76820	0.200565	0.021282
RB22	KJ745305.1 Aname sp. MYG365 voucher T88602	0.203390	0.021394
RB06	KJ745305.1 Aname sp. MYG365 voucher T88602	0.203390	0.021394
RB25	KJ745305.1 Aname sp. MYG365 voucher T88602	0.203390	0.021394
RB28	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.203390	0.021394
RB29	KJ744487.1 Aname sp. MYG365 voucher T102933	0.203390	0.021394
RB29	KJ745301.1 Aname sp. MYG365 T88596	0.203390	0.021394
RB29	KJ745302.1 Aname sp. MYG365 T88597	0.203390	0.021394
RB29	KJ745306.1 Aname sp. MYG365 T88603	0.203390	0.021394
RB08	KJ744892.1 Aname sp. MYG004 voucher T116863	0.203390	0.021394
RB08	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.203390	0.021394
RB11	KJ744487.1 Aname sp. MYG365 voucher T102933	0.203390	0.021394
RB11	KJ745301.1 Aname sp. MYG365 T88596	0.203390	0.021394
RB11	KJ745302.1 Aname sp. MYG365 T88597	0.203390	0.021394
RB11	KJ745306.1 Aname sp. MYG365 T88603	0.203390	0.021394
RB29	KJ744892.1 Aname sp. MYG004 voucher T116863	0.206215	0.021504
RB29	KJ745305.1 Aname sp. MYG365 voucher T88602	0.206215	0.021504
RB11	KJ744892.1 Aname sp. MYG004 voucher T116863	0.206215	0.021504
RB11	KJ745305.1 Aname sp. MYG365 voucher T88602	0.206215	0.021504
RB22	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB22	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.209040	0.021612
RB06	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB06	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.209040	0.021612
RB25	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB25	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.209040	0.021612
RB29	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.211864	0.021718
RB11	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.211864	0.021718
RB08	EU404114 Centruroides vittatus	0.248588	0.022971
RB27	EU404114 Centruroides vittatus	0.251412	0.023058
RB28	EU404114 Centruroides vittatus	0.254237	0.023143
RB28	JF700146 Mesobuthus martensii	0.259887	0.023310
RB29	EU404114 Centruroides vittatus	0.259887	0.023310
RB11	EU404114 Centruroides vittatus	0.259887	0.023310
RB27	JF700146 Mesobuthus martensii	0.262712	0.023391
RB22	JF700146 Mesobuthus martensii	0.265537	0.023472
RB06	JF700146 Mesobuthus martensii	0.265537	0.023472
RB25	JF700146 Mesobuthus martensii	0.265537	0.023472
RB22	EU404114 Centruroides vittatus	0.268362	0.023551
RB06	EU404114 Centruroides vittatus	0.268362	0.023551

Mt Gibson specimen	Reference specimen	p-distance	SE
RB25	EU404114 Centruroides vittatus	0.268362	0.023551
RB08	JF700146 Mesobuthus martensii	0.268362	0.023551
RB29	JF700146 Mesobuthus martensii	0.271186	0.023629
RB11	JF700146 Mesobuthus martensii	0.271186	0.023629

Appendix 5

Molecular p-distance of the Mt Gibson **H-N157***
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB04	KJ745299.1 Aname sp. MYG001 T86678	0.070621	0.013616
RB07	KJ745299.1 Aname sp. MYG001 T86678	0.073446	0.013865
RB14	KJ745299.1 Aname sp. MYG001 T86678	0.073446	0.013865
RB20	KJ745299.1 Aname sp. MYG001 T86678	0.073446	0.013865
RB05	KJ745299.1 Aname sp. MYG001 T86678	0.076271	0.014108
RB01	KJ745299.1 Aname sp. MYG001 T86678	0.076271	0.014108
RB49	KJ745299.1 Aname sp. MYG001 T86678	0.079096	0.014344
RB10	KJ745299.1 Aname sp. MYG001 T86678	0.079096	0.014344
RB14	KJ745240.1 Aname sp. MYG177 voucher T74758	0.124294	0.017535
RB04	KJ745240.1 Aname sp. MYG177 voucher T74758	0.129944	0.017871
RB07	KJ745240.1 Aname sp. MYG177 voucher T74758	0.129944	0.017871
RB20	KJ745240.1 Aname sp. MYG177 voucher T74758	0.129944	0.017871
RB05	KJ745240.1 Aname sp. MYG177 voucher T74758	0.132768	0.018035
RB01	KJ745240.1 Aname sp. MYG177 voucher T74758	0.132768	0.018035
RB07	KJ745239.1 Aname sp. MYG177 T74755	0.135593	0.018196
RB14	KJ745239.1 Aname sp. MYG177 T74755	0.135593	0.018196
RB14	KJ745242.1 Aname sp. MYG177 T76820	0.135593	0.018196
RB49	KJ745240.1 Aname sp. MYG177 voucher T74758	0.135593	0.018196
RB10	KJ745240.1 Aname sp. MYG177 voucher T74758	0.135593	0.018196
RB20	KJ745239.1 Aname sp. MYG177 T74755	0.135593	0.018196
RB04	KJ745239.1 Aname sp. MYG177 T74755	0.138418	0.018355
RB04	KJ745242.1 Aname sp. MYG177 T76820	0.138418	0.018355
RB05	KJ745239.1 Aname sp. MYG177 T74755	0.138418	0.018355
RB07	KJ745242.1 Aname sp. MYG177 T76820	0.138418	0.018355
RB14	KJ745241.1 Aname sp. MYG177 voucher T76819	0.138418	0.018355
RB14	KJ745243.1 Aname sp. MYG177 voucher T76821	0.138418	0.018355
RB14	KJ745246.1 Aname sp. MYG177 voucher T76824	0.138418	0.018355
RB14	KJ745247.1 Aname sp. MYG177 voucher T76825	0.138418	0.018355
RB14	KJ745248.1 Aname sp. MYG177 voucher T76826	0.138418	0.018355
RB01	KJ745239.1 Aname sp. MYG177 T74755	0.138418	0.018355
RB20	KJ745242.1 Aname sp. MYG177 T76820	0.138418	0.018355
RB04	KJ745241.1 Aname sp. MYG177 voucher T76819	0.141243	0.018510
RB04	KJ745243.1 Aname sp. MYG177 voucher T76821	0.141243	0.018510
RB04	KJ745246.1 Aname sp. MYG177 voucher T76824	0.141243	0.018510
RB04	KJ745247.1 Aname sp. MYG177 voucher T76825	0.141243	0.018510
RB04	KJ745248.1 Aname sp. MYG177 voucher T76826	0.141243	0.018510
RB05	KJ745242.1 Aname sp. MYG177 T76820	0.141243	0.018510
RB07	KJ745241.1 Aname sp. MYG177 voucher T76819	0.141243	0.018510
RB07	KJ745243.1 Aname sp. MYG177 voucher T76821	0.141243	0.018510
RB07	KJ745246.1 Aname sp. MYG177 voucher T76824	0.141243	0.018510
RB07	KJ745247.1 Aname sp. MYG177 voucher T76825	0.141243	0.018510
RB07	KJ745248.1 Aname sp. MYG177 voucher T76826	0.141243	0.018510
RB49	KJ745239.1 Aname sp. MYG177 T74755	0.141243	0.018510
RB10	KJ745239.1 Aname sp. MYG177 T74755	0.141243	0.018510
RB01	KJ745242.1 Aname sp. MYG177 T76820	0.141243	0.018510
RB20	KJ745241.1 Aname sp. MYG177 voucher T76819	0.141243	0.018510
RB20	KJ745243.1 Aname sp. MYG177 voucher T76821	0.141243	0.018510
RB20	KJ745246.1 Aname sp. MYG177 voucher T76824	0.141243	0.018510
RB20	KJ745247.1 Aname sp. MYG177 voucher T76825	0.141243	0.018510
RB20	KJ745248.1 Aname sp. MYG177 voucher T76826	0.141243	0.018510
RB05	KJ745241.1 Aname sp. MYG177 voucher T76819	0.144068	0.018664
RB05	KJ745243.1 Aname sp. MYG177 voucher T76821	0.144068	0.018664
RB05	KJ745246.1 Aname sp. MYG177 voucher T76824	0.144068	0.018664
RB05	KJ745247.1 Aname sp. MYG177 voucher T76825	0.144068	0.018664
RB05	KJ745248.1 Aname sp. MYG177 voucher T76826	0.144068	0.018664
RB07	KJ744720.1 Aname sp. MYG001 T110201	0.144068	0.018664
RB14	KJ744733.1 Aname sp. MYG177 T112359	0.144068	0.018664
RB14	KJ745249.1 Aname sp. MYG177 T76827	0.144068	0.018664
RB14	KJ745256.1 Aname sp. MYG177 voucher T77080	0.144068	0.018664
RB49	KJ745242.1 Aname sp. MYG177 T76820	0.144068	0.018664
RB10	KJ745242.1 Aname sp. MYG177 T76820	0.144068	0.018664
RB01	KJ745241.1 Aname sp. MYG177 voucher T76819	0.144068	0.018664
RB01	KJ745243.1 Aname sp. MYG177 voucher T76821	0.144068	0.018664
RB01	KJ745246.1 Aname sp. MYG177 voucher T76824	0.144068	0.018664
RB01	KJ745247.1 Aname sp. MYG177 voucher T76825	0.144068	0.018664
RB01	KJ745248.1 Aname sp. MYG177 voucher T76826	0.144068	0.018664
RB04	KJ744733.1 Aname sp. MYG177 T112359	0.146893	0.018815
RB04	KJ745249.1 Aname sp. MYG177 T76827	0.146893	0.018815
RB14	KJ744577.1 Aname mellosa T103913	0.146893	0.018815
RB14	KJ744982.1 Aname mellosa T122207	0.146893	0.018815
RB14	KJ745155.1:2-658 Aname mellosa voucher T126273	0.146893	0.018815
RB04	KJ745256.1 Aname sp. MYG177 voucher T77080	0.146893	0.018815
RB05	KJ744718.1 Aname sp. MYG00 T110197	0.146893	0.018815
RB05	KJ744720.1 Aname sp. MYG001 T110201	0.146893	0.018815
RB05	KJ744890.1:2-658 Aname mellosa voucher T116858	0.146893	0.018815
RB07	KJ744733.1 Aname sp. MYG177 T112359	0.146893	0.018815
RB07	KJ745249.1 Aname sp. MYG177 T76827	0.146893	0.018815
RB07	KJ745256.1 Aname sp. MYG177 voucher T77080	0.146893	0.018815
RB14	KJ744409.1 Aname sp. MYG001 T102040	0.146893	0.018815
RB14	KJ744662.1:240-658 Aname mellosa voucher T107945	0.146893	0.018815
RB14	KJ744720.1 Aname sp. MYG001 T110201	0.146893	0.018815
RB14	KJ745244.1 Aname sp. MYG177 T76822	0.146893	0.018815
RB14	KJ745251.1 Aname sp. MYG177 T76829	0.146893	0.018815
RB14	KJ745257.1 Aname sp. MYG177 T77081	0.146893	0.018815
RB49	KJ745241.1 Aname sp. MYG177 voucher T76819	0.146893	0.018815
RB49	KJ745243.1 Aname sp. MYG177 voucher T76821	0.146893	0.018815

Mt Gibson specimen	Reference specimen	p-distance	SE
RB49	KJ745246.1 Aname sp. MYG177 voucher T76824	0.146893	0.018815
RB49	KJ745247.1 Aname sp. MYG177 voucher T76825	0.146893	0.018815
RB49	KJ745248.1 Aname sp. MYG177 voucher T76826	0.146893	0.018815
RB10	KJ745241.1 Aname sp. MYG177 voucher T76819	0.146893	0.018815
RB10	KJ745243.1 Aname sp. MYG177 voucher T76821	0.146893	0.018815
RB10	KJ745246.1 Aname sp. MYG177 voucher T76824	0.146893	0.018815
RB10	KJ745247.1 Aname sp. MYG177 voucher T76825	0.146893	0.018815
RB10	KJ745248.1 Aname sp. MYG177 voucher T76826	0.146893	0.018815
RB20	KJ744733.1 Aname sp. MYG177 T112359	0.146893	0.018815
RB20	KJ745249.1 Aname sp. MYG177 T76827	0.146893	0.018815
RB20	KJ745256.1 Aname sp. MYG177 voucher T77080	0.146893	0.018815
RB04	KJ745244.1 Aname sp. MYG177 T76822	0.149718	0.018963
RB04	KJ745251.1 Aname sp. MYG177 T76829	0.149718	0.018963
RB04	KJ745257.1 Aname sp. MYG177 T77081	0.149718	0.018963
RB05	KJ744733.1 Aname sp. MYG177 T112359	0.149718	0.018963
RB05	KJ745249.1 Aname sp. MYG177 T76827	0.149718	0.018963
RB05	KJ745256.1 Aname sp. MYG177 voucher T77080	0.149718	0.018963
RB05	KJ745296.1 Aname sp. MYG364 T85262	0.149718	0.018963
RB07	KJ744409.1 Aname sp. MYG001 T102040	0.149718	0.018963
RB07	KJ744577.1 Aname mellosa T103913	0.149718	0.018963
RB07	KJ744718.1 Aname sp. MYG00 T110197	0.149718	0.018963
RB07	KJ744722.1 Aname sp. MYG001 T110203	0.149718	0.018963
RB07	KJ744724.1 Aname sp. MYG001 T110206	0.149718	0.018963
RB07	KJ745244.1 Aname sp. MYG177 T76822	0.149718	0.018963
RB07	KJ745251.1 Aname sp. MYG177 T76829	0.149718	0.018963
RB07	KJ745257.1 Aname sp. MYG177 T77081	0.149718	0.018963
RB07	KJ745468.1 Aname sp. MYG366 T98766	0.149718	0.018963
RB07	KJ745469.1 Aname sp. MYG366 T98768	0.149718	0.018963
RB07	KJ745474.1 Aname sp. MYG366 T98774	0.149718	0.018963
RB07	KJ745477.1 Aname sp. MYG366 T98869	0.149718	0.018963
RB14	KJ744412.1 Aname sp. MYG001 102044	0.149718	0.018963
RB14	KJ744571.1 Aname mellosa T103906	0.149718	0.018963
RB14	KJ744623.1:239-658 Aname mellosa voucher T105871	0.149718	0.018963
RB14	KJ744781.1 Aname mellosa T113636	0.149718	0.018963
RB14	KJ745245.1 Aname sp. MYG177 T76823	0.149718	0.018963
RB49	KJ744718.1 Aname sp. MYG00 T110197	0.149718	0.018963
RB49	KJ744720.1 Aname sp. MYG001 T110201	0.149718	0.018963
RB49	KJ744890.1:2-658 Aname mellosa voucher T116858	0.149718	0.018963
RB10	KJ744718.1 Aname sp. MYG00 T110197	0.149718	0.018963
RB10	KJ744720.1 Aname sp. MYG001 T110201	0.149718	0.018963
RB10	KJ744890.1:2-658 Aname mellosa voucher T116858	0.149718	0.018963
RB01	KJ744733.1 Aname sp. MYG177 T112359	0.149718	0.018963
RB01	KJ745249.1 Aname sp. MYG177 T76827	0.149718	0.018963
RB01	KJ745256.1 Aname sp. MYG177 voucher T77080	0.149718	0.018963
RB20	KJ744718.1 Aname sp. MYG00 T110197	0.149718	0.018963
RB20	KJ744720.1 Aname sp. MYG001 T110201	0.149718	0.018963
RB20	KJ744890.1:2-658 Aname mellosa voucher T116858	0.149718	0.018963
RB20	KJ745244.1 Aname sp. MYG177 T76822	0.149718	0.018963
RB20	KJ745251.1 Aname sp. MYG177 T76829	0.149718	0.018963
RB20	KJ745257.1 Aname sp. MYG177 T77081	0.149718	0.018963
RB04	KJ744409.1 Aname sp. MYG001 T102040	0.152542	0.019110
RB04	KJ744662.1:240-658 Aname mellosa voucher T107945	0.152542	0.019110
RB04	KJ744718.1 Aname sp. MYG00 T110197	0.152542	0.019110
RB04	KJ744720.1 Aname sp. MYG001 T110201	0.152542	0.019110
RB04	KJ745245.1 Aname sp. MYG177 T76823	0.152542	0.019110
RB05	KJ744390.1:2-658 Aname mellosa voucher T101154	0.152542	0.019110
RB05	KJ745244.1 Aname sp. MYG177 T76822	0.152542	0.019110
RB05	KJ745251.1 Aname sp. MYG177 T76829	0.152542	0.019110
RB05	KJ745257.1 Aname sp. MYG177 T77081	0.152542	0.019110
RB05	KJ745468.1 Aname sp. MYG366 T98766	0.152542	0.019110
RB05	KJ745469.1 Aname sp. MYG366 T98768	0.152542	0.019110
RB05	KJ745474.1 Aname sp. MYG366 T98774	0.152542	0.019110
RB05	KJ745477.1 Aname sp. MYG366 T98869	0.152542	0.019110
RB07	KJ744412.1 Aname sp. MYG001 102044	0.152542	0.019110
RB14	KJ744651.1 Aname mellosa T107182	0.152542	0.019110
RB14	KJ744718.1 Aname sp. MYG00 T110197	0.152542	0.019110
RB14	KJ744722.1 Aname sp. MYG001 T110203	0.152542	0.019110
RB14	KJ744724.1 Aname sp. MYG001 T110206	0.152542	0.019110
RB14	KJ744775.1:239-658 Aname mellosa voucher T113629	0.152542	0.019110
RB14	KJ744785.1:239-658 Aname mellosa voucher T113642	0.152542	0.019110
RB14	KJ744788.1:239-658 Aname mellosa voucher T113648	0.152542	0.019110
RB14	KJ744791.1:239-658 Aname mellosa voucher T113654	0.152542	0.019110
RB14	KJ744803.1:2-658 Aname mellosa voucher T113666	0.152542	0.019110
RB14	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.152542	0.019110
RB49	KJ744733.1 Aname sp. MYG177 T112359	0.152542	0.019110
RB49	KJ745249.1 Aname sp. MYG177 T76827	0.152542	0.019110
RB49	KJ745256.1 Aname sp. MYG177 voucher T77080	0.152542	0.019110
RB10	KJ744733.1 Aname sp. MYG177 T112359	0.152542	0.019110
RB10	KJ745249.1 Aname sp. MYG177 T76827	0.152542	0.019110
RB10	KJ745256.1 Aname sp. MYG177 voucher T77080	0.152542	0.019110
RB01	KJ744718.1 Aname sp. MYG00 T110197	0.152542	0.019110
RB01	KJ744720.1 Aname sp. MYG001 T110201	0.152542	0.019110
RB04	KJ744577.1 Aname mellosa T103913	0.152542	0.019110
RB04	KJ744651.1 Aname mellosa T107182	0.152542	0.019110
RB04	KJ744890.1:2-658 Aname mellosa voucher T116858	0.152542	0.019110
RB04	KJ744982.1 Aname mellosa T122207	0.152542	0.019110

Mt Gibson specimen	Reference specimen	p-distance	SE
RB04	KJ745155.1:2-658 Aname mellosa voucher T126273	0.152542	0.019110
RB05	KJ744409.1 Aname sp. MYG001 T102040	0.152542	0.019110
RB05	KJ744577.1 Aname mellosa T103913	0.152542	0.019110
RB05	KJ744662.1:240-658 Aname mellosa voucher T107945	0.152542	0.019110
RB05	KJ744722.1 Aname sp. MYG001 T110203	0.152542	0.019110
RB05	KJ744724.1 Aname sp. MYG001 T110206	0.152542	0.019110
RB05	KJ744761.1:2-658 Aname mellosa voucher T113608	0.152542	0.019110
RB05	KJ744982.1 Aname mellosa T122207	0.152542	0.019110
RB05	KJ745155.1:2-658 Aname mellosa voucher T126273	0.152542	0.019110
RB07	KJ744571.1 Aname mellosa T103906	0.152542	0.019110
RB07	KJ745245.1 Aname sp. MYG177 T76823	0.152542	0.019110
RB07	KJ745296.1 Aname sp. MYG364 T85262	0.152542	0.019110
RB14	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.152542	0.019110
RB14	KJ744890.1:2-658 Aname mellosa voucher T116858	0.152542	0.019110
RB14	KJ745296.1 Aname sp. MYG364 T85262	0.152542	0.019110
RB01	KJ744890.1:2-658 Aname mellosa voucher T116858	0.152542	0.019110
RB01	KJ745244.1 Aname sp. MYG177 T76822	0.152542	0.019110
RB01	KJ745251.1 Aname sp. MYG177 T76829	0.152542	0.019110
RB01	KJ745257.1 Aname sp. MYG177 T77081	0.152542	0.019110
RB20	KJ745245.1 Aname sp. MYG177 T76823	0.152542	0.019110
RB20	KJ745296.1 Aname sp. MYG364 T85262	0.152542	0.019110
RB04	KJ744412.1 Aname sp. MYG001 102044	0.155367	0.019254
RB04	KJ744571.1 Aname mellosa T103906	0.155367	0.019254
RB04	KJ744623.1:239-658 Aname mellosa voucher T105871	0.155367	0.019254
RB04	KJ744650.1:1-658 Aname mellosa voucher T107181	0.155367	0.019254
RB04	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB04	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB04	KJ745159.1:2-658 Aname mellosa voucher T126279	0.155367	0.019254
RB04	KJ745170.1 Aname mellosa T126301	0.155367	0.019254
RB05	KJ744392.1:2-658 Aname mellosa voucher T101156	0.155367	0.019254
RB05	KJ744412.1 Aname sp. MYG001 102044	0.155367	0.019254
RB05	KJ744552.1:2-658 Aname mellosa voucher T103255	0.155367	0.019254
RB05	KJ744562.1:2-658 Aname mellosa voucher T103270	0.155367	0.019254
RB05	KJ744571.1 Aname mellosa T103906	0.155367	0.019254
RB05	KJ744623.1:239-658 Aname mellosa voucher T105871	0.155367	0.019254
RB05	KJ744781.1 Aname mellosa T113636	0.155367	0.019254
RB05	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB05	KJ745176.1:2-658 Aname mellosa voucher T127205	0.155367	0.019254
RB05	KJ745184.1:2-658 Aname mellosa voucher T127219	0.155367	0.019254
RB05	KJ745191.1:2-658 Aname mellosa voucher T127228	0.155367	0.019254
RB05	KJ745245.1 Aname sp. MYG177 T76823	0.155367	0.019254
RB07	KJ744662.1:240-658 Aname mellosa voucher T107945	0.155367	0.019254
RB07	KJ744717.1 Aname sp. MYG001 T110195	0.155367	0.019254
RB07	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.155367	0.019254
RB07	KJ744890.1:2-658 Aname mellosa voucher T116858	0.155367	0.019254
RB07	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB07	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB07	KJ745155.1:2-658 Aname mellosa voucher T126273	0.155367	0.019254
RB07	KJ745467.1 Aname sp. MYG366 T98765	0.155367	0.019254
RB14	KJ744394.1 Aname mellosa T101158	0.155367	0.019254
RB14	KJ744611.1 Aname mellosa T10585	0.155367	0.019254
RB14	KJ744650.1:1-658 Aname mellosa voucher T107181	0.155367	0.019254
RB14	KJ744661.1:240-658 Aname mellosa voucher T107942	0.155367	0.019254
RB14	KJ744669.1:242-658 Aname mellosa voucher T107968	0.155367	0.019254
RB14	KJ745051.1 Aname mellosa T122823	0.155367	0.019254
RB14	KJ745093.1 Aname mellosa T122870	0.155367	0.019254
RB14	KJ745134.1:242-658 Aname mellosa voucher T126250	0.155367	0.019254
RB14	KJ745143.1:242-658 Aname mellosa voucher T126259	0.155367	0.019254
RB14	KJ745146.1:2-658 Aname mellosa voucher T126262	0.155367	0.019254
RB14	KJ745159.1:2-658 Aname mellosa voucher T126279	0.155367	0.019254
RB14	KJ745170.1 Aname mellosa T126301	0.155367	0.019254
RB49	KJ744390.1:2-658 Aname mellosa voucher T101154	0.155367	0.019254
RB49	KJ744409.1 Aname sp. MYG001 T102040	0.155367	0.019254
RB49	KJ744577.1 Aname mellosa T103913	0.155367	0.019254
RB49	KJ744662.1:240-658 Aname mellosa voucher T107945	0.155367	0.019254
RB49	KJ744722.1 Aname sp. MYG001 T110203	0.155367	0.019254
RB49	KJ744724.1 Aname sp. MYG001 T110206	0.155367	0.019254
RB49	KJ744761.1:2-658 Aname mellosa voucher T113608	0.155367	0.019254
RB49	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB49	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB49	KJ745155.1:2-658 Aname mellosa voucher T126273	0.155367	0.019254
RB49	KJ745244.1 Aname sp. MYG177 T76822	0.155367	0.019254
RB49	KJ745251.1 Aname sp. MYG177 T76829	0.155367	0.019254
RB49	KJ745257.1 Aname sp. MYG177 T77081	0.155367	0.019254
RB49	KJ745296.1 Aname sp. MYG364 T85262	0.155367	0.019254
RB49	KJ745468.1 Aname sp. MYG366 T98766	0.155367	0.019254
RB49	KJ745469.1 Aname sp. MYG366 T98768	0.155367	0.019254
RB49	KJ745474.1 Aname sp. MYG366 T98774	0.155367	0.019254
RB49	KJ745477.1 Aname sp. MYG366 T98869	0.155367	0.019254
RB10	KJ744390.1:2-658 Aname mellosa voucher T101154	0.155367	0.019254
RB10	KJ744409.1 Aname sp. MYG001 T102040	0.155367	0.019254
RB10	KJ744577.1 Aname mellosa T103913	0.155367	0.019254
RB10	KJ744662.1:240-658 Aname mellosa voucher T107945	0.155367	0.019254
RB10	KJ744722.1 Aname sp. MYG001 T110203	0.155367	0.019254
RB10	KJ744724.1 Aname sp. MYG001 T110206	0.155367	0.019254
RB10	KJ744761.1:2-658 Aname mellosa voucher T113608	0.155367	0.019254

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB10	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB10	KJ745155.1:2-658 Aname mellosa voucher T126273	0.155367	0.019254
RB10	KJ745244.1 Aname sp. MYG177 T76822	0.155367	0.019254
RB10	KJ745251.1 Aname sp. MYG177 T76829	0.155367	0.019254
RB10	KJ745257.1 Aname sp. MYG177 T77081	0.155367	0.019254
RB10	KJ745296.1 Aname sp. MYG364 T85262	0.155367	0.019254
RB10	KJ745468.1 Aname sp. MYG366 T98766	0.155367	0.019254
RB10	KJ745469.1 Aname sp. MYG366 T98768	0.155367	0.019254
RB10	KJ745474.1 Aname sp. MYG366 T98774	0.155367	0.019254
RB10	KJ745477.1 Aname sp. MYG366 T98869	0.155367	0.019254
RB01	KJ745245.1 Aname sp. MYG177 T76823	0.155367	0.019254
RB01	KJ745296.1 Aname sp. MYG364 T85262	0.155367	0.019254
RB20	KJ744390.1:2-658 Aname mellosa voucher T101154	0.155367	0.019254
RB20	KJ744409.1 Aname sp. MYG001 T102040	0.155367	0.019254
RB20	KJ744577.1 Aname mellosa T103913	0.155367	0.019254
RB20	KJ744662.1:240-658 Aname mellosa voucher T107945	0.155367	0.019254
RB20	KJ744722.1 Aname sp. MYG001 T110203	0.155367	0.019254
RB20	KJ744724.1 Aname sp. MYG001 T110206	0.155367	0.019254
RB20	KJ744761.1:2-658 Aname mellosa voucher T113608	0.155367	0.019254
RB20	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.155367	0.019254
RB20	KJ744982.1 Aname mellosa T122207	0.155367	0.019254
RB20	KJ745155.1:2-658 Aname mellosa voucher T126273	0.155367	0.019254
RB20	KJ745468.1 Aname sp. MYG366 T98766	0.155367	0.019254
RB20	KJ745469.1 Aname sp. MYG366 T98768	0.155367	0.019254
RB20	KJ745474.1 Aname sp. MYG366 T98774	0.155367	0.019254
RB20	KJ745477.1 Aname sp. MYG366 T98869	0.155367	0.019254
RB04	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.158192	0.019395
RB04	KJ744390.1:2-658 Aname mellosa voucher T101154	0.158192	0.019395
RB04	KJ744717.1 Aname sp. MYG001 T110195	0.158192	0.019395
RB04	KJ744722.1 Aname sp. MYG001 T110203	0.158192	0.019395
RB04	KJ744724.1 Aname sp. MYG001 T110206	0.158192	0.019395
RB04	KJ744775.1:239-658 Aname mellosa voucher T113629	0.158192	0.019395
RB04	KJ744785.1:239-658 Aname mellosa voucher T113642	0.158192	0.019395
RB04	KJ744788.1:239-658 Aname mellosa voucher T113648	0.158192	0.019395
RB04	KJ744791.1:239-658 Aname mellosa voucher T113654	0.158192	0.019395
RB04	KJ744803.1:2-658 Aname mellosa voucher T113666	0.158192	0.019395
RB04	KJ745168.1 Aname mellosa T126296	0.158192	0.019395
RB04	KJ745370.1 Aname mellosa T92455	0.158192	0.019395
RB04	KJ745396.1 Aname mellosa T95400	0.158192	0.019395
RB05	KJ744398.1:242-658 Aname mellosa voucher T101163	0.158192	0.019395
RB05	KJ744651.1 Aname mellosa T107182	0.158192	0.019395
RB05	KJ744717.1 Aname sp. MYG001 T110195	0.158192	0.019395
RB05	KJ744775.1:239-658 Aname mellosa voucher T113629	0.158192	0.019395
RB05	KJ744785.1:239-658 Aname mellosa voucher T113642	0.158192	0.019395
RB05	KJ744791.1:239-658 Aname mellosa voucher T113654	0.158192	0.019395
RB05	KJ744803.1:2-658 Aname mellosa voucher T113666	0.158192	0.019395
RB05	KJ744987.1 Aname mellosa T122215	0.158192	0.019395
RB05	KJ745004.1:2-658 Aname mellosa voucher T122242	0.158192	0.019395
RB05	KJ745172.1:2-658 Aname mellosa voucher T127198	0.158192	0.019395
RB05	KJ745467.1 Aname sp. MYG366 T98765	0.158192	0.019395
RB14	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.158192	0.019395
RB14	KJ744491.1 Aname mellosa T103177	0.158192	0.019395
RB14	KJ744630.1 Aname mellosa T105886	0.158192	0.019395
RB14	KJ744717.1 Aname sp. MYG001 T110195	0.158192	0.019395
RB14	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.158192	0.019395
RB14	KJ744761.1:2-658 Aname mellosa voucher T113608	0.158192	0.019395
RB14	KJ744926.1:2-658 Aname mellosa voucher T119710	0.158192	0.019395
RB14	KJ744977.1:2-658 Aname mellosa voucher T122200	0.158192	0.019395
RB14	KJ744987.1 Aname mellosa T122215	0.158192	0.019395
RB14	KJ745004.1:2-658 Aname mellosa voucher T122242	0.158192	0.019395
RB14	KJ745153.1:242-658 Aname mellosa voucher T126271	0.158192	0.019395
RB14	KJ745160.1:242-658 Aname mellosa voucher T126280	0.158192	0.019395
RB14	KJ745168.1 Aname mellosa T126296	0.158192	0.019395
RB14	KJ745172.1:2-658 Aname mellosa voucher T127198	0.158192	0.019395
RB14	KJ745198.1:1-658 Aname mainae voucher T42354	0.158192	0.019395
RB14	KJ745365.1 Aname mellosa T92127	0.158192	0.019395
RB14	KJ745370.1 Aname mellosa T92455	0.158192	0.019395
RB14	KJ745396.1 Aname mellosa T95400	0.158192	0.019395
RB49	KJ744392.1:2-658 Aname mellosa voucher T101156	0.158192	0.019395
RB49	KJ744552.1:2-658 Aname mellosa voucher T103255	0.158192	0.019395
RB49	KJ744562.1:2-658 Aname mellosa voucher T103270	0.158192	0.019395
RB49	KJ744571.1 Aname mellosa T103906	0.158192	0.019395
RB49	KJ744623.1:239-658 Aname mellosa voucher T105871	0.158192	0.019395
RB49	KJ744781.1 Aname mellosa T113636	0.158192	0.019395
RB49	KJ745176.1:2-658 Aname mellosa voucher T127205	0.158192	0.019395
RB49	KJ745184.1:2-658 Aname mellosa voucher T127219	0.158192	0.019395
RB49	KJ745191.1:2-658 Aname mellosa voucher T127228	0.158192	0.019395
RB49	KJ745245.1 Aname sp. MYG177 T76823	0.158192	0.019395
RB10	KJ744392.1:2-658 Aname mellosa voucher T101156	0.158192	0.019395
RB10	KJ744552.1:2-658 Aname mellosa voucher T103255	0.158192	0.019395
RB10	KJ744562.1:2-658 Aname mellosa voucher T103270	0.158192	0.019395
RB10	KJ744571.1 Aname mellosa T103906	0.158192	0.019395
RB10	KJ744623.1:239-658 Aname mellosa voucher T105871	0.158192	0.019395
RB10	KJ744781.1 Aname mellosa T113636	0.158192	0.019395
RB10	KJ745176.1:2-658 Aname mellosa voucher T127205	0.158192	0.019395

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ745184.1:2-658 Aname mellosa voucher T127219	0.158192	0.019395
RB10	KJ745191.1:2-658 Aname mellosa voucher T127228	0.158192	0.019395
RB10	KJ745245.1 Aname sp. MYG177 T76823	0.158192	0.019395
RB01	KJ744390.1:2-658 Aname mellosa voucher T101154	0.158192	0.019395
RB01	KJ744409.1 Aname sp. MYG001 T102040	0.158192	0.019395
RB01	KJ744577.1 Aname mellosa T103913	0.158192	0.019395
RB01	KJ744722.1 Aname sp. MYG001 T110203	0.158192	0.019395
RB01	KJ744724.1 Aname sp. MYG001 T110206	0.158192	0.019395
RB01	KJ744761.1:2-658 Aname mellosa voucher T113608	0.158192	0.019395
RB01	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.158192	0.019395
RB01	KJ744982.1 Aname mellosa T122207	0.158192	0.019395
RB01	KJ745155.1:2-658 Aname mellosa voucher T126273	0.158192	0.019395
RB01	KJ745468.1 Aname sp. MYG366 T98766	0.158192	0.019395
RB01	KJ745469.1 Aname sp. MYG366 T98768	0.158192	0.019395
RB01	KJ745474.1 Aname sp. MYG366 T98774	0.158192	0.019395
RB01	KJ745477.1 Aname sp. MYG366 T98869	0.158192	0.019395
RB20	KJ744392.1:2-658 Aname mellosa voucher T101156	0.158192	0.019395
RB20	KJ744412.1 Aname sp. MYG001 102044	0.158192	0.019395
RB20	KJ744552.1:2-658 Aname mellosa voucher T103255	0.158192	0.019395
RB20	KJ744562.1:2-658 Aname mellosa voucher T103270	0.158192	0.019395
RB20	KJ744571.1 Aname mellosa T103906	0.158192	0.019395
RB20	KJ745191.1:2-658 Aname mellosa voucher T127228	0.158192	0.019395
RB04	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.158192	0.019395
RB05	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.158192	0.019395
RB05	KJ744788.1:239-658 Aname mellosa voucher T113648	0.158192	0.019395
RB07	KJ744623.1:239-658 Aname mellosa voucher T105871	0.158192	0.019395
RB07	KJ744781.1 Aname mellosa T113636	0.158192	0.019395
RB14	KJ744390.1:2-658 Aname mellosa voucher T101154	0.158192	0.019395
RB49	KJ744412.1 Aname sp. MYG001 102044	0.158192	0.019395
RB10	KJ744412.1 Aname sp. MYG001 102044	0.158192	0.019395
RB01	KJ744662.1:240-658 Aname mellosa voucher T107945	0.158192	0.019395
RB20	KJ744623.1:239-658 Aname mellosa voucher T105871	0.158192	0.019395
RB20	KJ744781.1 Aname mellosa T113636	0.158192	0.019395
RB20	KJ745176.1:2-658 Aname mellosa voucher T127205	0.158192	0.019395
RB20	KJ745184.1:2-658 Aname mellosa voucher T127219	0.158192	0.019395
RB04	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.161017	0.019535
RB04	KJ744392.1:2-658 Aname mellosa voucher T101156	0.161017	0.019535
RB04	KJ744394.1 Aname mellosa T101158	0.161017	0.019535
RB04	KJ744552.1:2-658 Aname mellosa voucher T103255	0.161017	0.019535
RB04	KJ744562.1:2-658 Aname mellosa voucher T103270	0.161017	0.019535
RB04	KJ744611.1 Aname mellosa T10585	0.161017	0.019535
RB04	KJ744661.1:240-658 Aname mellosa voucher T107942	0.161017	0.019535
RB04	KJ744669.1:242-658 Aname mellosa voucher T107968	0.161017	0.019535
RB04	KJ745051.1 Aname mellosa T122823	0.161017	0.019535
RB04	KJ745093.1 Aname mellosa T122870	0.161017	0.019535
RB04	KJ745134.1:242-658 Aname mellosa voucher T126250	0.161017	0.019535
RB04	KJ745143.1:242-658 Aname mellosa voucher T126259	0.161017	0.019535
RB04	KJ745146.1:2-658 Aname mellosa voucher T126262	0.161017	0.019535
RB04	KJ745176.1:2-658 Aname mellosa voucher T127205	0.161017	0.019535
RB04	KJ745184.1:2-658 Aname mellosa voucher T127219	0.161017	0.019535
RB04	KJ745191.1:2-658 Aname mellosa voucher T127228	0.161017	0.019535
RB04	KJ745296.1 Aname sp. MYG364 T85262	0.161017	0.019535
RB04	KJ745398.1 Aname mellosa T95402	0.161017	0.019535
RB05	KJ744394.1 Aname mellosa T101158	0.161017	0.019535
RB05	KJ744611.1 Aname mellosa T10585	0.161017	0.019535
RB05	KJ744650.1:1-658 Aname mellosa voucher T107181	0.161017	0.019535
RB05	KJ744661.1:240-658 Aname mellosa voucher T107942	0.161017	0.019535
RB05	KJ744669.1:242-658 Aname mellosa voucher T107968	0.161017	0.019535
RB05	KJ744990.1:240-658 Aname mellosa voucher T122219	0.161017	0.019535
RB05	KJ745012.1 Aname mellosa T122263	0.161017	0.019535
RB05	KJ745051.1 Aname mellosa T122823	0.161017	0.019535
RB05	KJ745093.1 Aname mellosa T122870	0.161017	0.019535
RB05	KJ745134.1:242-658 Aname mellosa voucher T126250	0.161017	0.019535
RB05	KJ745143.1:242-658 Aname mellosa voucher T126259	0.161017	0.019535
RB05	KJ745146.1:2-658 Aname mellosa voucher T126262	0.161017	0.019535
RB05	KJ745159.1:2-658 Aname mellosa voucher T126279	0.161017	0.019535
RB05	KJ745170.1 Aname mellosa T126301	0.161017	0.019535
RB05	KJ745198.1:1-658 Aname mainae voucher T42354	0.161017	0.019535
RB07	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.161017	0.019535
RB07	KJ744390.1:2-658 Aname mellosa voucher T101154	0.161017	0.019535
RB07	KJ744651.1 Aname mellosa T107182	0.161017	0.019535
RB07	KJ744761.1:2-658 Aname mellosa voucher T113608	0.161017	0.019535
RB07	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB07	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB07	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB07	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB07	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB07	KJ744987.1 Aname mellosa T122215	0.161017	0.019535
RB07	KJ745004.1:2-658 Aname mellosa voucher T122242	0.161017	0.019535
RB07	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB14	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.161017	0.019535
RB14	KJ744392.1:2-658 Aname mellosa voucher T101156	0.161017	0.019535
RB14	KJ744552.1:2-658 Aname mellosa voucher T103255	0.161017	0.019535
RB14	KJ744562.1:2-658 Aname mellosa voucher T103270	0.161017	0.019535
RB14	KJ744990.1:240-658 Aname mellosa voucher T122219	0.161017	0.019535
RB14	KJ745012.1 Aname mellosa T122263	0.161017	0.019535

Mt Gibson specimen	Reference specimen	p-distance	SE
RB14	KJ745176.1:2-658 Aname mellosa voucher T127205	0.161017	0.019535
RB14	KJ745184.1:2-658 Aname mellosa voucher T127219	0.161017	0.019535
RB14	KJ745191.1:2-658 Aname mellosa voucher T127228	0.161017	0.019535
RB14	KJ745398.1 Aname mellosa T95402	0.161017	0.019535
RB49	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB49	KJ744717.1 Aname sp. MYG001 T110195	0.161017	0.019535
RB49	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.161017	0.019535
RB49	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB49	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB49	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB49	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB49	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB49	KJ744987.1 Aname mellosa T122215	0.161017	0.019535
RB49	KJ745004.1:2-658 Aname mellosa voucher T122242	0.161017	0.019535
RB49	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB49	KJ745467.1 Aname sp. MYG366 T98765	0.161017	0.019535
RB10	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB10	KJ744717.1 Aname sp. MYG001 T110195	0.161017	0.019535
RB10	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.161017	0.019535
RB10	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB10	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB10	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB10	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB10	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB10	KJ744987.1 Aname mellosa T122215	0.161017	0.019535
RB10	KJ745004.1:2-658 Aname mellosa voucher T122242	0.161017	0.019535
RB10	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB10	KJ745467.1 Aname sp. MYG366 T98765	0.161017	0.019535
RB01	KJ744392.1:2-658 Aname mellosa voucher T101156	0.161017	0.019535
RB01	KJ744412.1 Aname sp. MYG001 102044	0.161017	0.019535
RB01	KJ744552.1:2-658 Aname mellosa voucher T103255	0.161017	0.019535
RB01	KJ744562.1:2-658 Aname mellosa voucher T103270	0.161017	0.019535
RB01	KJ744571.1 Aname mellosa T103906	0.161017	0.019535
RB01	KJ744623.1:239-658 Aname mellosa voucher T105871	0.161017	0.019535
RB01	KJ744781.1 Aname mellosa T113636	0.161017	0.019535
RB01	KJ745176.1:2-658 Aname mellosa voucher T127205	0.161017	0.019535
RB01	KJ745184.1:2-658 Aname mellosa voucher T127219	0.161017	0.019535
RB01	KJ745191.1:2-658 Aname mellosa voucher T127228	0.161017	0.019535
RB20	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.161017	0.019535
RB20	KJ744398.1:242-658 Aname mellosa voucher T101163	0.161017	0.019535
RB20	KJ744651.1 Aname mellosa T107182	0.161017	0.019535
RB20	KJ744717.1 Aname sp. MYG001 T110195	0.161017	0.019535
RB20	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.161017	0.019535
RB20	KJ744775.1:239-658 Aname mellosa voucher T113629	0.161017	0.019535
RB20	KJ744785.1:239-658 Aname mellosa voucher T113642	0.161017	0.019535
RB20	KJ744788.1:239-658 Aname mellosa voucher T113648	0.161017	0.019535
RB20	KJ744791.1:239-658 Aname mellosa voucher T113654	0.161017	0.019535
RB20	KJ744803.1:2-658 Aname mellosa voucher T113666	0.161017	0.019535
RB20	KJ744987.1 Aname mellosa T122215	0.161017	0.019535
RB20	KJ745004.1:2-658 Aname mellosa voucher T122242	0.161017	0.019535
RB20	KJ745172.1:2-658 Aname mellosa voucher T127198	0.161017	0.019535
RB20	KJ745467.1 Aname sp. MYG366 T98765	0.161017	0.019535
RB04	KJ744398.1:242-658 Aname mellosa voucher T101163	0.163842	0.019672
RB04	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB04	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB04	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.163842	0.019672
RB04	KJ744761.1:2-658 Aname mellosa voucher T113608	0.163842	0.019672
RB04	KJ744926.1:2-658 Aname mellosa voucher T119710	0.163842	0.019672
RB04	KJ744977.1:2-658 Aname mellosa voucher T122200	0.163842	0.019672
RB04	KJ744987.1 Aname mellosa T122215	0.163842	0.019672
RB04	KJ745153.1:242-658 Aname mellosa voucher T126271	0.163842	0.019672
RB04	KJ745160.1:242-658 Aname mellosa voucher T126280	0.163842	0.019672
RB04	KJ745172.1:2-658 Aname mellosa voucher T127198	0.163842	0.019672
RB04	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB04	KJ745365.1 Aname mellosa T92127	0.163842	0.019672
RB04	KJ745371.1 Aname mellosa T92456	0.163842	0.019672
RB04	KJ745468.1 Aname sp. MYG366 T98766	0.163842	0.019672
RB04	KJ745469.1 Aname sp. MYG366 T98768	0.163842	0.019672
RB04	KJ745474.1 Aname sp. MYG366 T98774	0.163842	0.019672
RB04	KJ745477.1 Aname sp. MYG366 T98869	0.163842	0.019672
RB05	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.163842	0.019672
RB05	KJ744491.1 Aname mellosa T103177	0.163842	0.019672
RB05	KJ744499.1 Aname sp. MYG339 voucher T103191	0.163842	0.019672
RB05	KJ744630.1 Aname mellosa T105886	0.163842	0.019672
RB05	KJ744926.1:2-658 Aname mellosa voucher T119710	0.163842	0.019672
RB05	KJ744977.1:2-658 Aname mellosa voucher T122200	0.163842	0.019672
RB05	KJ745153.1:242-658 Aname mellosa voucher T126271	0.163842	0.019672
RB05	KJ745160.1:242-658 Aname mellosa voucher T126280	0.163842	0.019672
RB05	KJ745168.1 Aname mellosa T126296	0.163842	0.019672
RB05	KJ745203.1 Aname sp. MYG342 T52181	0.163842	0.019672
RB05	KJ745365.1 Aname mellosa T92127	0.163842	0.019672
RB07	KJ744392.1:2-658 Aname mellosa voucher T101156	0.163842	0.019672
RB07	KJ744394.1 Aname mellosa T101158	0.163842	0.019672
RB07	KJ744552.1:2-658 Aname mellosa voucher T103255	0.163842	0.019672
RB07	KJ744562.1:2-658 Aname mellosa voucher T103270	0.163842	0.019672
RB07	KJ744611.1 Aname mellosa T10585	0.163842	0.019672

Mt Gibson specimen	Reference specimen	p-distance	SE
RB07	KJ744650.1:1-658 Aname mellosa voucher T107181	0.163842	0.019672
RB07	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB07	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB07	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB07	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB07	KJ745051.1 Aname mellosa T122823	0.163842	0.019672
RB07	KJ745093.1 Aname mellosa T122870	0.163842	0.019672
RB07	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB07	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB07	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB07	KJ745159.1:2-658 Aname mellosa voucher T126279	0.163842	0.019672
RB07	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB07	KJ745176.1:2-658 Aname mellosa voucher T127205	0.163842	0.019672
RB07	KJ745184.1:2-658 Aname mellosa voucher T127219	0.163842	0.019672
RB07	KJ745191.1:2-658 Aname mellosa voucher T127228	0.163842	0.019672
RB07	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB14	KJ744398.1:242-658 Aname mellosa voucher T101163	0.163842	0.019672
RB14	KJ744447.1 Aname mellosa voucher T102731	0.163842	0.019672
RB14	KJ744461.1 Aname mellosa voucher T102745	0.163842	0.019672
RB14	KJ744462.1 Aname mellosa voucher T102746	0.163842	0.019672
RB14	KJ745371.1 Aname mellosa T92456	0.163842	0.019672
RB14	KJ745468.1 Aname sp. MYG366 T98766	0.163842	0.019672
RB14	KJ745469.1 Aname sp. MYG366 T98768	0.163842	0.019672
RB14	KJ745474.1 Aname sp. MYG366 T98774	0.163842	0.019672
RB14	KJ745477.1 Aname sp. MYG366 T98869	0.163842	0.019672
RB49	KJ744394.1 Aname mellosa T101158	0.163842	0.019672
RB49	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB49	KJ744650.1:1-658 Aname mellosa voucher T107181	0.163842	0.019672
RB49	KJ744651.1 Aname mellosa T107182	0.163842	0.019672
RB49	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB49	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB49	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB49	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB49	KJ745051.1 Aname mellosa T122823	0.163842	0.019672
RB49	KJ745093.1 Aname mellosa T122870	0.163842	0.019672
RB49	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB49	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB49	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB49	KJ745159.1:2-658 Aname mellosa voucher T126279	0.163842	0.019672
RB49	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB10	KJ744394.1 Aname mellosa T101158	0.163842	0.019672
RB10	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB10	KJ744650.1:1-658 Aname mellosa voucher T107181	0.163842	0.019672
RB10	KJ744651.1 Aname mellosa T107182	0.163842	0.019672
RB10	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB10	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB10	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB10	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB10	KJ745051.1 Aname mellosa T122823	0.163842	0.019672
RB10	KJ745093.1 Aname mellosa T122870	0.163842	0.019672
RB10	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB10	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB10	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB10	KJ745159.1:2-658 Aname mellosa voucher T126279	0.163842	0.019672
RB10	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB01	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.163842	0.019672
RB01	KJ744398.1:242-658 Aname mellosa voucher T101163	0.163842	0.019672
RB01	KJ744651.1 Aname mellosa T107182	0.163842	0.019672
RB01	KJ744717.1 Aname sp. MYG001 T110195	0.163842	0.019672
RB01	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.163842	0.019672
RB01	KJ744775.1:239-658 Aname mellosa voucher T113629	0.163842	0.019672
RB01	KJ744785.1:239-658 Aname mellosa voucher T113642	0.163842	0.019672
RB01	KJ744788.1:239-658 Aname mellosa voucher T113648	0.163842	0.019672
RB01	KJ744791.1:239-658 Aname mellosa voucher T113654	0.163842	0.019672
RB01	KJ744803.1:2-658 Aname mellosa voucher T113666	0.163842	0.019672
RB01	KJ744987.1 Aname mellosa T122215	0.163842	0.019672
RB01	KJ745004.1:2-658 Aname mellosa voucher T122242	0.163842	0.019672
RB01	KJ745172.1:2-658 Aname mellosa voucher T127198	0.163842	0.019672
RB01	KJ745467.1 Aname sp. MYG366 T98765	0.163842	0.019672
RB20	KJ744394.1 Aname mellosa T101158	0.163842	0.019672
RB20	KJ744611.1 Aname mellosa T10585	0.163842	0.019672
RB20	KJ744650.1:1-658 Aname mellosa voucher T107181	0.163842	0.019672
RB20	KJ744661.1:240-658 Aname mellosa voucher T107942	0.163842	0.019672
RB20	KJ744669.1:242-658 Aname mellosa voucher T107968	0.163842	0.019672
RB20	KJ744990.1:240-658 Aname mellosa voucher T122219	0.163842	0.019672
RB20	KJ745012.1 Aname mellosa T122263	0.163842	0.019672
RB20	KJ745051.1 Aname mellosa T122823	0.163842	0.019672
RB20	KJ745093.1 Aname mellosa T122870	0.163842	0.019672
RB20	KJ745134.1:242-658 Aname mellosa voucher T126250	0.163842	0.019672
RB20	KJ745143.1:242-658 Aname mellosa voucher T126259	0.163842	0.019672
RB20	KJ745146.1:2-658 Aname mellosa voucher T126262	0.163842	0.019672
RB20	KJ745159.1:2-658 Aname mellosa voucher T126279	0.163842	0.019672
RB20	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB20	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB04	KJ745004.1:2-658 Aname mellosa voucher T122242	0.166667	0.019808
RB04	KJ745012.1 Aname mellosa T122263	0.166667	0.019808

Mt Gibson specimen	Reference specimen	p-distance	SE
RB05	KJ744461.1 Aname mellosa voucher T102745	0.166667	0.019808
RB07	KJ744491.1 Aname mellosa T103177	0.166667	0.019808
RB07	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB07	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB49	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB49	KJ745203.1 Aname sp. MYG342 T52181	0.166667	0.019808
RB10	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB10	KJ745203.1 Aname sp. MYG342 T52181	0.166667	0.019808
RB01	KJ745146.1:2-658 Aname mellosa voucher T126262	0.166667	0.019808
RB20	KJ744491.1 Aname mellosa T103177	0.166667	0.019808
RB20	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB20	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB04	KJ744990.1:240-658 Aname mellosa voucher T122219	0.166667	0.019808
RB05	KJ744447.1 Aname mellosa voucher T102731	0.166667	0.019808
RB05	KJ744462.1 Aname mellosa voucher T102746	0.166667	0.019808
RB05	KJ744612.1 Aname sp. MYG339 voucher T105852	0.166667	0.019808
RB05	KJ744615.1 Aname sp. MYG339 voucher T105858	0.166667	0.019808
RB05	KJ744616.1 Aname sp. MYG339 voucher T105859	0.166667	0.019808
RB05	KJ744635.1 Aname sp. MYG339 voucher T105893	0.166667	0.019808
RB05	KJ744643.1 Aname sp. MYG339 voucher T105906	0.166667	0.019808
RB05	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.166667	0.019808
RB07	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB07	KJ744398.1:242-658 Aname mellosa voucher T101163	0.166667	0.019808
RB07	KJ744499.1 Aname sp. MYG339 voucher T103191	0.166667	0.019808
RB07	KJ744625.1 Aname sp. MYG339 voucher T105873	0.166667	0.019808
RB07	KJ744630.1 Aname mellosa T105886	0.166667	0.019808
RB07	KJ744638.1 Aname sp. MYG339 voucher T105900	0.166667	0.019808
RB07	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB07	KJ744977.1:2-658 Aname mellosa voucher T122200	0.166667	0.019808
RB07	KJ745168.1 Aname mellosa T126296	0.166667	0.019808
RB07	KJ745203.1 Aname sp. MYG342 T52181	0.166667	0.019808
RB07	KJ745365.1 Aname mellosa T92127	0.166667	0.019808
RB07	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB07	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB14	KJ744445.1 Aname mellosa voucher T102729	0.166667	0.019808
RB14	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.166667	0.019808
RB14	KJ744901.1 Aname sp. MYG331 T118789	0.166667	0.019808
RB14	KJ744902.1 Aname sp. MYG331 T118791	0.166667	0.019808
RB14	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.166667	0.019808
RB14	KJ745203.1 Aname sp. MYG342 T52181	0.166667	0.019808
RB49	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.166667	0.019808
RB49	KJ744491.1 Aname mellosa T103177	0.166667	0.019808
RB49	KJ744630.1 Aname mellosa T105886	0.166667	0.019808
RB49	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB49	KJ744977.1:2-658 Aname mellosa voucher T122200	0.166667	0.019808
RB49	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB49	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB49	KJ745168.1 Aname mellosa T126296	0.166667	0.019808
RB49	KJ745365.1 Aname mellosa T92127	0.166667	0.019808
RB49	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB49	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB10	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.166667	0.019808
RB10	KJ744491.1 Aname mellosa T103177	0.166667	0.019808
RB10	KJ744630.1 Aname mellosa T105886	0.166667	0.019808
RB10	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB10	KJ744977.1:2-658 Aname mellosa voucher T122200	0.166667	0.019808
RB10	KJ745153.1:242-658 Aname mellosa voucher T126271	0.166667	0.019808
RB10	KJ745160.1:242-658 Aname mellosa voucher T126280	0.166667	0.019808
RB10	KJ745168.1 Aname mellosa T126296	0.166667	0.019808
RB10	KJ745365.1 Aname mellosa T92127	0.166667	0.019808
RB10	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB10	KJ745396.1 Aname mellosa T95400	0.166667	0.019808
RB01	KJ744394.1 Aname mellosa T101158	0.166667	0.019808
RB01	KJ744611.1 Aname mellosa T10585	0.166667	0.019808
RB01	KJ744650.1:1-658 Aname mellosa voucher T107181	0.166667	0.019808
RB01	KJ744661.1:240-658 Aname mellosa voucher T107942	0.166667	0.019808
RB01	KJ744669.1:242-658 Aname mellosa voucher T107968	0.166667	0.019808
RB01	KJ744990.1:240-658 Aname mellosa voucher T122219	0.166667	0.019808
RB01	KJ745012.1 Aname mellosa T122263	0.166667	0.019808
RB01	KJ745051.1 Aname mellosa T122823	0.166667	0.019808
RB01	KJ745093.1 Aname mellosa T122870	0.166667	0.019808
RB01	KJ745134.1:242-658 Aname mellosa voucher T126250	0.166667	0.019808
RB01	KJ745143.1:242-658 Aname mellosa voucher T126259	0.166667	0.019808
RB01	KJ745159.1:2-658 Aname mellosa voucher T126279	0.166667	0.019808
RB01	KJ745170.1 Aname mellosa T126301	0.166667	0.019808
RB01	KJ745198.1:1-658 Aname mainae voucher T42354	0.166667	0.019808
RB20	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.166667	0.019808
RB20	KJ744499.1 Aname sp. MYG339 voucher T103191	0.166667	0.019808
RB20	KJ744630.1 Aname mellosa T105886	0.166667	0.019808
RB20	KJ744926.1:2-658 Aname mellosa voucher T119710	0.166667	0.019808
RB20	KJ744977.1:2-658 Aname mellosa voucher T122200	0.166667	0.019808
RB20	KJ745168.1 Aname mellosa T126296	0.166667	0.019808
RB20	KJ745203.1 Aname sp. MYG342 T52181	0.166667	0.019808
RB20	KJ745365.1 Aname mellosa T92127	0.166667	0.019808
RB20	KJ745370.1 Aname mellosa T92455	0.166667	0.019808
RB20	KJ745396.1 Aname mellosa T95400	0.166667	0.019808

Mt Gibson specimen	Reference specimen	p-distance	SE
RB04	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB04	KJ744461.1 Aname mellosa voucher T102745	0.169492	0.019941
RB04	KJ744462.1 Aname mellosa voucher T102746	0.169492	0.019941
RB04	KJ744901.1 Aname sp. MYG331 T118789	0.169492	0.019941
RB04	KJ744902.1 Aname sp. MYG331 T118791	0.169492	0.019941
RB04	KJ745467.1 Aname sp. MYG366 T98765	0.169492	0.019941
RB05	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.169492	0.019941
RB05	KJ744445.1 Aname mellosa voucher T102729	0.169492	0.019941
RB05	KJ744625.1 Aname sp. MYG339 voucher T105873	0.169492	0.019941
RB05	KJ744637.1 Aname sp. MYG339 voucher T105899	0.169492	0.019941
RB05	KJ744638.1 Aname sp. MYG339 voucher T105900	0.169492	0.019941
RB05	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.169492	0.019941
RB05	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB05	KJ745396.1 Aname mellosa T95400	0.169492	0.019941
RB07	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB07	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB07	KJ744461.1 Aname mellosa voucher T102745	0.169492	0.019941
RB07	KJ744462.1 Aname mellosa voucher T102746	0.169492	0.019941
RB07	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB07	KJ744615.1 Aname sp. MYG339 voucher T105858	0.169492	0.019941
RB07	KJ744616.1 Aname sp. MYG339 voucher T105859	0.169492	0.019941
RB07	KJ744635.1 Aname sp. MYG339 voucher T105893	0.169492	0.019941
RB07	KJ744643.1 Aname sp. MYG339 voucher T105906	0.169492	0.019941
RB07	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.169492	0.019941
RB07	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.169492	0.019941
RB07	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB14	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.169492	0.019941
RB14	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB14	KJ744615.1 Aname sp. MYG339 voucher T105858	0.169492	0.019941
RB14	KJ744616.1 Aname sp. MYG339 voucher T105859	0.169492	0.019941
RB14	KJ744635.1 Aname sp. MYG339 voucher T105893	0.169492	0.019941
RB14	KJ744643.1 Aname sp. MYG339 voucher T105906	0.169492	0.019941
RB14	KJ744909.1 Aname sp. MYG331 T118805	0.169492	0.019941
RB14	KJ744910.1 Aname sp. MYG331 T118811	0.169492	0.019941
RB14	KJ745395.1 Aname mellosa voucher T95399	0.169492	0.019941
RB14	KJ745467.1 Aname sp. MYG366 T98765	0.169492	0.019941
RB49	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB49	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB49	KJ744461.1 Aname mellosa voucher T102745	0.169492	0.019941
RB49	KJ744462.1 Aname mellosa voucher T102746	0.169492	0.019941
RB49	KJ745198.1:1-658 Aname mainae voucher T42354	0.169492	0.019941
RB49	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB10	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB10	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB10	KJ744461.1 Aname mellosa voucher T102745	0.169492	0.019941
RB10	KJ744462.1 Aname mellosa voucher T102746	0.169492	0.019941
RB10	KJ745198.1:1-658 Aname mainae voucher T42354	0.169492	0.019941
RB10	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB01	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.169492	0.019941
RB01	KJ744491.1 Aname mellosa T103177	0.169492	0.019941
RB01	KJ744499.1 Aname sp. MYG339 voucher T103191	0.169492	0.019941
RB01	KJ744630.1 Aname mellosa T105886	0.169492	0.019941
RB01	KJ744926.1:2-658 Aname mellosa voucher T119710	0.169492	0.019941
RB01	KJ744977.1:2-658 Aname mellosa voucher T122200	0.169492	0.019941
RB01	KJ745153.1:242-658 Aname mellosa voucher T126271	0.169492	0.019941
RB01	KJ745160.1:242-658 Aname mellosa voucher T126280	0.169492	0.019941
RB01	KJ745168.1 Aname mellosa T126296	0.169492	0.019941
RB01	KJ745203.1 Aname sp. MYG342 T52181	0.169492	0.019941
RB01	KJ745365.1 Aname mellosa T92127	0.169492	0.019941
RB01	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB01	KJ745396.1 Aname mellosa T95400	0.169492	0.019941
RB20	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.169492	0.019941
RB20	KJ744447.1 Aname mellosa voucher T102731	0.169492	0.019941
RB20	KJ744461.1 Aname mellosa voucher T102745	0.169492	0.019941
RB20	KJ744462.1 Aname mellosa voucher T102746	0.169492	0.019941
RB20	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB20	KJ744615.1 Aname sp. MYG339 voucher T105858	0.169492	0.019941
RB20	KJ744616.1 Aname sp. MYG339 voucher T105859	0.169492	0.019941
RB20	KJ744635.1 Aname sp. MYG339 voucher T105893	0.169492	0.019941
RB20	KJ744643.1 Aname sp. MYG339 voucher T105906	0.169492	0.019941
RB20	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.169492	0.019941
RB20	KJ745398.1 Aname mellosa T95402	0.169492	0.019941
RB04	KJ744445.1 Aname mellosa voucher T102729	0.172316	0.020072
RB04	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.172316	0.020072
RB04	KJ744909.1 Aname sp. MYG331 T118805	0.172316	0.020072
RB04	KJ744910.1 Aname sp. MYG331 T118811	0.172316	0.020072
RB04	KJ745203.1 Aname sp. MYG342 T52181	0.172316	0.020072
RB05	KJ744618.1 Aname sp. MYG339 voucher T105862	0.172316	0.020072
RB07	KJ744445.1 Aname mellosa voucher T102729	0.172316	0.020072
RB07	KJ744901.1 Aname sp. MYG331 T118789	0.172316	0.020072
RB07	KJ744902.1 Aname sp. MYG331 T118791	0.172316	0.020072
RB14	KJ745231.1 Aname sp. MYG351 T74238	0.172316	0.020072
RB14	KJ745232.1 Aname sp. MYG351 T74241	0.172316	0.020072
RB14	KJ745233.1 Aname sp. MYG351 T74247	0.172316	0.020072
RB14	KJ745287.1 Aname sp. MYG351 T82303	0.172316	0.020072
RB14	KJ745293.1 Aname sp. MYG351 T82309	0.172316	0.020072

Mt Gibson specimen	Reference specimen	p-distance	SE
RB49	KJ744445.1 Aname mellosa voucher T102729	0.172316	0.020072
RB49	KJ744901.1 Aname sp. MYG331 T118789	0.172316	0.020072
RB49	KJ744902.1 Aname sp. MYG331 T118791	0.172316	0.020072
RB49	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB10	KJ744445.1 Aname mellosa voucher T102729	0.172316	0.020072
RB10	KJ744901.1 Aname sp. MYG331 T118789	0.172316	0.020072
RB10	KJ744902.1 Aname sp. MYG331 T118791	0.172316	0.020072
RB10	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB01	KJ744461.1 Aname mellosa voucher T102745	0.172316	0.020072
RB20	KJ744445.1 Aname mellosa voucher T102729	0.172316	0.020072
RB20	KJ744901.1 Aname sp. MYG331 T118789	0.172316	0.020072
RB20	KJ744902.1 Aname sp. MYG331 T118791	0.172316	0.020072
RB04	KJ744612.1 Aname sp. MYG339 voucher T105852	0.172316	0.020072
RB04	KJ744615.1 Aname sp. MYG339 voucher T105858	0.172316	0.020072
RB04	KJ744616.1 Aname sp. MYG339 voucher T105859	0.172316	0.020072
RB04	KJ744635.1 Aname sp. MYG339 voucher T105893	0.172316	0.020072
RB04	KJ744643.1 Aname sp. MYG339 voucher T105906	0.172316	0.020072
RB05	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.172316	0.020072
RB05	KJ745398.1 Aname mellosa T95402	0.172316	0.020072
RB07	KJ744637.1 Aname sp. MYG339 voucher T105899	0.172316	0.020072
RB07	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB14	KJ744499.1 Aname sp. MYG339 voucher T103191	0.172316	0.020072
RB14	KJ744625.1 Aname sp. MYG339 voucher T105873	0.172316	0.020072
RB14	KJ744637.1 Aname sp. MYG339 voucher T105899	0.172316	0.020072
RB14	KJ744638.1 Aname sp. MYG339 voucher T105900	0.172316	0.020072
RB14	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.172316	0.020072
RB14	KJ744911.1 Aname sp. MYG331 T118812	0.172316	0.020072
RB14	KJ744914.1 Aname sp. MYG331 T118818	0.172316	0.020072
RB49	KJ744499.1 Aname sp. MYG339 voucher T103191	0.172316	0.020072
RB10	KJ744499.1 Aname sp. MYG339 voucher T103191	0.172316	0.020072
RB01	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.172316	0.020072
RB01	KJ744447.1 Aname mellosa voucher T102731	0.172316	0.020072
RB01	KJ744462.1 Aname mellosa voucher T102746	0.172316	0.020072
RB01	KJ744612.1 Aname sp. MYG339 voucher T105852	0.172316	0.020072
RB01	KJ744615.1 Aname sp. MYG339 voucher T105858	0.172316	0.020072
RB01	KJ744616.1 Aname sp. MYG339 voucher T105859	0.172316	0.020072
RB01	KJ744635.1 Aname sp. MYG339 voucher T105893	0.172316	0.020072
RB01	KJ744643.1 Aname sp. MYG339 voucher T105906	0.172316	0.020072
RB01	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.172316	0.020072
RB01	KJ745398.1 Aname mellosa T95402	0.172316	0.020072
RB20	KJ744625.1 Aname sp. MYG339 voucher T105873	0.172316	0.020072
RB20	KJ744637.1 Aname sp. MYG339 voucher T105899	0.172316	0.020072
RB20	KJ744638.1 Aname sp. MYG339 voucher T105900	0.172316	0.020072
RB20	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.172316	0.020072
RB20	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB04	KJ744499.1 Aname sp. MYG339 voucher T103191	0.175141	0.020201
RB04	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB04	KJ744637.1 Aname sp. MYG339 voucher T105899	0.175141	0.020201
RB04	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB04	KJ744914.1 Aname sp. MYG331 T118818	0.175141	0.020201
RB04	KJ745231.1 Aname sp. MYG351 T74238	0.175141	0.020201
RB04	KJ745232.1 Aname sp. MYG351 T74241	0.175141	0.020201
RB04	KJ745233.1 Aname sp. MYG351 T74247	0.175141	0.020201
RB04	KJ745287.1 Aname sp. MYG351 T82303	0.175141	0.020201
RB04	KJ745293.1 Aname sp. MYG351 T82309	0.175141	0.020201
RB05	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.175141	0.020201
RB05	KJ744901.1 Aname sp. MYG331 T118789	0.175141	0.020201
RB05	KJ744902.1 Aname sp. MYG331 T118791	0.175141	0.020201
RB05	KJ745231.1 Aname sp. MYG351 T74238	0.175141	0.020201
RB05	KJ745232.1 Aname sp. MYG351 T74241	0.175141	0.020201
RB05	KJ745233.1 Aname sp. MYG351 T74247	0.175141	0.020201
RB05	KJ745287.1 Aname sp. MYG351 T82303	0.175141	0.020201
RB05	KJ745293.1 Aname sp. MYG351 T82309	0.175141	0.020201
RB05	KJ745371.1 Aname mellosa T92456	0.175141	0.020201
RB07	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.175141	0.020201
RB07	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.175141	0.020201
RB07	KJ744618.1 Aname sp. MYG339 voucher T105862	0.175141	0.020201
RB07	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.175141	0.020201
RB07	KJ744909.1 Aname sp. MYG331 T118805	0.175141	0.020201
RB07	KJ744910.1 Aname sp. MYG331 T118811	0.175141	0.020201
RB14	KJ744618.1 Aname sp. MYG339 voucher T105862	0.175141	0.020201
RB14	KJ745288.1 Aname sp. MYG351 82304	0.175141	0.020201
RB14	KJ745316.1:1-658 Aname mellosa voucher T88671	0.175141	0.020201
RB49	KJ744612.1 Aname sp. MYG339 voucher T105852	0.175141	0.020201
RB49	KJ744615.1 Aname sp. MYG339 voucher T105858	0.175141	0.020201
RB49	KJ744616.1 Aname sp. MYG339 voucher T105859	0.175141	0.020201
RB49	KJ744635.1 Aname sp. MYG339 voucher T105893	0.175141	0.020201
RB49	KJ744643.1 Aname sp. MYG339 voucher T105906	0.175141	0.020201
RB49	KJ744909.1 Aname sp. MYG331 T118805	0.175141	0.020201
RB49	KJ744910.1 Aname sp. MYG331 T118811	0.175141	0.020201
RB49	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.175141	0.020201
RB10	KJ744612.1 Aname sp. MYG339 voucher T105852	0.175141	0.020201
RB10	KJ744615.1 Aname sp. MYG339 voucher T105858	0.175141	0.020201
RB10	KJ744616.1 Aname sp. MYG339 voucher T105859	0.175141	0.020201
RB10	KJ744635.1 Aname sp. MYG339 voucher T105893	0.175141	0.020201
RB10	KJ744643.1 Aname sp. MYG339 voucher T105906	0.175141	0.020201

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ744909.1 Aname sp. MYG331 T118805	0.175141	0.020201
RB10	KJ744910.1 Aname sp. MYG331 T118811	0.175141	0.020201
RB10	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.175141	0.020201
RB01	KJ744445.1 Aname mellosa voucher T102729	0.175141	0.020201
RB01	KJ744625.1 Aname sp. MYG339 voucher T105873	0.175141	0.020201
RB01	KJ744637.1 Aname sp. MYG339 voucher T105899	0.175141	0.020201
RB01	KJ744638.1 Aname sp. MYG339 voucher T105900	0.175141	0.020201
RB01	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.175141	0.020201
RB01	KJ744901.1 Aname sp. MYG331 T118789	0.175141	0.020201
RB01	KJ744902.1 Aname sp. MYG331 T118791	0.175141	0.020201
RB01	KJ745371.1 Aname mellosa T92456	0.175141	0.020201
RB20	KJ744618.1 Aname sp. MYG339 voucher T105862	0.175141	0.020201
RB20	KJ744909.1 Aname sp. MYG331 T118805	0.175141	0.020201
RB20	KJ744910.1 Aname sp. MYG331 T118811	0.175141	0.020201
RB04	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.177966	0.020329
RB04	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB04	KJ744911.1 Aname sp. MYG331 T118812	0.177966	0.020329
RB04	KJ745288.1 Aname sp. MYG351 82304	0.177966	0.020329
RB04	KJ745314.1:2-658 Aname mellosa voucher T88668	0.177966	0.020329
RB04	KJ745316.1:1-658 Aname mellosa voucher T88671	0.177966	0.020329
RB04	KJ745395.1 Aname mellosa voucher T95399	0.177966	0.020329
RB05	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.177966	0.020329
RB05	KJ744909.1 Aname sp. MYG331 T118805	0.177966	0.020329
RB05	KJ744910.1 Aname sp. MYG331 T118811	0.177966	0.020329
RB05	KJ745288.1 Aname sp. MYG351 82304	0.177966	0.020329
RB07	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.177966	0.020329
RB07	KJ744914.1 Aname sp. MYG331 T118818	0.177966	0.020329
RB07	KJ745231.1 Aname sp. MYG351 T74238	0.177966	0.020329
RB07	KJ745232.1 Aname sp. MYG351 T74241	0.177966	0.020329
RB07	KJ745233.1 Aname sp. MYG351 T74247	0.177966	0.020329
RB07	KJ745287.1 Aname sp. MYG351 T82303	0.177966	0.020329
RB07	KJ745293.1 Aname sp. MYG351 T82309	0.177966	0.020329
RB07	KJ745314.1:2-658 Aname mellosa voucher T88668	0.177966	0.020329
RB07	KJ745488.1 Aname ellenae T98894	0.177966	0.020329
RB07	KJ745489.1 Aname ellenae T98895	0.177966	0.020329
RB14	KJ744432.1 Aname sp. MYG368 voucher T102108	0.177966	0.020329
RB14	KJ744649.1 Aname sp. MYG373 T107089	0.177966	0.020329
RB49	KJ744625.1 Aname sp. MYG339 voucher T105873	0.177966	0.020329
RB49	KJ744637.1 Aname sp. MYG339 voucher T105899	0.177966	0.020329
RB49	KJ744638.1 Aname sp. MYG339 voucher T105900	0.177966	0.020329
RB49	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.177966	0.020329
RB49	KJ744914.1 Aname sp. MYG331 T118818	0.177966	0.020329
RB10	KJ744625.1 Aname sp. MYG339 voucher T105873	0.177966	0.020329
RB10	KJ744637.1 Aname sp. MYG339 voucher T105899	0.177966	0.020329
RB10	KJ744638.1 Aname sp. MYG339 voucher T105900	0.177966	0.020329
RB10	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.177966	0.020329
RB10	KJ744914.1 Aname sp. MYG331 T118818	0.177966	0.020329
RB01	KJ744618.1 Aname sp. MYG339 voucher T105862	0.177966	0.020329
RB01	KJ744909.1 Aname sp. MYG331 T118805	0.177966	0.020329
RB01	KJ744910.1 Aname sp. MYG331 T118811	0.177966	0.020329
RB20	KJ744914.1 Aname sp. MYG331 T118818	0.177966	0.020329
RB20	KJ745231.1 Aname sp. MYG351 T74238	0.177966	0.020329
RB20	KJ745232.1 Aname sp. MYG351 T74241	0.177966	0.020329
RB20	KJ745233.1 Aname sp. MYG351 T74247	0.177966	0.020329
RB20	KJ745287.1 Aname sp. MYG351 T82303	0.177966	0.020329
RB20	KJ745293.1 Aname sp. MYG351 T82309	0.177966	0.020329
RB07	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.177966	0.020329
RB20	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.177966	0.020329
RB04	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.180791	0.020454
RB04	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.180791	0.020454
RB04	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.180791	0.020454
RB04	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.180791	0.020454
RB04	KJ745399.1 Aname sp. MYG004 voucher T95403	0.180791	0.020454
RB05	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.180791	0.020454
RB05	KJ744914.1 Aname sp. MYG331 T118818	0.180791	0.020454
RB05	KJ745314.1:2-658 Aname mellosa voucher T88668	0.180791	0.020454
RB07	KJ744610.1 Aname sp. MYG371 T105216	0.180791	0.020454
RB07	KJ744911.1 Aname sp. MYG331 T118812	0.180791	0.020454
RB07	KJ745288.1 Aname sp. MYG351 82304	0.180791	0.020454
RB07	KJ745479.1 Aname ellenae T98883	0.180791	0.020454
RB14	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.180791	0.020454
RB14	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.180791	0.020454
RB14	KJ744648.1 Aname sp. MYG373 T107087	0.180791	0.020454
RB14	KJ744917.1 Aname sp. MYG004 voucher T118822	0.180791	0.020454
RB14	KJ745399.1 Aname sp. MYG004 voucher T95403	0.180791	0.020454
RB49	KJ744618.1 Aname sp. MYG339 voucher T105862	0.180791	0.020454
RB49	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.180791	0.020454
RB49	KJ744911.1 Aname sp. MYG331 T118812	0.180791	0.020454
RB49	KJ745231.1 Aname sp. MYG351 T74238	0.180791	0.020454
RB49	KJ745232.1 Aname sp. MYG351 T74241	0.180791	0.020454
RB49	KJ745233.1 Aname sp. MYG351 T74247	0.180791	0.020454
RB49	KJ745287.1 Aname sp. MYG351 T82303	0.180791	0.020454
RB49	KJ745293.1 Aname sp. MYG351 T82309	0.180791	0.020454
RB10	KJ744618.1 Aname sp. MYG339 voucher T105862	0.180791	0.020454
RB10	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.180791	0.020454
RB10	KJ744911.1 Aname sp. MYG331 T118812	0.180791	0.020454

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ745231.1 Aname sp. MYG351 T74238	0.180791	0.020454
RB10	KJ745232.1 Aname sp. MYG351 T74241	0.180791	0.020454
RB10	KJ745233.1 Aname sp. MYG351 T74247	0.180791	0.020454
RB10	KJ745287.1 Aname sp. MYG351 T82303	0.180791	0.020454
RB10	KJ745293.1 Aname sp. MYG351 T82309	0.180791	0.020454
RB01	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.180791	0.020454
RB01	KJ744914.1 Aname sp. MYG331 T118818	0.180791	0.020454
RB01	KJ745231.1 Aname sp. MYG351 T74238	0.180791	0.020454
RB01	KJ745232.1 Aname sp. MYG351 T74241	0.180791	0.020454
RB01	KJ745233.1 Aname sp. MYG351 T74247	0.180791	0.020454
RB01	KJ745287.1 Aname sp. MYG351 T82303	0.180791	0.020454
RB01	KJ745293.1 Aname sp. MYG351 T82309	0.180791	0.020454
RB20	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.180791	0.020454
RB20	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.180791	0.020454
RB20	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.180791	0.020454
RB20	KJ744911.1 Aname sp. MYG331 T118812	0.180791	0.020454
RB20	KJ745288.1 Aname sp. MYG351 82304	0.180791	0.020454
RB04	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB04	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.183616	0.020578
RB04	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.183616	0.020578
RB04	KJ744432.1 Aname sp. MYG368 voucher T102108	0.183616	0.020578
RB04	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.183616	0.020578
RB05	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.183616	0.020578
RB05	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.183616	0.020578
RB05	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.183616	0.020578
RB05	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB05	KJ744610.1 Aname sp. MYG371 T105216	0.183616	0.020578
RB05	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB05	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB05	KJ744911.1 Aname sp. MYG331 T118812	0.183616	0.020578
RB05	KJ745395.1 Aname mellosa voucher T95399	0.183616	0.020578
RB07	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.183616	0.020578
RB07	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.183616	0.020578
RB07	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB07	KJ744432.1 Aname sp. MYG368 voucher T102108	0.183616	0.020578
RB07	KJ744609.1:1-658 Aname mellosa voucher T105213	0.183616	0.020578
RB07	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.183616	0.020578
RB07	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB07	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB07	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.183616	0.020578
RB07	KJ745316.1:1-658 Aname mellosa voucher T88671	0.183616	0.020578
RB07	KJ745395.1 Aname mellosa voucher T95399	0.183616	0.020578
RB14	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.183616	0.020578
RB14	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB14	KJ744473.1:2-658 Aname mellosa voucher T102833	0.183616	0.020578
RB14	KJ744474.1:2-658 Aname mellosa voucher T102834	0.183616	0.020578
RB14	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.183616	0.020578
RB14	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB14	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB14	KJ745314.1:2-658 Aname mellosa voucher T88668	0.183616	0.020578
RB14	KJ745488.1 Aname ellenae T98894	0.183616	0.020578
RB14	KJ745489.1 Aname ellenae T98895	0.183616	0.020578
RB49	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.183616	0.020578
RB49	KJ744432.1 Aname sp. MYG368 voucher T102108	0.183616	0.020578
RB49	KJ745288.1 Aname sp. MYG351 82304	0.183616	0.020578
RB49	KJ745314.1:2-658 Aname mellosa voucher T88668	0.183616	0.020578
RB49	KJ745395.1 Aname mellosa voucher T95399	0.183616	0.020578
RB10	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.183616	0.020578
RB10	KJ744432.1 Aname sp. MYG368 voucher T102108	0.183616	0.020578
RB10	KJ745288.1 Aname sp. MYG351 82304	0.183616	0.020578
RB10	KJ745314.1:2-658 Aname mellosa voucher T88668	0.183616	0.020578
RB10	KJ745395.1 Aname mellosa voucher T95399	0.183616	0.020578
RB01	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.183616	0.020578
RB01	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.183616	0.020578
RB01	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.183616	0.020578
RB01	KJ744911.1 Aname sp. MYG331 T118812	0.183616	0.020578
RB01	KJ745288.1 Aname sp. MYG351 82304	0.183616	0.020578
RB20	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.183616	0.020578
RB20	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.183616	0.020578
RB20	KJ744432.1 Aname sp. MYG368 voucher T102108	0.183616	0.020578
RB20	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.183616	0.020578
RB20	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.183616	0.020578
RB20	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.183616	0.020578
RB20	KJ745314.1:2-658 Aname mellosa voucher T88668	0.183616	0.020578
RB20	KJ745395.1 Aname mellosa voucher T95399	0.183616	0.020578
RB20	KJ745488.1 Aname ellenae T98894	0.183616	0.020578
RB20	KJ745489.1 Aname ellenae T98895	0.183616	0.020578
RB04	KJ744473.1:2-658 Aname mellosa voucher T102833	0.186441	0.020700
RB04	KJ744474.1:2-658 Aname mellosa voucher T102834	0.186441	0.020700
RB04	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.186441	0.020700
RB04	KJ744917.1 Aname sp. MYG004 voucher T118822	0.186441	0.020700
RB04	KJ745488.1 Aname ellenae T98894	0.186441	0.020700
RB04	KJ745489.1 Aname ellenae T98895	0.186441	0.020700
RB05	KJ744432.1 Aname sp. MYG368 voucher T102108	0.186441	0.020700
RB05	KJ744473.1:2-658 Aname mellosa voucher T102833	0.186441	0.020700
RB05	KJ744474.1:2-658 Aname mellosa voucher T102834	0.186441	0.020700

Mt Gibson specimen	Reference specimen	p-distance	SE
RB05	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB05	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.186441	0.020700
RB05	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB05	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB05	KJ745316.1:1-658 Aname mellosa voucher T88671	0.186441	0.020700
RB05	KJ745488.1 Aname ellenae T98894	0.186441	0.020700
RB05	KJ745489.1 Aname ellenae T98895	0.186441	0.020700
RB07	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB07	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB14	KJ744609.1:1-658 Aname mellosa voucher T105213	0.186441	0.020700
RB14	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB14	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB14	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB14	KJ745375.1 Aname sp. MYG034 T93314	0.186441	0.020700
RB14	KJ745479.1 Aname ellenae T98883	0.186441	0.020700
RB49	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.186441	0.020700
RB49	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.186441	0.020700
RB49	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB49	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB10	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.186441	0.020700
RB10	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.186441	0.020700
RB10	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.186441	0.020700
RB10	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB01	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.186441	0.020700
RB01	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.186441	0.020700
RB01	KJ744432.1 Aname sp. MYG368 voucher T102108	0.186441	0.020700
RB01	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.186441	0.020700
RB01	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.186441	0.020700
RB01	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.186441	0.020700
RB01	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.186441	0.020700
RB01	KJ745314.1:2-658 Aname mellosa voucher T88668	0.186441	0.020700
RB01	KJ745395.1 Aname mellosa voucher T95399	0.186441	0.020700
RB01	KJ745488.1 Aname ellenae T98894	0.186441	0.020700
RB01	KJ745489.1 Aname ellenae T98895	0.186441	0.020700
RB20	KJ744610.1 Aname sp. MYG371 T105216	0.186441	0.020700
RB20	KJ744649.1 Aname sp. MYG373 T107089	0.186441	0.020700
RB20	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.186441	0.020700
RB20	KJ745479.1 Aname ellenae T98883	0.186441	0.020700
RB04	KJ745375.1 Aname sp. MYG034 T93314	0.189266	0.020820
RB04	KJ745479.1 Aname ellenae T98883	0.189266	0.020820
RB05	KJ744649.1 Aname sp. MYG373 T107089	0.189266	0.020820
RB05	KJ745479.1 Aname ellenae T98883	0.189266	0.020820
RB01	KJ745479.1 Aname ellenae T98883	0.189266	0.020820
RB20	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.189266	0.020820
RB20	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.189266	0.020820
RB20	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.189266	0.020820
RB04	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.189266	0.020820
RB04	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.189266	0.020820
RB04	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.189266	0.020820
RB04	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.189266	0.020820
RB04	KJ744385.1:1-658 Aname mellosa voucher T100078	0.189266	0.020820
RB04	KJ744404.1 Aname sp. MYG173 T101214	0.189266	0.020820
RB04	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB04	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.189266	0.020820
RB04	KJ744648.1 Aname sp. MYG373 T107087	0.189266	0.020820
RB04	KJ745409.1 Aname sp. MYG004 voucher T96022	0.189266	0.020820
RB05	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.189266	0.020820
RB05	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.189266	0.020820
RB05	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.189266	0.020820
RB05	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.189266	0.020820
RB05	KJ744917.1 Aname sp. MYG004 voucher T118822	0.189266	0.020820
RB07	KJ744385.1:1-658 Aname mellosa voucher T100078	0.189266	0.020820
RB07	KJ744473.1:2-658 Aname mellosa voucher T102833	0.189266	0.020820
RB07	KJ744474.1:2-658 Aname mellosa voucher T102834	0.189266	0.020820
RB07	KJ744648.1 Aname sp. MYG373 T107087	0.189266	0.020820
RB07	KJ744917.1 Aname sp. MYG004 voucher T118822	0.189266	0.020820
RB07	KJ745375.1 Aname sp. MYG034 T93314	0.189266	0.020820
RB07	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB14	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.189266	0.020820
RB14	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.189266	0.020820
RB14	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.189266	0.020820
RB14	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.189266	0.020820
RB14	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.189266	0.020820
RB14	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB14	KJ745409.1 Aname sp. MYG004 voucher T96022	0.189266	0.020820
RB14	KJ745429.1 Aname sp. MYG030 voucher T96495	0.189266	0.020820
RB49	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB49	KJ744473.1:2-658 Aname mellosa voucher T102833	0.189266	0.020820
RB49	KJ744474.1:2-658 Aname mellosa voucher T102834	0.189266	0.020820
RB49	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB49	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.189266	0.020820
RB49	KJ744648.1 Aname sp. MYG373 T107087	0.189266	0.020820
RB49	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.189266	0.020820
RB49	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB49	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB49	KJ744917.1 Aname sp. MYG004 voucher T118822	0.189266	0.020820

Mt Gibson specimen	Reference specimen	p-distance	SE
RB49	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB49	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB49	KJ745488.1 Aname ellenae T98894	0.189266	0.020820
RB49	KJ745489.1 Aname ellenae T98895	0.189266	0.020820
RB10	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.189266	0.020820
RB10	KJ744473.1:2-658 Aname mellosa voucher T102833	0.189266	0.020820
RB10	KJ744474.1:2-658 Aname mellosa voucher T102834	0.189266	0.020820
RB10	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB10	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.189266	0.020820
RB10	KJ744648.1 Aname sp. MYG373 T107087	0.189266	0.020820
RB10	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.189266	0.020820
RB10	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.189266	0.020820
RB10	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.189266	0.020820
RB10	KJ744917.1 Aname sp. MYG004 voucher T118822	0.189266	0.020820
RB10	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB10	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB10	KJ745488.1 Aname ellenae T98894	0.189266	0.020820
RB10	KJ745489.1 Aname ellenae T98895	0.189266	0.020820
RB01	KJ744610.1 Aname sp. MYG371 T105216	0.189266	0.020820
RB01	KJ744649.1 Aname sp. MYG373 T107089	0.189266	0.020820
RB01	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.189266	0.020820
RB20	KJ744473.1:2-658 Aname mellosa voucher T102833	0.189266	0.020820
RB20	KJ744474.1:2-658 Aname mellosa voucher T102834	0.189266	0.020820
RB20	KJ744609.1:1-658 Aname mellosa voucher T105213	0.189266	0.020820
RB20	KJ744648.1 Aname sp. MYG373 T107087	0.189266	0.020820
RB20	KJ744917.1 Aname sp. MYG004 voucher T118822	0.189266	0.020820
RB20	KJ745316.1:1-658 Aname mellosa voucher T88671	0.189266	0.020820
RB20	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB04	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.192090	0.020938
RB04	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.192090	0.020938
RB04	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.192090	0.020938
RB04	KJ744649.1 Aname sp. MYG373 T107089	0.192090	0.020938
RB04	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.192090	0.020938
RB04	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.192090	0.020938
RB05	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.192090	0.020938
RB05	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.192090	0.020938
RB05	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.192090	0.020938
RB05	KJ744385.1:1-658 Aname mellosa voucher T100078	0.192090	0.020938
RB05	KJ744648.1 Aname sp. MYG373 T107087	0.192090	0.020938
RB05	KJ745375.1 Aname sp. MYG034 T93314	0.192090	0.020938
RB05	KJ745399.1 Aname sp. MYG004 voucher T95403	0.192090	0.020938
RB07	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.192090	0.020938
RB07	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.192090	0.020938
RB07	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.192090	0.020938
RB07	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.192090	0.020938
RB07	KJ744404.1 Aname sp. MYG173 T101214	0.192090	0.020938
RB14	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.192090	0.020938
RB14	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.192090	0.020938
RB14	KJ744385.1:1-658 Aname mellosa voucher T100078	0.192090	0.020938
RB14	KJ744404.1 Aname sp. MYG173 T101214	0.192090	0.020938
RB14	KJ744443.1 Aname mellosa voucher T102535	0.192090	0.020938
RB49	KJ744610.1 Aname sp. MYG371 T105216	0.192090	0.020938
RB49	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB49	KJ745479.1 Aname ellenae T98883	0.192090	0.020938
RB10	KJ744610.1 Aname sp. MYG371 T105216	0.192090	0.020938
RB10	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.192090	0.020938
RB10	KJ745479.1 Aname ellenae T98883	0.192090	0.020938
RB01	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.192090	0.020938
RB01	KJ744473.1:2-658 Aname mellosa voucher T102833	0.192090	0.020938
RB01	KJ744474.1:2-658 Aname mellosa voucher T102834	0.192090	0.020938
RB01	KJ744609.1:1-658 Aname mellosa voucher T105213	0.192090	0.020938
RB01	KJ744648.1 Aname sp. MYG373 T107087	0.192090	0.020938
RB01	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.192090	0.020938
RB01	KJ744917.1 Aname sp. MYG004 voucher T118822	0.192090	0.020938
RB01	KJ745316.1:1-658 Aname mellosa voucher T88671	0.192090	0.020938
RB01	KJ745399.1 Aname sp. MYG004 voucher T95403	0.192090	0.020938
RB20	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.192090	0.020938
RB20	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.192090	0.020938
RB20	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.192090	0.020938
RB20	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.192090	0.020938
RB04	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.194915	0.021054
RB04	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.194915	0.021054
RB14	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.194915	0.021054
RB14	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.194915	0.021054
RB49	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.194915	0.021054
RB49	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.194915	0.021054
RB49	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.194915	0.021054
RB49	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.194915	0.021054
RB49	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.194915	0.021054
RB49	KJ744385.1:1-658 Aname mellosa voucher T100078	0.194915	0.021054
RB49	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.194915	0.021054
RB49	KJ745375.1 Aname sp. MYG034 T93314	0.194915	0.021054
RB10	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.194915	0.021054
RB10	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.194915	0.021054
RB10	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.194915	0.021054
RB10	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.194915	0.021054

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.194915	0.021054
RB10	KJ744385.1:1-658 Aname mellosa voucher T100078	0.194915	0.021054
RB10	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.194915	0.021054
RB10	KJ745375.1 Aname sp. MYG034 T93314	0.194915	0.021054
RB20	KJ745375.1 Aname sp. MYG034 T93314	0.194915	0.021054
RB04	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.194915	0.021054
RB04	KJ744443.1 Aname mellosa voucher T102535	0.194915	0.021054
RB04	KJ744610.1 Aname sp. MYG371 T105216	0.194915	0.021054
RB05	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.194915	0.021054
RB05	KJ745429.1 Aname sp. MYG030 voucher T96495	0.194915	0.021054
RB07	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.194915	0.021054
RB07	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.194915	0.021054
RB07	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.194915	0.021054
RB07	KJ744443.1 Aname mellosa voucher T102535	0.194915	0.021054
RB14	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.194915	0.021054
RB01	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.194915	0.021054
RB01	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.194915	0.021054
RB01	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.194915	0.021054
RB01	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.194915	0.021054
RB20	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.194915	0.021054
RB20	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.194915	0.021054
RB20	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.194915	0.021054
RB20	KJ744385.1:1-658 Aname mellosa voucher T100078	0.194915	0.021054
RB04	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB04	KJ744670.1 Aname sp. MYG004 voucher T107973	0.197740	0.021169
RB04	KJ745429.1 Aname sp. MYG030 voucher T96495	0.197740	0.021169
RB05	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.197740	0.021169
RB05	KJ744404.1 Aname sp. MYG173 T101214	0.197740	0.021169
RB05	KJ744443.1 Aname mellosa voucher T102535	0.197740	0.021169
RB07	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.197740	0.021169
RB07	KJ745409.1 Aname sp. MYG004 voucher T96022	0.197740	0.021169
RB07	KJ745429.1 Aname sp. MYG030 voucher T96495	0.197740	0.021169
RB14	KJ744436.1 Aname sp. MYG004 voucher T102161	0.197740	0.021169
RB14	KJ744860.1 Aname sp. MYG004 voucher T116780	0.197740	0.021169
RB14	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB49	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.197740	0.021169
RB49	KJ745409.1 Aname sp. MYG004 voucher T96022	0.197740	0.021169
RB10	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.197740	0.021169
RB10	KJ745409.1 Aname sp. MYG004 voucher T96022	0.197740	0.021169
RB01	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.197740	0.021169
RB01	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.197740	0.021169
RB01	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.197740	0.021169
RB01	KJ744385.1:1-658 Aname mellosa voucher T100078	0.197740	0.021169
RB01	KJ745375.1 Aname sp. MYG034 T93314	0.197740	0.021169
RB20	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.197740	0.021169
RB20	KJ744404.1 Aname sp. MYG173 T101214	0.197740	0.021169
RB20	KJ745409.1 Aname sp. MYG004 voucher T96022	0.197740	0.021169
RB20	KJ745429.1 Aname sp. MYG030 voucher T96495	0.197740	0.021169
RB04	KJ744745.1 Aname sp. MYG004 voucher T113584	0.200565	0.021282
RB04	KJ744860.1 Aname sp. MYG004 voucher T116780	0.200565	0.021282
RB04	KJ744876.1 Aname sp. MYG004 voucher T116819	0.200565	0.021282
RB04	KJ745046.1 Aname sp. MYG004 voucher T122814	0.200565	0.021282
RB04	KJ745058.1 Aname sp. MYG004 voucher T122832	0.200565	0.021282
RB04	KJ745097.1 Aname sp. MYG004 voucher T122875	0.200565	0.021282
RB04	KJ745408.1 Aname sp. MYG004 voucher T96019	0.200565	0.021282
RB07	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.200565	0.021282
RB14	KJ744487.1 Aname sp. MYG365 voucher T102933	0.200565	0.021282
RB14	KJ744670.1 Aname sp. MYG004 voucher T107973	0.200565	0.021282
RB14	KJ744745.1 Aname sp. MYG004 voucher T113584	0.200565	0.021282
RB14	KJ745301.1 Aname sp. MYG365 T88596	0.200565	0.021282
RB14	KJ745302.1 Aname sp. MYG365 T88597	0.200565	0.021282
RB14	KJ745306.1 Aname sp. MYG365 T88603	0.200565	0.021282
RB14	KJ745408.1 Aname sp. MYG004 voucher T96019	0.200565	0.021282
RB49	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.200565	0.021282
RB49	KJ744443.1 Aname mellosa voucher T102535	0.200565	0.021282
RB10	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.200565	0.021282
RB10	KJ744443.1 Aname mellosa voucher T102535	0.200565	0.021282
RB01	KJ744404.1 Aname sp. MYG173 T101214	0.200565	0.021282
RB01	KJ745409.1 Aname sp. MYG004 voucher T96022	0.200565	0.021282
RB01	KJ745429.1 Aname sp. MYG030 voucher T96495	0.200565	0.021282
RB05	KJ745409.1 Aname sp. MYG004 voucher T96022	0.200565	0.021282
RB07	KJ744436.1 Aname sp. MYG004 voucher T102161	0.200565	0.021282
RB14	KJ744490.1 Aname sp. MYG004 voucher T103174	0.200565	0.021282
RB14	KJ744495.1 Aname sp. MYG004 voucher T103183	0.200565	0.021282
RB14	KJ744524.1 Aname sp. MYG004 voucher T103222	0.200565	0.021282
RB14	KJ744854.1 Aname sp. MYG004 voucher T116771	0.200565	0.021282
RB14	KJ745174.1 Aname sp. MYG004 voucher T127202	0.200565	0.021282
RB49	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.200565	0.021282
RB10	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.200565	0.021282
RB01	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.200565	0.021282
RB20	KJ744436.1 Aname sp. MYG004 voucher T102161	0.200565	0.021282
RB20	KJ744443.1 Aname mellosa voucher T102535	0.200565	0.021282
RB04	KJ744490.1 Aname sp. MYG004 voucher T103174	0.203390	0.021394
RB04	KJ744495.1 Aname sp. MYG004 voucher T103183	0.203390	0.021394
RB04	KJ744524.1 Aname sp. MYG004 voucher T103222	0.203390	0.021394
RB04	KJ744786.1 Aname sp. MYG004 voucher T113645	0.203390	0.021394

Mt Gibson specimen	Reference specimen	p-distance	SE
RB04	KJ744854.1 Aname sp. MYG004 voucher T116771	0.203390	0.021394
RB04	KJ745048.1 Aname sp. MYG004 voucher T122820	0.203390	0.021394
RB04	KJ745174.1 Aname sp. MYG004 voucher T127202	0.203390	0.021394
RB05	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.203390	0.021394
RB05	KJ744436.1 Aname sp. MYG004 voucher T102161	0.203390	0.021394
RB05	KJ744745.1 Aname sp. MYG004 voucher T113584	0.203390	0.021394
RB05	KJ744876.1 Aname sp. MYG004 voucher T116819	0.203390	0.021394
RB05	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB05	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.203390	0.021394
RB07	KJ744487.1 Aname sp. MYG365 voucher T102933	0.203390	0.021394
RB07	KJ744745.1 Aname sp. MYG004 voucher T113584	0.203390	0.021394
RB07	KJ744860.1 Aname sp. MYG004 voucher T116780	0.203390	0.021394
RB07	KJ744876.1 Aname sp. MYG004 voucher T116819	0.203390	0.021394
RB07	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB07	KJ745301.1 Aname sp. MYG365 T88596	0.203390	0.021394
RB07	KJ745302.1 Aname sp. MYG365 T88597	0.203390	0.021394
RB07	KJ745306.1 Aname sp. MYG365 T88603	0.203390	0.021394
RB07	KJ745408.1 Aname sp. MYG004 voucher T96019	0.203390	0.021394
RB14	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.203390	0.021394
RB14	KJ744493.1 Aname sp. MYG004 voucher T103179	0.203390	0.021394
RB14	KJ744526.1 Aname sp. MYG004 voucher T103224	0.203390	0.021394
RB14	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB14	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB14	KJ745046.1 Aname sp. MYG004 voucher T122814	0.203390	0.021394
RB14	KJ745058.1 Aname sp. MYG004 voucher T122832	0.203390	0.021394
RB14	KJ745097.1 Aname sp. MYG004 voucher T122875	0.203390	0.021394
RB49	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.203390	0.021394
RB49	KJ744404.1 Aname sp. MYG173 T101214	0.203390	0.021394
RB49	KJ744436.1 Aname sp. MYG004 voucher T102161	0.203390	0.021394
RB49	KJ744745.1 Aname sp. MYG004 voucher T113584	0.203390	0.021394
RB49	KJ744860.1 Aname sp. MYG004 voucher T116780	0.203390	0.021394
RB49	KJ744876.1 Aname sp. MYG004 voucher T116819	0.203390	0.021394
RB49	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB49	KJ745429.1 Aname sp. MYG030 voucher T96495	0.203390	0.021394
RB10	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.203390	0.021394
RB10	KJ744404.1 Aname sp. MYG173 T101214	0.203390	0.021394
RB10	KJ744436.1 Aname sp. MYG004 voucher T102161	0.203390	0.021394
RB10	KJ744745.1 Aname sp. MYG004 voucher T113584	0.203390	0.021394
RB10	KJ744860.1 Aname sp. MYG004 voucher T116780	0.203390	0.021394
RB10	KJ744876.1 Aname sp. MYG004 voucher T116819	0.203390	0.021394
RB10	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB10	KJ745429.1 Aname sp. MYG030 voucher T96495	0.203390	0.021394
RB01	KJ744436.1 Aname sp. MYG004 voucher T102161	0.203390	0.021394
RB01	KJ744443.1 Aname mellosa voucher T102535	0.203390	0.021394
RB20	KJ744745.1 Aname sp. MYG004 voucher T113584	0.203390	0.021394
RB20	KJ744860.1 Aname sp. MYG004 voucher T116780	0.203390	0.021394
RB20	KJ744876.1 Aname sp. MYG004 voucher T116819	0.203390	0.021394
RB20	KJ744887.1 Aname sp. MYG004 voucher T116842	0.203390	0.021394
RB20	KJ745408.1 Aname sp. MYG004 voucher T96019	0.203390	0.021394
RB04	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.206215	0.021504
RB04	KJ744487.1 Aname sp. MYG365 voucher T102933	0.206215	0.021504
RB04	KJ744493.1 Aname sp. MYG004 voucher T103179	0.206215	0.021504
RB04	KJ744526.1 Aname sp. MYG004 voucher T103224	0.206215	0.021504
RB04	KJ744887.1 Aname sp. MYG004 voucher T116842	0.206215	0.021504
RB04	KJ745132.1 Aname sp. MYG004 voucher T126248	0.206215	0.021504
RB04	KJ745156.1 Aname sp. MYG004 voucher T126274	0.206215	0.021504
RB04	KJ745163.1 Aname sp. MYG004 voucher T126285	0.206215	0.021504
RB04	KJ745301.1 Aname sp. MYG365 T88596	0.206215	0.021504
RB04	KJ745302.1 Aname sp. MYG365 T88597	0.206215	0.021504
RB04	KJ745306.1 Aname sp. MYG365 T88603	0.206215	0.021504
RB05	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB05	KJ744860.1 Aname sp. MYG004 voucher T116780	0.206215	0.021504
RB05	KJ745408.1 Aname sp. MYG004 voucher T96019	0.206215	0.021504
RB07	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.206215	0.021504
RB07	KJ744490.1 Aname sp. MYG004 voucher T103174	0.206215	0.021504
RB07	KJ744495.1 Aname sp. MYG004 voucher T103183	0.206215	0.021504
RB07	KJ744524.1 Aname sp. MYG004 voucher T103222	0.206215	0.021504
RB07	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB07	KJ744854.1 Aname sp. MYG004 voucher T116771	0.206215	0.021504
RB07	KJ745174.1 Aname sp. MYG004 voucher T127202	0.206215	0.021504
RB14	KJ744786.1 Aname sp. MYG004 voucher T113645	0.206215	0.021504
RB14	KJ745048.1 Aname sp. MYG004 voucher T122820	0.206215	0.021504
RB14	KJ745305.1 Aname sp. MYG365 voucher T88602	0.206215	0.021504
RB49	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.206215	0.021504
RB49	KJ744490.1 Aname sp. MYG004 voucher T103174	0.206215	0.021504
RB49	KJ744495.1 Aname sp. MYG004 voucher T103183	0.206215	0.021504
RB49	KJ744524.1 Aname sp. MYG004 voucher T103222	0.206215	0.021504
RB49	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB49	KJ744854.1 Aname sp. MYG004 voucher T116771	0.206215	0.021504
RB49	KJ745174.1 Aname sp. MYG004 voucher T127202	0.206215	0.021504
RB49	KJ745408.1 Aname sp. MYG004 voucher T96019	0.206215	0.021504
RB10	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.206215	0.021504
RB10	KJ744490.1 Aname sp. MYG004 voucher T103174	0.206215	0.021504
RB10	KJ744495.1 Aname sp. MYG004 voucher T103183	0.206215	0.021504
RB10	KJ744524.1 Aname sp. MYG004 voucher T103222	0.206215	0.021504
RB10	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ744854.1 Aname sp. MYG004 voucher T116771	0.206215	0.021504
RB10	KJ745174.1 Aname sp. MYG004 voucher T127202	0.206215	0.021504
RB10	KJ745408.1 Aname sp. MYG004 voucher T96019	0.206215	0.021504
RB01	KJ744745.1 Aname sp. MYG004 voucher T113584	0.206215	0.021504
RB01	KJ744860.1 Aname sp. MYG004 voucher T116780	0.206215	0.021504
RB01	KJ744876.1 Aname sp. MYG004 voucher T116819	0.206215	0.021504
RB01	KJ744887.1 Aname sp. MYG004 voucher T116842	0.206215	0.021504
RB01	KJ745408.1 Aname sp. MYG004 voucher T96019	0.206215	0.021504
RB20	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.206215	0.021504
RB20	KJ744490.1 Aname sp. MYG004 voucher T103174	0.206215	0.021504
RB20	KJ744495.1 Aname sp. MYG004 voucher T103183	0.206215	0.021504
RB20	KJ744524.1 Aname sp. MYG004 voucher T103222	0.206215	0.021504
RB20	KJ744670.1 Aname sp. MYG004 voucher T107973	0.206215	0.021504
RB20	KJ744854.1 Aname sp. MYG004 voucher T116771	0.206215	0.021504
RB20	KJ745174.1 Aname sp. MYG004 voucher T127202	0.206215	0.021504
RB20	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.206215	0.021504
RB04	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB04	KJ745016.1 Aname sp. MYG329 voucher T122273	0.209040	0.021612
RB05	KJ744487.1 Aname sp. MYG365 voucher T102933	0.209040	0.021612
RB05	KJ744490.1 Aname sp. MYG004 voucher T103174	0.209040	0.021612
RB05	KJ744495.1 Aname sp. MYG004 voucher T103183	0.209040	0.021612
RB05	KJ744524.1 Aname sp. MYG004 voucher T103222	0.209040	0.021612
RB05	KJ744854.1 Aname sp. MYG004 voucher T116771	0.209040	0.021612
RB05	KJ745174.1 Aname sp. MYG004 voucher T127202	0.209040	0.021612
RB05	KJ745301.1 Aname sp. MYG365 T88596	0.209040	0.021612
RB05	KJ745302.1 Aname sp. MYG365 T88597	0.209040	0.021612
RB05	KJ745306.1 Aname sp. MYG365 T88603	0.209040	0.021612
RB07	KJ744493.1 Aname sp. MYG004 voucher T103179	0.209040	0.021612
RB07	KJ744526.1 Aname sp. MYG004 voucher T103224	0.209040	0.021612
RB07	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.209040	0.021612
RB07	KJ745046.1 Aname sp. MYG004 voucher T122814	0.209040	0.021612
RB07	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612
RB07	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB07	KJ745305.1 Aname sp. MYG365 voucher T88602	0.209040	0.021612
RB14	KJ744892.1 Aname sp. MYG004 voucher T116863	0.209040	0.021612
RB14	KJ744960.1 Aname sp. MYG004 voucher T119998	0.209040	0.021612
RB14	KJ745132.1 Aname sp. MYG004 voucher T126248	0.209040	0.021612
RB14	KJ745156.1 Aname sp. MYG004 voucher T126274	0.209040	0.021612
RB14	KJ745163.1 Aname sp. MYG004 voucher T126285	0.209040	0.021612
RB49	KJ744493.1 Aname sp. MYG004 voucher T103179	0.209040	0.021612
RB49	KJ744526.1 Aname sp. MYG004 voucher T103224	0.209040	0.021612
RB49	KJ745046.1 Aname sp. MYG004 voucher T122814	0.209040	0.021612
RB49	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612
RB49	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB10	KJ744493.1 Aname sp. MYG004 voucher T103179	0.209040	0.021612
RB10	KJ744526.1 Aname sp. MYG004 voucher T103224	0.209040	0.021612
RB10	KJ745046.1 Aname sp. MYG004 voucher T122814	0.209040	0.021612
RB10	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612
RB10	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB01	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.209040	0.021612
RB01	KJ744490.1 Aname sp. MYG004 voucher T103174	0.209040	0.021612
RB01	KJ744495.1 Aname sp. MYG004 voucher T103183	0.209040	0.021612
RB01	KJ744524.1 Aname sp. MYG004 voucher T103222	0.209040	0.021612
RB01	KJ744670.1 Aname sp. MYG004 voucher T107973	0.209040	0.021612
RB01	KJ744854.1 Aname sp. MYG004 voucher T116771	0.209040	0.021612
RB01	KJ745174.1 Aname sp. MYG004 voucher T127202	0.209040	0.021612
RB01	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.209040	0.021612
RB20	KJ744487.1 Aname sp. MYG365 voucher T102933	0.209040	0.021612
RB20	KJ744493.1 Aname sp. MYG004 voucher T103179	0.209040	0.021612
RB20	KJ744526.1 Aname sp. MYG004 voucher T103224	0.209040	0.021612
RB20	KJ745046.1 Aname sp. MYG004 voucher T122814	0.209040	0.021612
RB20	KJ745058.1 Aname sp. MYG004 voucher T122832	0.209040	0.021612
RB20	KJ745097.1 Aname sp. MYG004 voucher T122875	0.209040	0.021612
RB20	KJ745301.1 Aname sp. MYG365 T88596	0.209040	0.021612
RB20	KJ745302.1 Aname sp. MYG365 T88597	0.209040	0.021612
RB20	KJ745306.1 Aname sp. MYG365 T88603	0.209040	0.021612
RB04	KJ745145.1 Aname sp. MYG004 voucher T126261	0.211864	0.021718
RB04	KJ745305.1 Aname sp. MYG365 voucher T88602	0.211864	0.021718
RB05	KJ744493.1 Aname sp. MYG004 voucher T103179	0.211864	0.021718
RB05	KJ744526.1 Aname sp. MYG004 voucher T103224	0.211864	0.021718
RB05	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.211864	0.021718
RB05	KJ745016.1 Aname sp. MYG329 voucher T122273	0.211864	0.021718
RB05	KJ745046.1 Aname sp. MYG004 voucher T122814	0.211864	0.021718
RB05	KJ745058.1 Aname sp. MYG004 voucher T122832	0.211864	0.021718
RB05	KJ745097.1 Aname sp. MYG004 voucher T122875	0.211864	0.021718
RB07	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB07	KJ745016.1 Aname sp. MYG329 voucher T122273	0.211864	0.021718
RB07	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718
RB14	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.211864	0.021718
RB49	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB49	KJ745016.1 Aname sp. MYG329 voucher T122273	0.211864	0.021718
RB49	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718
RB49	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.211864	0.021718
RB10	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB10	KJ745016.1 Aname sp. MYG329 voucher T122273	0.211864	0.021718
RB10	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718

Mt Gibson specimen	Reference specimen	p-distance	SE
RB10	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.211864	0.021718
RB01	KJ744487.1 Aname sp. MYG365 voucher T102933	0.211864	0.021718
RB01	KJ744493.1 Aname sp. MYG004 voucher T103179	0.211864	0.021718
RB01	KJ744526.1 Aname sp. MYG004 voucher T103224	0.211864	0.021718
RB01	KJ745046.1 Aname sp. MYG004 voucher T122814	0.211864	0.021718
RB01	KJ745058.1 Aname sp. MYG004 voucher T122832	0.211864	0.021718
RB01	KJ745097.1 Aname sp. MYG004 voucher T122875	0.211864	0.021718
RB01	KJ745301.1 Aname sp. MYG365 T88596	0.211864	0.021718
RB01	KJ745302.1 Aname sp. MYG365 T88597	0.211864	0.021718
RB01	KJ745306.1 Aname sp. MYG365 T88603	0.211864	0.021718
RB20	KJ744786.1 Aname sp. MYG004 voucher T113645	0.211864	0.021718
RB20	KJ745016.1 Aname sp. MYG329 voucher T122273	0.211864	0.021718
RB20	KJ745048.1 Aname sp. MYG004 voucher T122820	0.211864	0.021718
RB49	KJ744487.1 Aname sp. MYG365 voucher T102933	0.214689	0.021823
RB49	KJ745301.1 Aname sp. MYG365 T88596	0.214689	0.021823
RB49	KJ745302.1 Aname sp. MYG365 T88597	0.214689	0.021823
RB49	KJ745306.1 Aname sp. MYG365 T88603	0.214689	0.021823
RB10	KJ744487.1 Aname sp. MYG365 voucher T102933	0.214689	0.021823
RB10	KJ745301.1 Aname sp. MYG365 T88596	0.214689	0.021823
RB10	KJ745302.1 Aname sp. MYG365 T88597	0.214689	0.021823
RB10	KJ745306.1 Aname sp. MYG365 T88603	0.214689	0.021823
RB01	KJ745016.1 Aname sp. MYG329 voucher T122273	0.214689	0.021823
RB20	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.214689	0.021823
RB20	KJ745305.1 Aname sp. MYG365 voucher T88602	0.214689	0.021823
RB04	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.214689	0.021823
RB05	KJ744786.1 Aname sp. MYG004 voucher T113645	0.214689	0.021823
RB05	KJ744892.1 Aname sp. MYG004 voucher T116863	0.214689	0.021823
RB05	KJ745048.1 Aname sp. MYG004 voucher T122820	0.214689	0.021823
RB05	KJ745305.1 Aname sp. MYG365 voucher T88602	0.214689	0.021823
RB07	KJ744892.1 Aname sp. MYG004 voucher T116863	0.214689	0.021823
RB07	KJ745132.1 Aname sp. MYG004 voucher T126248	0.214689	0.021823
RB07	KJ745156.1 Aname sp. MYG004 voucher T126274	0.214689	0.021823
RB07	KJ745163.1 Aname sp. MYG004 voucher T126285	0.214689	0.021823
RB14	KJ745145.1 Aname sp. MYG004 voucher T126261	0.214689	0.021823
RB49	KJ744892.1 Aname sp. MYG004 voucher T116863	0.214689	0.021823
RB49	KJ745132.1 Aname sp. MYG004 voucher T126248	0.214689	0.021823
RB49	KJ745156.1 Aname sp. MYG004 voucher T126274	0.214689	0.021823
RB49	KJ745163.1 Aname sp. MYG004 voucher T126285	0.214689	0.021823
RB10	KJ744892.1 Aname sp. MYG004 voucher T116863	0.214689	0.021823
RB10	KJ745132.1 Aname sp. MYG004 voucher T126248	0.214689	0.021823
RB10	KJ745156.1 Aname sp. MYG004 voucher T126274	0.214689	0.021823
RB10	KJ745163.1 Aname sp. MYG004 voucher T126285	0.214689	0.021823
RB01	KJ744786.1 Aname sp. MYG004 voucher T113645	0.214689	0.021823
RB01	KJ745048.1 Aname sp. MYG004 voucher T122820	0.214689	0.021823
RB20	KJ744892.1 Aname sp. MYG004 voucher T116863	0.214689	0.021823
RB20	KJ745132.1 Aname sp. MYG004 voucher T126248	0.214689	0.021823
RB20	KJ745156.1 Aname sp. MYG004 voucher T126274	0.214689	0.021823
RB20	KJ745163.1 Aname sp. MYG004 voucher T126285	0.214689	0.021823
RB04	KJ744892.1 Aname sp. MYG004 voucher T116863	0.217514	0.021927
RB05	KJ744960.1 Aname sp. MYG004 voucher T119998	0.217514	0.021927
RB05	KJ745132.1 Aname sp. MYG004 voucher T126248	0.217514	0.021927
RB05	KJ745156.1 Aname sp. MYG004 voucher T126274	0.217514	0.021927
RB05	KJ745163.1 Aname sp. MYG004 voucher T126285	0.217514	0.021927
RB07	KJ744960.1 Aname sp. MYG004 voucher T119998	0.217514	0.021927
RB49	KJ744960.1 Aname sp. MYG004 voucher T119998	0.217514	0.021927
RB10	KJ744960.1 Aname sp. MYG004 voucher T119998	0.217514	0.021927
RB01	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.217514	0.021927
RB01	KJ744892.1 Aname sp. MYG004 voucher T116863	0.217514	0.021927
RB01	KJ745132.1 Aname sp. MYG004 voucher T126248	0.217514	0.021927
RB01	KJ745156.1 Aname sp. MYG004 voucher T126274	0.217514	0.021927
RB01	KJ745163.1 Aname sp. MYG004 voucher T126285	0.217514	0.021927
RB01	KJ745305.1 Aname sp. MYG365 voucher T88602	0.217514	0.021927
RB20	KJ744960.1 Aname sp. MYG004 voucher T119998	0.217514	0.021927
RB07	KJ745145.1 Aname sp. MYG004 voucher T126261	0.220339	0.022029
RB49	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.220339	0.022029
RB49	KJ745145.1 Aname sp. MYG004 voucher T126261	0.220339	0.022029
RB49	KJ745305.1 Aname sp. MYG365 voucher T88602	0.220339	0.022029
RB10	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.220339	0.022029
RB10	KJ745145.1 Aname sp. MYG004 voucher T126261	0.220339	0.022029
RB10	KJ745305.1 Aname sp. MYG365 voucher T88602	0.220339	0.022029
RB01	KJ744960.1 Aname sp. MYG004 voucher T119998	0.220339	0.022029
RB20	KJ745145.1 Aname sp. MYG004 voucher T126261	0.220339	0.022029
RB05	KJ745145.1 Aname sp. MYG004 voucher T126261	0.223164	0.022130
RB01	KJ745145.1 Aname sp. MYG004 voucher T126261	0.223164	0.022130
RB04	EU404114 Centruroides vittatus	0.245763	0.022883
RB14	EU404114 Centruroides vittatus	0.245763	0.022883
RB07	EU404114 Centruroides vittatus	0.248588	0.022971
RB05	EU404114 Centruroides vittatus	0.251412	0.023058
RB01	EU404114 Centruroides vittatus	0.251412	0.023058
RB49	EU404114 Centruroides vittatus	0.254237	0.023143
RB10	EU404114 Centruroides vittatus	0.254237	0.023143
RB20	EU404114 Centruroides vittatus	0.254237	0.023143
RB14	JF700146 Mesobuthus martensii	0.257062	0.023227
RB05	JF700146 Mesobuthus martensii	0.259887	0.023310
RB01	JF700146 Mesobuthus martensii	0.259887	0.023310
RB07	JF700146 Mesobuthus martensii	0.262712	0.023391

Mt Gibson specimen	Reference specimen	p-distance	SE
RB49	JF700146 Mesobuthus martensii	0.262712	0.023391
RB10	JF700146 Mesobuthus martensii	0.262712	0.023391
RB20	JF700146 Mesobuthus martensii	0.262712	0.023391
RB04	JF700146 Mesobuthus martensii	0.265537	0.023472

Appendix 6

Molecular p-distance of the Mt Gibson **H-158***
lineage and all reference specimens

Mt Gibson specimen	Reference specimen	p-distance	SE
RB23	KJ745488.1 Aname ellenae T98894	0.129944	0.017871
RB23	KJ745489.1 Aname ellenae T98895	0.129944	0.017871
RB23	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.132768	0.018035
RB23	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.132768	0.018035
RB24	KJ745488.1 Aname ellenae T98894	0.135593	0.018196
RB24	KJ745489.1 Aname ellenae T98895	0.135593	0.018196
RB16	KJ745488.1 Aname ellenae T98894	0.135593	0.018196
RB16	KJ745489.1 Aname ellenae T98895	0.135593	0.018196
RB23	KJ745479.1 Aname ellenae T98883	0.138418	0.018355
RB24	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.138418	0.018355
RB24	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.138418	0.018355
RB16	JQ772139.1 Aname sp. 2 MGR-2012 T98892	0.138418	0.018355
RB16	JQ772141.1 Aname sp. 2 MGR-2012 T98897	0.138418	0.018355
RB23	KJ745375.1 Aname sp. MYG034 T93314	0.141243	0.018510
RB24	KJ745479.1 Aname ellenae T98883	0.144068	0.018664
RB16	KJ745479.1 Aname ellenae T98883	0.144068	0.018664
RB23	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.146893	0.018815
RB24	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB16	KJ745375.1 Aname sp. MYG034 T93314	0.146893	0.018815
RB23	KJ745203.1 Aname sp. MYG342 T52181	0.149718	0.018963
RB23	KJ745231.1 Aname sp. MYG351 T74238	0.149718	0.018963
RB23	KJ745232.1 Aname sp. MYG351 T74241	0.149718	0.018963
RB23	KJ745233.1 Aname sp. MYG351 T74247	0.149718	0.018963
RB23	KJ745287.1 Aname sp. MYG351 T82303	0.149718	0.018963
RB23	KJ745293.1 Aname sp. MYG351 T82309	0.149718	0.018963
RB23	KJ745429.1 Aname sp. MYG030 voucher T96495	0.149718	0.018963
RB24	KJ745203.1 Aname sp. MYG342 T52181	0.149718	0.018963
RB16	KJ745203.1 Aname sp. MYG342 T52181	0.149718	0.018963
RB23	KJ745288.1 Aname sp. MYG351 82304	0.152542	0.019110
RB24	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.152542	0.019110
RB16	JQ772137.1 Aname sp. 2 MGR-2012 T98773	0.152542	0.019110
RB23	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB24	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB24	KJ745231.1 Aname sp. MYG351 T74238	0.155367	0.019254
RB24	KJ745232.1 Aname sp. MYG351 T74241	0.155367	0.019254
RB24	KJ745233.1 Aname sp. MYG351 T74247	0.155367	0.019254
RB24	KJ745287.1 Aname sp. MYG351 T82303	0.155367	0.019254
RB24	KJ745293.1 Aname sp. MYG351 T82309	0.155367	0.019254
RB24	KJ745429.1 Aname sp. MYG030 voucher T96495	0.155367	0.019254
RB16	KJ744688.1:2-658 Aname sp. MYG214 voucher T108978	0.155367	0.019254
RB16	KJ745231.1 Aname sp. MYG351 T74238	0.155367	0.019254
RB16	KJ745232.1 Aname sp. MYG351 T74241	0.155367	0.019254
RB16	KJ745233.1 Aname sp. MYG351 T74247	0.155367	0.019254
RB16	KJ745287.1 Aname sp. MYG351 T82303	0.155367	0.019254
RB16	KJ745293.1 Aname sp. MYG351 T82309	0.155367	0.019254
RB16	KJ745429.1 Aname sp. MYG030 voucher T96495	0.155367	0.019254
RB23	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.158192	0.019395
RB23	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.158192	0.019395
RB23	KJ745296.1 Aname sp. MYG364 T85262	0.158192	0.019395
RB24	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.158192	0.019395
RB24	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.158192	0.019395
RB24	KJ745288.1 Aname sp. MYG351 82304	0.158192	0.019395
RB24	KJ745296.1 Aname sp. MYG364 T85262	0.158192	0.019395
RB16	KJ744646.1:8-658 Aname sp. MYG372 voucher T107003	0.158192	0.019395
RB16	KJ744647.1:8-658 Aname sp. MYG372 voucher T107004	0.158192	0.019395
RB16	KJ745288.1 Aname sp. MYG351 82304	0.158192	0.019395
RB16	KJ745296.1 Aname sp. MYG364 T85262	0.158192	0.019395
RB23	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.161017	0.019535
RB23	KJ744499.1 Aname sp. MYG339 voucher T103191	0.161017	0.019535
RB23	KJ744625.1 Aname sp. MYG339 voucher T105873	0.161017	0.019535
RB23	KJ744638.1 Aname sp. MYG339 voucher T105900	0.161017	0.019535
RB24	KJ744499.1 Aname sp. MYG339 voucher T103191	0.161017	0.019535
RB24	KJ744625.1 Aname sp. MYG339 voucher T105873	0.161017	0.019535
RB24	KJ744638.1 Aname sp. MYG339 voucher T105900	0.161017	0.019535
RB16	KJ744499.1 Aname sp. MYG339 voucher T103191	0.161017	0.019535
RB16	KJ744625.1 Aname sp. MYG339 voucher T105873	0.161017	0.019535
RB16	KJ744638.1 Aname sp. MYG339 voucher T105900	0.161017	0.019535
RB23	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.163842	0.019672
RB23	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.163842	0.019672
RB23	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.163842	0.019672
RB23	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.163842	0.019672
RB23	KJ744432.1 Aname sp. MYG368 voucher T102108	0.163842	0.019672
RB23	KJ744610.1 Aname sp. MYG371 T105216	0.163842	0.019672
RB23	KJ744615.1 Aname sp. MYG339 voucher T105858	0.163842	0.019672
RB23	KJ744616.1 Aname sp. MYG339 voucher T105859	0.163842	0.019672
RB23	KJ744618.1 Aname sp. MYG339 voucher T105862	0.163842	0.019672
RB23	KJ744635.1 Aname sp. MYG339 voucher T105893	0.163842	0.019672
RB23	KJ744643.1 Aname sp. MYG339 voucher T105906	0.163842	0.019672
RB23	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB23	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.163842	0.019672
RB23	KJ744911.1 Aname sp. MYG331 T118812	0.163842	0.019672
RB23	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB23	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB24	KJ744610.1 Aname sp. MYG371 T105216	0.163842	0.019672
RB24	KJ744615.1 Aname sp. MYG339 voucher T105858	0.163842	0.019672
RB24	KJ744616.1 Aname sp. MYG339 voucher T105859	0.163842	0.019672

Mt Gibson specimen	Reference specimen	p-distance	SE
RB24	KJ744618.1 Aname sp. MYG339 voucher T105862	0.163842	0.019672
RB24	KJ744635.1 Aname sp. MYG339 voucher T105893	0.163842	0.019672
RB24	KJ744643.1 Aname sp. MYG339 voucher T105906	0.163842	0.019672
RB24	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB24	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.163842	0.019672
RB24	KJ744911.1 Aname sp. MYG331 T118812	0.163842	0.019672
RB24	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB24	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB16	KJ744610.1 Aname sp. MYG371 T105216	0.163842	0.019672
RB16	KJ744615.1 Aname sp. MYG339 voucher T105858	0.163842	0.019672
RB16	KJ744616.1 Aname sp. MYG339 voucher T105859	0.163842	0.019672
RB16	KJ744618.1 Aname sp. MYG339 voucher T105862	0.163842	0.019672
RB16	KJ744635.1 Aname sp. MYG339 voucher T105893	0.163842	0.019672
RB16	KJ744643.1 Aname sp. MYG339 voucher T105906	0.163842	0.019672
RB16	KJ744648.1 Aname sp. MYG373 T107087	0.163842	0.019672
RB16	KJ744736.1:2-658 Aname sp. MYG377 voucher T113563	0.163842	0.019672
RB16	KJ744911.1 Aname sp. MYG331 T118812	0.163842	0.019672
RB16	KJ745170.1 Aname mellosa T126301	0.163842	0.019672
RB16	KJ745198.1:1-658 Aname mainae voucher T42354	0.163842	0.019672
RB23	KJ744788.1:239-658 Aname mellosa voucher T113648	0.166667	0.019808
RB23	KJ745168.1 Aname mellosa T126296	0.166667	0.019808
RB24	KJ744788.1:239-658 Aname mellosa voucher T113648	0.166667	0.019808
RB16	KJ744788.1:239-658 Aname mellosa voucher T113648	0.166667	0.019808
RB23	KJ744637.1 Aname sp. MYG339 voucher T105899	0.166667	0.019808
RB23	KJ744901.1 Aname sp. MYG331 T118789	0.166667	0.019808
RB23	KJ744902.1 Aname sp. MYG331 T118791	0.166667	0.019808
RB23	KJ744914.1 Aname sp. MYG331 T118818	0.166667	0.019808
RB23	KJ745371.1 Aname mellosa T92456	0.166667	0.019808
RB24	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.166667	0.019808
RB24	KJ744637.1 Aname sp. MYG339 voucher T105899	0.166667	0.019808
RB24	KJ744901.1 Aname sp. MYG331 T118789	0.166667	0.019808
RB24	KJ744902.1 Aname sp. MYG331 T118791	0.166667	0.019808
RB24	KJ744914.1 Aname sp. MYG331 T118818	0.166667	0.019808
RB16	JQ772146.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98426	0.166667	0.019808
RB16	KJ744637.1 Aname sp. MYG339 voucher T105899	0.166667	0.019808
RB16	KJ744901.1 Aname sp. MYG331 T118789	0.166667	0.019808
RB16	KJ744902.1 Aname sp. MYG331 T118791	0.166667	0.019808
RB16	KJ744914.1 Aname sp. MYG331 T118818	0.166667	0.019808
RB23	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.169492	0.019941
RB23	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.169492	0.019941
RB23	KJ744398.1:242-658 Aname mellosa voucher T101163	0.169492	0.019941
RB23	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB23	KJ744623.1:239-658 Aname mellosa voucher T105871	0.169492	0.019941
RB23	KJ744650.1:1-658 Aname mellosa voucher T107181	0.169492	0.019941
RB23	KJ744909.1 Aname sp. MYG331 T118805	0.169492	0.019941
RB23	KJ744910.1 Aname sp. MYG331 T118811	0.169492	0.019941
RB23	KJ744982.1 Aname mellosa T122207	0.169492	0.019941
RB23	KJ745012.1 Aname mellosa T122263	0.169492	0.019941
RB23	KJ745155.1:2-658 Aname mellosa voucher T126273	0.169492	0.019941
RB23	KJ745159.1:2-658 Aname mellosa voucher T126279	0.169492	0.019941
RB23	KJ745365.1 Aname mellosa T92127	0.169492	0.019941
RB23	KJ745370.1 Aname mellosa T92455	0.169492	0.019941
RB23	KJ745396.1 Aname mellosa T95400	0.169492	0.019941
RB24	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.169492	0.019941
RB24	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.169492	0.019941
RB24	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.169492	0.019941
RB24	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.169492	0.019941
RB24	KJ744398.1:242-658 Aname mellosa voucher T101163	0.169492	0.019941
RB24	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB24	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB24	KJ744623.1:239-658 Aname mellosa voucher T105871	0.169492	0.019941
RB24	KJ744650.1:1-658 Aname mellosa voucher T107181	0.169492	0.019941
RB24	KJ744909.1 Aname sp. MYG331 T118805	0.169492	0.019941
RB24	KJ744910.1 Aname sp. MYG331 T118811	0.169492	0.019941
RB24	KJ744982.1 Aname mellosa T122207	0.169492	0.019941
RB24	KJ745012.1 Aname mellosa T122263	0.169492	0.019941
RB24	KJ745155.1:2-658 Aname mellosa voucher T126273	0.169492	0.019941
RB24	KJ745159.1:2-658 Aname mellosa voucher T126279	0.169492	0.019941
RB24	KJ745365.1 Aname mellosa T92127	0.169492	0.019941
RB16	JQ772148.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98429	0.169492	0.019941
RB16	JQ772152.1 Aname sp. 3 MGR-2012 T98433	0.169492	0.019941
RB16	JQ772153.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98434	0.169492	0.019941
RB16	JQ772155.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98436	0.169492	0.019941
RB16	KJ744398.1:242-658 Aname mellosa voucher T101163	0.169492	0.019941
RB16	KJ744432.1 Aname sp. MYG368 voucher T102108	0.169492	0.019941
RB16	KJ744612.1 Aname sp. MYG339 voucher T105852	0.169492	0.019941
RB16	KJ744623.1:239-658 Aname mellosa voucher T105871	0.169492	0.019941
RB16	KJ744650.1:1-658 Aname mellosa voucher T107181	0.169492	0.019941
RB16	KJ744909.1 Aname sp. MYG331 T118805	0.169492	0.019941
RB16	KJ744910.1 Aname sp. MYG331 T118811	0.169492	0.019941
RB16	KJ744982.1 Aname mellosa T122207	0.169492	0.019941
RB16	KJ745012.1 Aname mellosa T122263	0.169492	0.019941
RB16	KJ745155.1:2-658 Aname mellosa voucher T126273	0.169492	0.019941
RB16	KJ745159.1:2-658 Aname mellosa voucher T126279	0.169492	0.019941
RB16	KJ745365.1 Aname mellosa T92127	0.169492	0.019941
RB23	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.172316	0.020072

Mt Gibson specimen	Reference specimen	p-distance	SE
RB23	KJ744651.1 Aname mellosa T107182	0.172316	0.020072
RB23	KJ744661.1:240-658 Aname mellosa voucher T107942	0.172316	0.020072
RB23	KJ744662.1:240-658 Aname mellosa voucher T107945	0.172316	0.020072
RB23	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB23	KJ744791.1:239-658 Aname mellosa voucher T113654	0.172316	0.020072
RB23	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB23	KJ744926.1:2-658 Aname mellosa voucher T119710	0.172316	0.020072
RB23	KJ744977.1:2-658 Aname mellosa voucher T122200	0.172316	0.020072
RB23	KJ745004.1:2-658 Aname mellosa voucher T122242	0.172316	0.020072
RB23	KJ745051.1 Aname mellosa T122823	0.172316	0.020072
RB23	KJ745093.1 Aname mellosa T122870	0.172316	0.020072
RB23	KJ745146.1:2-658 Aname mellosa voucher T126262	0.172316	0.020072
RB24	KJ744651.1 Aname mellosa T107182	0.172316	0.020072
RB24	KJ744661.1:240-658 Aname mellosa voucher T107942	0.172316	0.020072
RB24	KJ744662.1:240-658 Aname mellosa voucher T107945	0.172316	0.020072
RB24	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB24	KJ744791.1:239-658 Aname mellosa voucher T113654	0.172316	0.020072
RB24	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB24	KJ744926.1:2-658 Aname mellosa voucher T119710	0.172316	0.020072
RB24	KJ744977.1:2-658 Aname mellosa voucher T122200	0.172316	0.020072
RB24	KJ745004.1:2-658 Aname mellosa voucher T122242	0.172316	0.020072
RB24	KJ745051.1 Aname mellosa T122823	0.172316	0.020072
RB24	KJ745093.1 Aname mellosa T122870	0.172316	0.020072
RB24	KJ745146.1:2-658 Aname mellosa voucher T126262	0.172316	0.020072
RB24	KJ745168.1 Aname mellosa T126296	0.172316	0.020072
RB16	KJ744651.1 Aname mellosa T107182	0.172316	0.020072
RB16	KJ744661.1:240-658 Aname mellosa voucher T107942	0.172316	0.020072
RB16	KJ744662.1:240-658 Aname mellosa voucher T107945	0.172316	0.020072
RB16	KJ744785.1:239-658 Aname mellosa voucher T113642	0.172316	0.020072
RB16	KJ744791.1:239-658 Aname mellosa voucher T113654	0.172316	0.020072
RB16	KJ744803.1:2-658 Aname mellosa voucher T113666	0.172316	0.020072
RB16	KJ744926.1:2-658 Aname mellosa voucher T119710	0.172316	0.020072
RB16	KJ744977.1:2-658 Aname mellosa voucher T122200	0.172316	0.020072
RB16	KJ745004.1:2-658 Aname mellosa voucher T122242	0.172316	0.020072
RB16	KJ745051.1 Aname mellosa T122823	0.172316	0.020072
RB16	KJ745093.1 Aname mellosa T122870	0.172316	0.020072
RB16	KJ745146.1:2-658 Aname mellosa voucher T126262	0.172316	0.020072
RB16	KJ745168.1 Aname mellosa T126296	0.172316	0.020072
RB23	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.172316	0.020072
RB23	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.172316	0.020072
RB23	KJ745398.1 Aname mellosa T95402	0.172316	0.020072
RB23	KJ745468.1 Aname sp. MYG366 T98766	0.172316	0.020072
RB23	KJ745474.1 Aname sp. MYG366 T98774	0.172316	0.020072
RB23	KJ745477.1 Aname sp. MYG366 T98869	0.172316	0.020072
RB24	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.172316	0.020072
RB24	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB16	KJ745187.1 Kwonkan sp. MYG006 voucher T127223	0.172316	0.020072
RB16	KJ745371.1 Aname mellosa T92456	0.172316	0.020072
RB23	KJ744394.1 Aname mellosa T101158	0.175141	0.020201
RB23	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.175141	0.020201
RB23	KJ744491.1 Aname mellosa T103177	0.175141	0.020201
RB23	KJ744630.1 Aname mellosa T105886	0.175141	0.020201
RB23	KJ744649.1 Aname sp. MYG373 T107089	0.175141	0.020201
RB23	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB23	KJ744775.1:239-658 Aname mellosa voucher T113629	0.175141	0.020201
RB23	KJ744781.1 Aname mellosa T113636	0.175141	0.020201
RB23	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB23	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB23	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.175141	0.020201
RB23	KJ745467.1 Aname sp. MYG366 T98765	0.175141	0.020201
RB23	KJ745469.1 Aname sp. MYG366 T98768	0.175141	0.020201
RB24	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.175141	0.020201
RB24	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.175141	0.020201
RB24	KJ744394.1 Aname mellosa T101158	0.175141	0.020201
RB24	KJ744491.1 Aname mellosa T103177	0.175141	0.020201
RB24	KJ744630.1 Aname mellosa T105886	0.175141	0.020201
RB24	KJ744649.1 Aname sp. MYG373 T107089	0.175141	0.020201
RB24	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB24	KJ744775.1:239-658 Aname mellosa voucher T113629	0.175141	0.020201
RB24	KJ744781.1 Aname mellosa T113636	0.175141	0.020201
RB24	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB24	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB24	KJ745370.1 Aname mellosa T92455	0.175141	0.020201
RB24	KJ745396.1 Aname mellosa T95400	0.175141	0.020201
RB24	KJ745468.1 Aname sp. MYG366 T98766	0.175141	0.020201
RB24	KJ745474.1 Aname sp. MYG366 T98774	0.175141	0.020201
RB24	KJ745477.1 Aname sp. MYG366 T98869	0.175141	0.020201
RB16	JQ772131.1 Aname sp. 4 MGR-2012 WAM:T95401	0.175141	0.020201
RB16	JQ772147.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98427	0.175141	0.020201
RB16	KJ744394.1 Aname mellosa T101158	0.175141	0.020201
RB16	KJ744491.1 Aname mellosa T103177	0.175141	0.020201
RB16	KJ744630.1 Aname mellosa T105886	0.175141	0.020201
RB16	KJ744649.1 Aname sp. MYG373 T107089	0.175141	0.020201
RB16	KJ744669.1:242-658 Aname mellosa voucher T107968	0.175141	0.020201
RB16	KJ744775.1:239-658 Aname mellosa voucher T113629	0.175141	0.020201
RB16	KJ744781.1 Aname mellosa T113636	0.175141	0.020201

Mt Gibson specimen	Reference specimen	p-distance	SE
RB16	KJ745134.1:242-658 Aname mellosa voucher T126250	0.175141	0.020201
RB16	KJ745143.1:242-658 Aname mellosa voucher T126259	0.175141	0.020201
RB16	KJ745370.1 Aname mellosa T92455	0.175141	0.020201
RB16	KJ745396.1 Aname mellosa T95400	0.175141	0.020201
RB16	KJ745468.1 Aname sp. MYG366 T98766	0.175141	0.020201
RB16	KJ745474.1 Aname sp. MYG366 T98774	0.175141	0.020201
RB16	KJ745477.1 Aname sp. MYG366 T98869	0.175141	0.020201
RB23	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB23	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.177966	0.020329
RB23	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329
RB23	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB23	KJ744987.1 Aname mellosa T122215	0.177966	0.020329
RB23	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB23	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB24	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.177966	0.020329
RB24	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.177966	0.020329
RB24	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB24	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329
RB24	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB24	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB24	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB24	KJ745398.1 Aname mellosa T95402	0.177966	0.020329
RB16	JQ772132.1 Aname sp. 4 MGR-2012 WAM:T95402	0.177966	0.020329
RB16	JQ772144.1:239-652 Aname sp. 3 MGR-2012 voucher WAM:T98424	0.177966	0.020329
RB16	KJ744611.1 Aname mellosa T10585	0.177966	0.020329
RB16	KJ744890.1:2-658 Aname mellosa voucher T116858	0.177966	0.020329
RB16	KJ744976.1:1-658 Aname sp. MYG182 voucher T122062	0.177966	0.020329
RB16	KJ745153.1:242-658 Aname mellosa voucher T126271	0.177966	0.020329
RB16	KJ745160.1:242-658 Aname mellosa voucher T126280	0.177966	0.020329
RB16	KJ745398.1 Aname mellosa T95402	0.177966	0.020329
RB24	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.177966	0.020329
RB24	KJ745467.1 Aname sp. MYG366 T98765	0.177966	0.020329
RB24	KJ745469.1 Aname sp. MYG366 T98768	0.177966	0.020329
RB16	KJ745464.1:2-658 Aname sp. MYG185 voucher T98759	0.177966	0.020329
RB16	KJ745467.1 Aname sp. MYG366 T98765	0.177966	0.020329
RB16	KJ745469.1 Aname sp. MYG366 T98768	0.177966	0.020329
RB23	KJ744571.1 Aname mellosa T103906	0.180791	0.020454
RB23	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB23	KJ745172.1:2-658 Aname mellosa voucher T127198	0.180791	0.020454
RB23	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.180791	0.020454
RB23	KJ745184.1:2-658 Aname mellosa voucher T127219	0.180791	0.020454
RB24	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.180791	0.020454
RB24	KJ744571.1 Aname mellosa T103906	0.180791	0.020454
RB24	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB24	KJ745172.1:2-658 Aname mellosa voucher T127198	0.180791	0.020454
RB24	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.180791	0.020454
RB24	KJ745184.1:2-658 Aname mellosa voucher T127219	0.180791	0.020454
RB16	KJ744414.1:2-658 Aname sp. MYG178 voucher T102047	0.180791	0.020454
RB16	KJ744571.1 Aname mellosa T103906	0.180791	0.020454
RB16	KJ744761.1:2-658 Aname mellosa voucher T113608	0.180791	0.020454
RB16	KJ745172.1:2-658 Aname mellosa voucher T127198	0.180791	0.020454
RB16	KJ745175.1:2-658 Aname sp. MYG339 voucher T127204	0.180791	0.020454
RB16	KJ745184.1:2-658 Aname mellosa voucher T127219	0.180791	0.020454
RB23	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB23	KJ744392.1:2-658 Aname mellosa voucher T101156	0.183616	0.020578
RB23	KJ744436.1 Aname sp. MYG004 voucher T102161	0.183616	0.020578
RB23	KJ744552.1:2-658 Aname mellosa voucher T103255	0.183616	0.020578
RB23	KJ744577.1 Aname mellosa T103913	0.183616	0.020578
RB23	KJ744990.1:240-658 Aname mellosa voucher T122219	0.183616	0.020578
RB23	KJ745191.1:2-658 Aname mellosa voucher T127228	0.183616	0.020578
RB23	KJ745316.1:1-658 Aname mellosa voucher T88671	0.183616	0.020578
RB23	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB24	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB24	KJ744392.1:2-658 Aname mellosa voucher T101156	0.183616	0.020578
RB24	KJ744436.1 Aname sp. MYG004 voucher T102161	0.183616	0.020578
RB24	KJ744552.1:2-658 Aname mellosa voucher T103255	0.183616	0.020578
RB24	KJ744577.1 Aname mellosa T103913	0.183616	0.020578
RB24	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.183616	0.020578
RB24	KJ744987.1 Aname mellosa T122215	0.183616	0.020578
RB24	KJ744990.1:240-658 Aname mellosa voucher T122219	0.183616	0.020578
RB24	KJ745174.1 Aname sp. MYG004 voucher T127202	0.183616	0.020578
RB24	KJ745191.1:2-658 Aname mellosa voucher T127228	0.183616	0.020578
RB24	KJ745316.1:1-658 Aname mellosa voucher T88671	0.183616	0.020578
RB24	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578
RB16	JQ772136.1 Aname sp. 1 MGR-2012 T95404	0.183616	0.020578
RB16	KJ744392.1:2-658 Aname mellosa voucher T101156	0.183616	0.020578
RB16	KJ744436.1 Aname sp. MYG004 voucher T102161	0.183616	0.020578
RB16	KJ744552.1:2-658 Aname mellosa voucher T103255	0.183616	0.020578
RB16	KJ744577.1 Aname mellosa T103913	0.183616	0.020578
RB16	KJ744691.1:1-658 Aname sp. MYG213 voucher T108997 c	0.183616	0.020578
RB16	KJ744987.1 Aname mellosa T122215	0.183616	0.020578
RB16	KJ744990.1:240-658 Aname mellosa voucher T122219	0.183616	0.020578
RB16	KJ745174.1 Aname sp. MYG004 voucher T127202	0.183616	0.020578
RB16	KJ745191.1:2-658 Aname mellosa voucher T127228	0.183616	0.020578
RB16	KJ745316.1:1-658 Aname mellosa voucher T88671	0.183616	0.020578
RB16	KJ745408.1 Aname sp. MYG004 voucher T96019	0.183616	0.020578

Mt Gibson specimen	Reference specimen	p-distance	SE
RB23	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.186441	0.020700
RB23	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB23	KJ744487.1 Aname sp. MYG365 voucher T102933	0.186441	0.020700
RB23	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB23	KJ744860.1 Aname sp. MYG004 voucher T116780	0.186441	0.020700
RB23	KJ744917.1 Aname sp. MYG004 voucher T118822	0.186441	0.020700
RB23	KJ745046.1 Aname sp. MYG004 voucher T122814	0.186441	0.020700
RB23	KJ745058.1 Aname sp. MYG004 voucher T122832	0.186441	0.020700
RB23	KJ745097.1 Aname sp. MYG004 voucher T122875	0.186441	0.020700
RB23	KJ745132.1 Aname sp. MYG004 voucher T126248	0.186441	0.020700
RB23	KJ745156.1 Aname sp. MYG004 voucher T126274	0.186441	0.020700
RB23	KJ745163.1 Aname sp. MYG004 voucher T126285	0.186441	0.020700
RB23	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB23	KJ745299.1 Aname sp. MYG001 T86678	0.186441	0.020700
RB23	KJ745301.1 Aname sp. MYG365 T88596	0.186441	0.020700
RB23	KJ745302.1 Aname sp. MYG365 T88597	0.186441	0.020700
RB23	KJ745306.1 Aname sp. MYG365 T88603	0.186441	0.020700
RB24	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.186441	0.020700
RB24	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB24	KJ744487.1 Aname sp. MYG365 voucher T102933	0.186441	0.020700
RB24	KJ744493.1 Aname sp. MYG004 voucher T103179	0.186441	0.020700
RB24	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB24	KJ744860.1 Aname sp. MYG004 voucher T116780	0.186441	0.020700
RB24	KJ744917.1 Aname sp. MYG004 voucher T118822	0.186441	0.020700
RB24	KJ745046.1 Aname sp. MYG004 voucher T122814	0.186441	0.020700
RB24	KJ745058.1 Aname sp. MYG004 voucher T122832	0.186441	0.020700
RB24	KJ745097.1 Aname sp. MYG004 voucher T122875	0.186441	0.020700
RB24	KJ745132.1 Aname sp. MYG004 voucher T126248	0.186441	0.020700
RB24	KJ745156.1 Aname sp. MYG004 voucher T126274	0.186441	0.020700
RB24	KJ745163.1 Aname sp. MYG004 voucher T126285	0.186441	0.020700
RB24	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB24	KJ745299.1 Aname sp. MYG001 T86678	0.186441	0.020700
RB24	KJ745301.1 Aname sp. MYG365 T88596	0.186441	0.020700
RB24	KJ745302.1 Aname sp. MYG365 T88597	0.186441	0.020700
RB24	KJ745306.1 Aname sp. MYG365 T88603	0.186441	0.020700
RB16	JQ772133.1:15-658 Aname sp. 4 MGR-2012 voucher WAM:T96140	0.186441	0.020700
RB16	KJ744390.1:2-658 Aname mellosa voucher T101154	0.186441	0.020700
RB16	KJ744487.1 Aname sp. MYG365 voucher T102933	0.186441	0.020700
RB16	KJ744493.1 Aname sp. MYG004 voucher T103179	0.186441	0.020700
RB16	KJ744562.1:2-658 Aname mellosa voucher T103270	0.186441	0.020700
RB16	KJ744860.1 Aname sp. MYG004 voucher T116780	0.186441	0.020700
RB16	KJ744917.1 Aname sp. MYG004 voucher T118822	0.186441	0.020700
RB16	KJ745046.1 Aname sp. MYG004 voucher T122814	0.186441	0.020700
RB16	KJ745058.1 Aname sp. MYG004 voucher T122832	0.186441	0.020700
RB16	KJ745097.1 Aname sp. MYG004 voucher T122875	0.186441	0.020700
RB16	KJ745132.1 Aname sp. MYG004 voucher T126248	0.186441	0.020700
RB16	KJ745156.1 Aname sp. MYG004 voucher T126274	0.186441	0.020700
RB16	KJ745163.1 Aname sp. MYG004 voucher T126285	0.186441	0.020700
RB16	KJ745176.1:2-658 Aname mellosa voucher T127205	0.186441	0.020700
RB16	KJ745299.1 Aname sp. MYG001 T86678	0.186441	0.020700
RB16	KJ745301.1 Aname sp. MYG365 T88596	0.186441	0.020700
RB16	KJ745302.1 Aname sp. MYG365 T88597	0.186441	0.020700
RB16	KJ745306.1 Aname sp. MYG365 T88603	0.186441	0.020700
RB23	KJ744745.1 Aname sp. MYG004 voucher T113584	0.189266	0.020820
RB23	KJ744786.1 Aname sp. MYG004 voucher T113645	0.189266	0.020820
RB23	KJ744854.1 Aname sp. MYG004 voucher T116771	0.189266	0.020820
RB23	KJ745048.1 Aname sp. MYG004 voucher T122820	0.189266	0.020820
RB23	KJ745174.1 Aname sp. MYG004 voucher T127202	0.189266	0.020820
RB24	KJ744745.1 Aname sp. MYG004 voucher T113584	0.189266	0.020820
RB24	KJ744786.1 Aname sp. MYG004 voucher T113645	0.189266	0.020820
RB24	KJ744854.1 Aname sp. MYG004 voucher T116771	0.189266	0.020820
RB24	KJ745048.1 Aname sp. MYG004 voucher T122820	0.189266	0.020820
RB16	KJ744745.1 Aname sp. MYG004 voucher T113584	0.189266	0.020820
RB16	KJ744786.1 Aname sp. MYG004 voucher T113645	0.189266	0.020820
RB16	KJ744854.1 Aname sp. MYG004 voucher T116771	0.189266	0.020820
RB16	KJ745048.1 Aname sp. MYG004 voucher T122820	0.189266	0.020820
RB23	KJ745305.1 Aname sp. MYG365 voucher T88602	0.189266	0.020820
RB23	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB24	KJ745305.1 Aname sp. MYG365 voucher T88602	0.189266	0.020820
RB24	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB16	KJ745305.1 Aname sp. MYG365 voucher T88602	0.189266	0.020820
RB16	KJ745399.1 Aname sp. MYG004 voucher T95403	0.189266	0.020820
RB23	KJ744493.1 Aname sp. MYG004 voucher T103179	0.192090	0.020938
RB23	KJ744720.1 Aname sp. MYG001 T110201	0.192090	0.020938
RB23	KJ745145.1 Aname sp. MYG004 voucher T126261	0.192090	0.020938
RB24	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.192090	0.020938
RB24	KJ745145.1 Aname sp. MYG004 voucher T126261	0.192090	0.020938
RB16	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.192090	0.020938
RB16	KJ745145.1 Aname sp. MYG004 voucher T126261	0.192090	0.020938
RB23	KJ744490.1 Aname sp. MYG004 voucher T103174	0.194915	0.021054
RB23	KJ744495.1 Aname sp. MYG004 voucher T103183	0.194915	0.021054
RB23	KJ744524.1 Aname sp. MYG004 voucher T103222	0.194915	0.021054
RB23	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB23	KJ745409.1 Aname sp. MYG004 voucher T96022	0.194915	0.021054
RB24	KJ744490.1 Aname sp. MYG004 voucher T103174	0.194915	0.021054
RB24	KJ744495.1 Aname sp. MYG004 voucher T103183	0.194915	0.021054

Mt Gibson specimen	Reference specimen	p-distance	SE
RB24	KJ744524.1 Aname sp. MYG004 voucher T103222	0.194915	0.021054
RB24	KJ744720.1 Aname sp. MYG001 T110201	0.194915	0.021054
RB24	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB24	KJ745409.1 Aname sp. MYG004 voucher T96022	0.194915	0.021054
RB16	KJ744490.1 Aname sp. MYG004 voucher T103174	0.194915	0.021054
RB16	KJ744495.1 Aname sp. MYG004 voucher T103183	0.194915	0.021054
RB16	KJ744524.1 Aname sp. MYG004 voucher T103222	0.194915	0.021054
RB16	KJ744720.1 Aname sp. MYG001 T110201	0.194915	0.021054
RB16	KJ744887.1 Aname sp. MYG004 voucher T116842	0.194915	0.021054
RB16	KJ745409.1 Aname sp. MYG004 voucher T96022	0.194915	0.021054
RB23	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB23	KJ744447.1 Aname mellosa voucher T102731	0.194915	0.021054
RB23	KJ744670.1 Aname sp. MYG004 voucher T107973	0.194915	0.021054
RB24	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB24	KJ744447.1 Aname mellosa voucher T102731	0.194915	0.021054
RB24	KJ744670.1 Aname sp. MYG004 voucher T107973	0.194915	0.021054
RB16	KJ744404.1 Aname sp. MYG173 T101214	0.194915	0.021054
RB16	KJ744447.1 Aname mellosa voucher T102731	0.194915	0.021054
RB16	KJ744670.1 Aname sp. MYG004 voucher T107973	0.194915	0.021054
RB23	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.197740	0.021169
RB23	KJ744385.1:1-658 Aname mellosa voucher T100078	0.197740	0.021169
RB23	KJ744409.1 Aname sp. MYG001 T102040	0.197740	0.021169
RB23	KJ744526.1 Aname sp. MYG004 voucher T103224	0.197740	0.021169
RB23	KJ744666.1:2-658 Kwonkan sp. MYG338 voucher T107959	0.197740	0.021169
RB23	KJ744717.1 Aname sp. MYG001 T110195	0.197740	0.021169
RB23	KJ744718.1 Aname sp. MYG00 T110197	0.197740	0.021169
RB23	KJ744722.1 Aname sp. MYG001 T110203	0.197740	0.021169
RB23	KJ744724.1 Aname sp. MYG001 T110206	0.197740	0.021169
RB23	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB23	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169
RB23	KJ745395.1 Aname mellosa voucher T95399	0.197740	0.021169
RB24	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.197740	0.021169
RB24	KJ744385.1:1-658 Aname mellosa voucher T100078	0.197740	0.021169
RB24	KJ744526.1 Aname sp. MYG004 voucher T103224	0.197740	0.021169
RB24	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB24	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169
RB24	KJ745395.1 Aname mellosa voucher T95399	0.197740	0.021169
RB16	JQ772129.1 Aname sp. 4 MGR-2012 voucher WAM:T95399	0.197740	0.021169
RB16	KJ744385.1:1-658 Aname mellosa voucher T100078	0.197740	0.021169
RB16	KJ744526.1 Aname sp. MYG004 voucher T103224	0.197740	0.021169
RB16	KJ744876.1 Aname sp. MYG004 voucher T116819	0.197740	0.021169
RB16	KJ744892.1 Aname sp. MYG004 voucher T116863	0.197740	0.021169
RB16	KJ745395.1 Aname mellosa voucher T95399	0.197740	0.021169
RB23	KJ744412.1 Aname sp. MYG001 102044	0.200565	0.021282
RB23	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.200565	0.021282
RB23	KJ744733.1 Aname sp. MYG177 T112359	0.200565	0.021282
RB23	KJ745239.1 Aname sp. MYG177 T74755	0.200565	0.021282
RB24	KJ744409.1 Aname sp. MYG001 T102040	0.200565	0.021282
RB24	KJ744717.1 Aname sp. MYG001 T110195	0.200565	0.021282
RB24	KJ744718.1 Aname sp. MYG00 T110197	0.200565	0.021282
RB24	KJ744722.1 Aname sp. MYG001 T110203	0.200565	0.021282
RB24	KJ744724.1 Aname sp. MYG001 T110206	0.200565	0.021282
RB24	KJ745239.1 Aname sp. MYG177 T74755	0.200565	0.021282
RB16	KJ744409.1 Aname sp. MYG001 T102040	0.200565	0.021282
RB16	KJ744717.1 Aname sp. MYG001 T110195	0.200565	0.021282
RB16	KJ744718.1 Aname sp. MYG00 T110197	0.200565	0.021282
RB16	KJ744722.1 Aname sp. MYG001 T110203	0.200565	0.021282
RB16	KJ744724.1 Aname sp. MYG001 T110206	0.200565	0.021282
RB16	KJ745239.1 Aname sp. MYG177 T74755	0.200565	0.021282
RB23	KJ744960.1 Aname sp. MYG004 voucher T119998	0.200565	0.021282
RB24	KJ744960.1 Aname sp. MYG004 voucher T119998	0.200565	0.021282
RB16	KJ744960.1 Aname sp. MYG004 voucher T119998	0.200565	0.021282
RB23	KJ744462.1 Aname mellosa voucher T102746	0.203390	0.021394
RB23	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB23	KJ745240.1 Aname sp. MYG177 voucher T74758	0.203390	0.021394
RB23	KJ745242.1 Aname sp. MYG177 T76820	0.203390	0.021394
RB23	KJ745244.1 Aname sp. MYG177 T76822	0.203390	0.021394
RB23	KJ745249.1 Aname sp. MYG177 T76827	0.203390	0.021394
RB23	KJ745251.1 Aname sp. MYG177 T76829	0.203390	0.021394
RB23	KJ745257.1 Aname sp. MYG177 T77081	0.203390	0.021394
RB23	KJ745314.1:2-658 Aname mellosa voucher T88668	0.203390	0.021394
RB24	KJ744412.1 Aname sp. MYG001 102044	0.203390	0.021394
RB24	KJ744462.1 Aname mellosa voucher T102746	0.203390	0.021394
RB24	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.203390	0.021394
RB24	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB24	KJ745240.1 Aname sp. MYG177 voucher T74758	0.203390	0.021394
RB24	KJ745314.1:2-658 Aname mellosa voucher T88668	0.203390	0.021394
RB16	KJ744412.1 Aname sp. MYG001 102044	0.203390	0.021394
RB16	KJ744462.1 Aname mellosa voucher T102746	0.203390	0.021394
RB16	KJ744721.1:1-658 Aname sp. MYG001 voucher T110202	0.203390	0.021394
RB16	KJ745016.1 Aname sp. MYG329 voucher T122273	0.203390	0.021394
RB16	KJ745240.1 Aname sp. MYG177 voucher T74758	0.203390	0.021394
RB16	KJ745314.1:2-658 Aname mellosa voucher T88668	0.203390	0.021394
RB23	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.206215	0.021504
RB23	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB23	KJ744473.1:2-658 Aname mellosa voucher T102833	0.206215	0.021504

Mt Gibson specimen	Reference specimen	p-distance	SE
RB23	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.206215	0.021504
RB23	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.206215	0.021504
RB23	KJ745241.1 Aname sp. MYG177 voucher T76819	0.206215	0.021504
RB23	KJ745243.1 Aname sp. MYG177 voucher T76821	0.206215	0.021504
RB23	KJ745245.1 Aname sp. MYG177 T76823	0.206215	0.021504
RB23	KJ745246.1 Aname sp. MYG177 voucher T76824	0.206215	0.021504
RB23	KJ745247.1 Aname sp. MYG177 voucher T76825	0.206215	0.021504
RB23	KJ745248.1 Aname sp. MYG177 voucher T76826	0.206215	0.021504
RB24	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.206215	0.021504
RB24	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB24	KJ744733.1 Aname sp. MYG177 T112359	0.206215	0.021504
RB24	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.206215	0.021504
RB24	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.206215	0.021504
RB16	KJ744416.1:1-658 Aname sp. MYG079 voucher T102049	0.206215	0.021504
RB16	KJ744443.1 Aname mellosa voucher T102535	0.206215	0.021504
RB16	KJ744733.1 Aname sp. MYG177 T112359	0.206215	0.021504
RB16	KJ744817.1:2-658 Aname sp. MYG079 voucher T113817	0.206215	0.021504
RB16	KJ744823.1:2-658 Aname sp. MYG079 voucher T113823	0.206215	0.021504
RB23	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.209040	0.021612
RB24	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.209040	0.021612
RB16	KJ744815.1:2-658 Aname sp. MYG079 voucher T113815	0.209040	0.021612
RB23	KJ744461.1 Aname mellosa voucher T102745	0.209040	0.021612
RB23	KJ744474.1:2-658 Aname mellosa voucher T102834	0.209040	0.021612
RB23	KJ745256.1 Aname sp. MYG177 voucher T77080	0.209040	0.021612
RB24	KJ744461.1 Aname mellosa voucher T102745	0.209040	0.021612
RB24	KJ745242.1 Aname sp. MYG177 T76820	0.209040	0.021612
RB24	KJ745244.1 Aname sp. MYG177 T76822	0.209040	0.021612
RB24	KJ745249.1 Aname sp. MYG177 T76827	0.209040	0.021612
RB24	KJ745251.1 Aname sp. MYG177 T76829	0.209040	0.021612
RB24	KJ745257.1 Aname sp. MYG177 T77081	0.209040	0.021612
RB16	KJ744461.1 Aname mellosa voucher T102745	0.209040	0.021612
RB16	KJ745242.1 Aname sp. MYG177 T76820	0.209040	0.021612
RB16	KJ745244.1 Aname sp. MYG177 T76822	0.209040	0.021612
RB16	KJ745249.1 Aname sp. MYG177 T76827	0.209040	0.021612
RB16	KJ745251.1 Aname sp. MYG177 T76829	0.209040	0.021612
RB16	KJ745257.1 Aname sp. MYG177 T77081	0.209040	0.021612
RB23	KJ744445.1 Aname mellosa voucher T102729	0.211864	0.021718
RB24	KJ744445.1 Aname mellosa voucher T102729	0.211864	0.021718
RB24	KJ744473.1:2-658 Aname mellosa voucher T102833	0.211864	0.021718
RB24	KJ745241.1 Aname sp. MYG177 voucher T76819	0.211864	0.021718
RB24	KJ745243.1 Aname sp. MYG177 voucher T76821	0.211864	0.021718
RB24	KJ745245.1 Aname sp. MYG177 T76823	0.211864	0.021718
RB24	KJ745246.1 Aname sp. MYG177 voucher T76824	0.211864	0.021718
RB24	KJ745247.1 Aname sp. MYG177 voucher T76825	0.211864	0.021718
RB24	KJ745248.1 Aname sp. MYG177 voucher T76826	0.211864	0.021718
RB16	KJ744445.1 Aname mellosa voucher T102729	0.211864	0.021718
RB16	KJ744473.1:2-658 Aname mellosa voucher T102833	0.211864	0.021718
RB16	KJ745241.1 Aname sp. MYG177 voucher T76819	0.211864	0.021718
RB16	KJ745243.1 Aname sp. MYG177 voucher T76821	0.211864	0.021718
RB16	KJ745245.1 Aname sp. MYG177 T76823	0.211864	0.021718
RB16	KJ745246.1 Aname sp. MYG177 voucher T76824	0.211864	0.021718
RB16	KJ745247.1 Aname sp. MYG177 voucher T76825	0.211864	0.021718
RB16	KJ745248.1 Aname sp. MYG177 voucher T76826	0.211864	0.021718
RB24	KJ744474.1:2-658 Aname mellosa voucher T102834	0.214689	0.021823
RB24	KJ745256.1 Aname sp. MYG177 voucher T77080	0.214689	0.021823
RB16	KJ744474.1:2-658 Aname mellosa voucher T102834	0.214689	0.021823
RB16	KJ745256.1 Aname sp. MYG177 voucher T77080	0.214689	0.021823
RB23	KJ744609.1:1-658 Aname mellosa voucher T105213	0.220339	0.022029
RB24	KJ744609.1:1-658 Aname mellosa voucher T105213	0.220339	0.022029
RB16	KJ744609.1:1-658 Aname mellosa voucher T105213	0.220339	0.022029
RB23	EU404114 Centruroides vittatus	0.251412	0.023058
RB24	EU404114 Centruroides vittatus	0.251412	0.023058
RB16	EU404114 Centruroides vittatus	0.251412	0.023058
RB23	JF700146 Mesobuthus martensii	0.268362	0.023551
RB24	JF700146 Mesobuthus martensii	0.274011	0.023705
RB16	JF700146 Mesobuthus martensii	0.274011	0.023705