



Perth
Urban
Bushland
Fungi

Koondoola Regional Bushland Fungi Report 2006

Written and produced by
Neale L. Bougher, Roz Hart and Sarah de Bueger
Department of Environment and Conservation – Perth Urban Bushland Fungi Project



Introducing the fungi walk



Group about to set out



Examining the fungi collected



Comparing weights of some large fungi

PUBF Website : www.fungiperth.org.au



Department of
Environment and Conservation





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Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist, organisational support was provided by Roz Hart and Sarah de Bueger.

Photos and field assistance by PUBF participants

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Thirty four people attended the Perth Urban Bushland Fungi (PUBF) Project walk held at Koondoola Regional Bushland on 10 June 2006.

This walk was organised with the assistance of the Friends of Koondoola Regional Bushland. Five groups were taken foraging led by Roz Hart and Tanja Lambe; Joe Froudust and Louise Little; Phylis Robertson; Jolanda Keeble; and Margaret Langley and Anthony Francis, all leaders from the PUBF Project. Mycologist Neale Bougher identified and talked about the fungi collected at the conclusion of the walk.

This event has allowed us to produce the **first ever inventory of fungi for Koondoola Regional Bushland**. This list represents a very small portion of the fungi which are likely to be present in this bushland. Due to the nature of fungi, which fruit irregularly and intermittently, it will be necessary to conduct many such surveys over different days in the fungi season as well as in successive years to produce an accurate inventory of the fungi present in this valuable urban bushland.

Koondoola Bushland Fungi: 10 June 2006

Unusually low rainfall in the period prior to this survey severely restricted the abundance and diversity of fungi observed in the survey. Only 16 species were recorded. These include decomposer fungi such as *Mycena*, and beneficial mycorrhizal fungi such as *Russula erumpens*. Some of the fungi recorded in this survey remain unidentified pending further collections or more detailed comparative analyses. Many of the fungi could only be identified to genus level. This is because detailed taxonomic examinations are yet to be completed, or perhaps some are undescribed species.

Far more fungi are likely to occur in Koondoola Regional Bushland than those recorded in this inaugural survey. Because of the unpredictable nature of fungi fruiting, surveys need to be conducted over many years in order to capture the biodiversity of fungi present in any given area. Such inventory data can be used as a baseline to monitor changes in biodiversity at Koondoola Bushland, such as any trend towards reduction in the diversity of significant ecological groups of fungi such as mycorrhizal species, and the effects of major disturbances such as fire or disease incursions.

Life Mode Key: M = Mycorrhizal, S = Saprotropic (Decomposer), S/P = Saprotrophic and Parasitic
Life Mode is probable only as many fungi have not been tested.

Field Book Page number refers to the Perth Urban Bushland Fungi Field Book which is available for downloading from the project website at www.fungiperth.org.au

<u>Scientific Name</u>	<u>Common Name</u>	<u>Form</u>	<u>Habitat</u>	<u>Life Mode</u>	<u>Field Book Page No</u>	<u>Specimen ID</u>
<i>Amanita</i> sp.		mushroom	litter/ground	M		2004, 2005, 2007, 2010, 2018, 2030
<i>Amanita umbrinella</i>		mushroom	litter/ground	M		2017
<i>Cortinarius</i> sp.		mushroom	litter/ground	M		2014, 2015, 2031
<i>Laccaria</i> sp.		mushroom	litter/ground	M		2022
? <i>Marasmiellus</i> sp.		mushroom	litter/ground	-		2025
<i>Mycena</i> sp.		mushroom	litter/ground	S		2020
<i>Pisolithus</i> sp.	Dog Poo Fungus	puffball	litter/ground	M	L-3	2013, 2000, 2024
<i>Pycnoporus coccineus</i>	Scarlet Bracket Fungus	bracket	dead wood	S	N-8	2019, 2012
<i>Ramaria</i> sp.		coral	litter/ground	M		2021
<i>Russula</i> sp.		mushroom	litter/ground	M		2001, 2006, 2028
<i>Russula neerimeae</i> group		mushroom	litter/ground	M		2009

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<i>Russula erumpens</i>	Erupting Russula	mushroom	litter/ground	M	J-28	2011
<i>Scleroderma</i> sp.		puffball	litter/ground	M	L-4	2027
<i>Tricholoma</i> sp.		mushroom	litter/ground	S		2008, 2016, 2023
Undetermined Bolete		mushroom	litter/ground	M		2002, 2003, 2029
Undetermined Resupinate		resupinate	dead wood	M		2026

Permanent Voucher Collections

Three of the fungi collected during this event were deposited in the WA Herbarium fungi collection with the following details:

?Marasmiellus sp.

Voucher ID: BOU 200

Specimen ID: 2025

Russula erumpens

Voucher ID: BOU 201

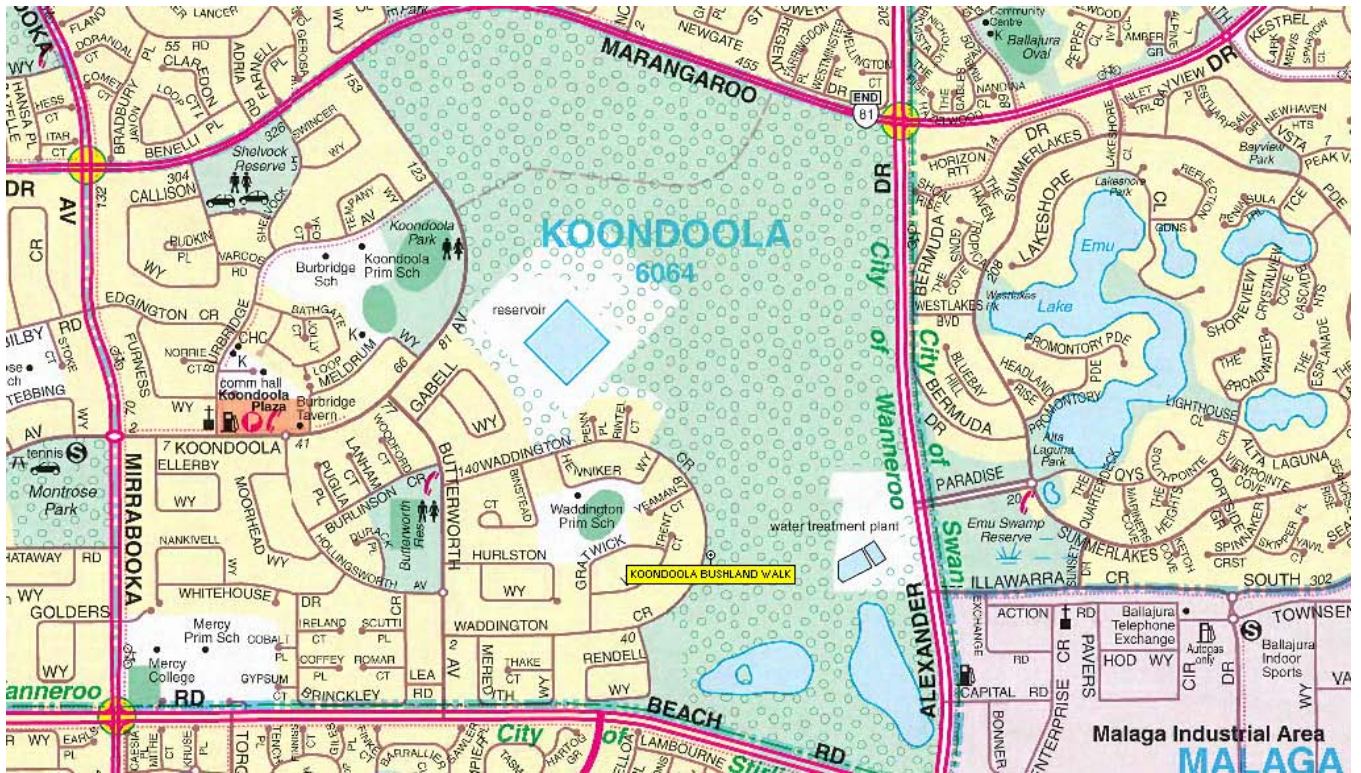
Specimen ID: 2011

Amanita umbrinella

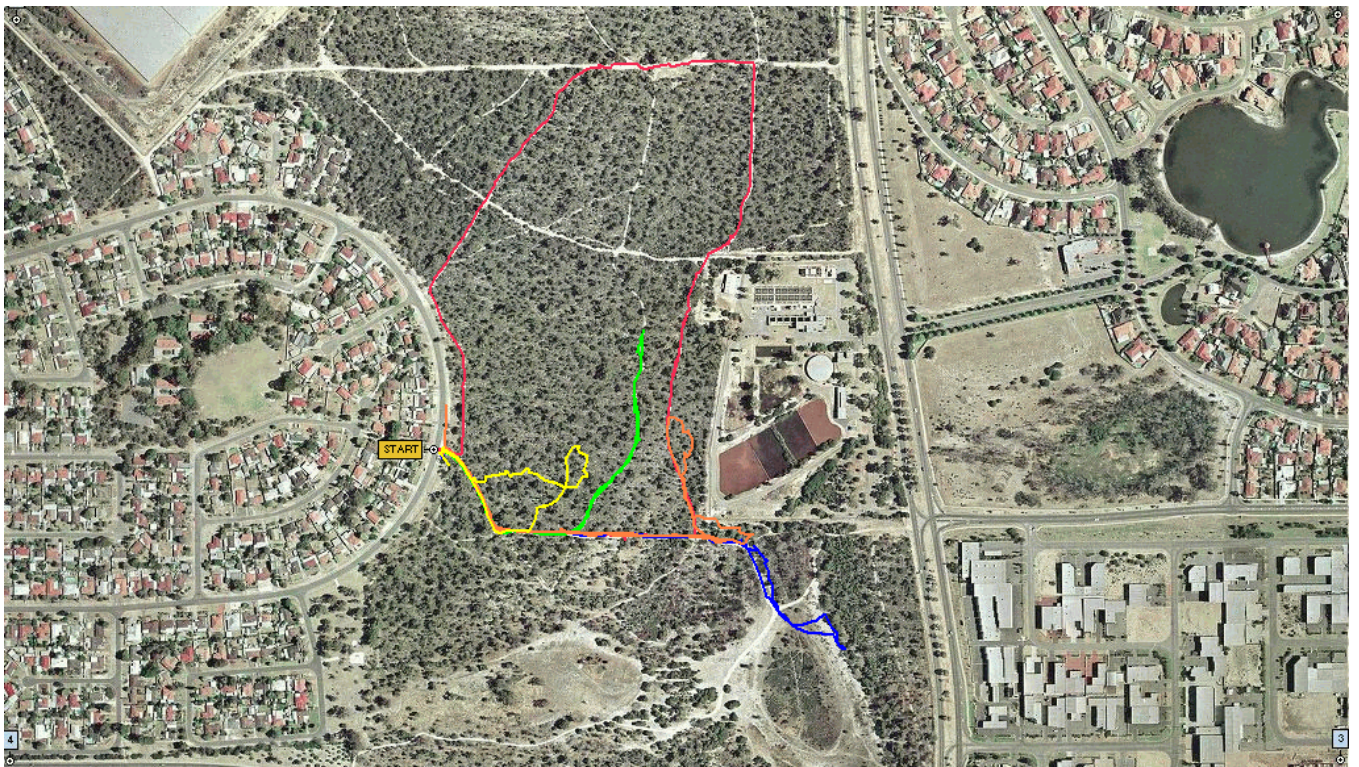
Voucher ID: BOU 202

Specimen ID: 2017

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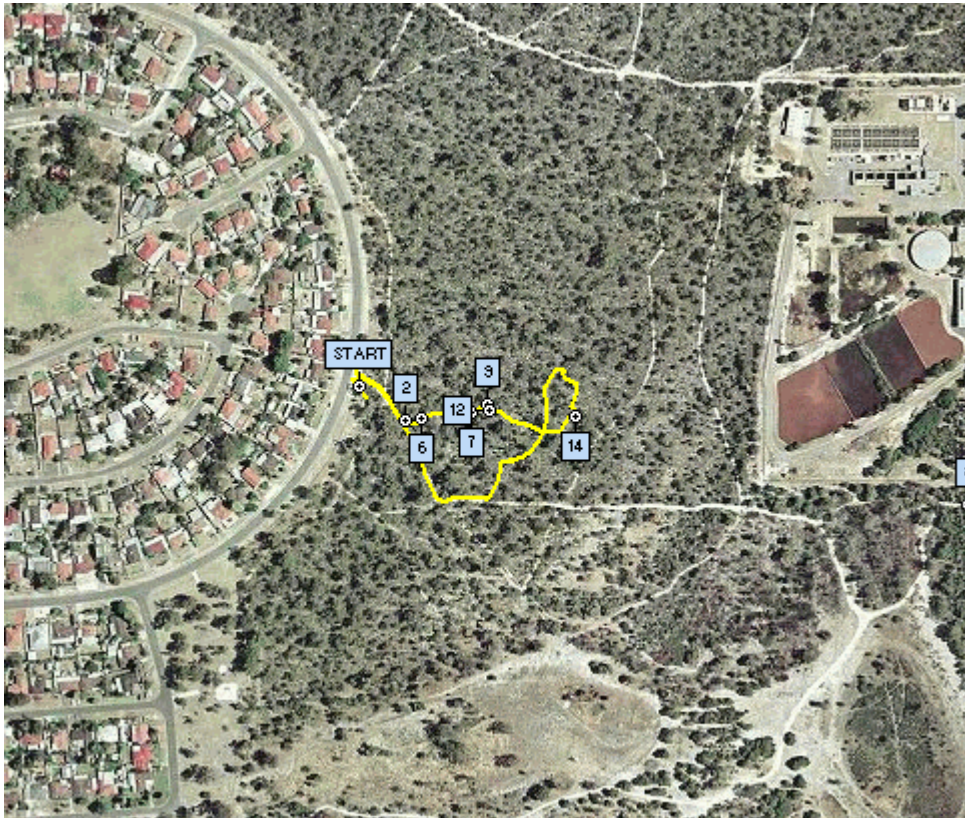
StreetExpress Map showing the location of Koondoola Regional Bushland, Bush Forever Site 201. Koondoola Regional Bushland is a Department of Environment and Conservation Reference Site.



Aerial photo showing the colour coded tracks walked by the five groups on 10 June 2006.

Georeferenced Track and Photos




Roz Hart and Tanja Lambe's group, 10 June 2006



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus name which correlates with the site on the map above.

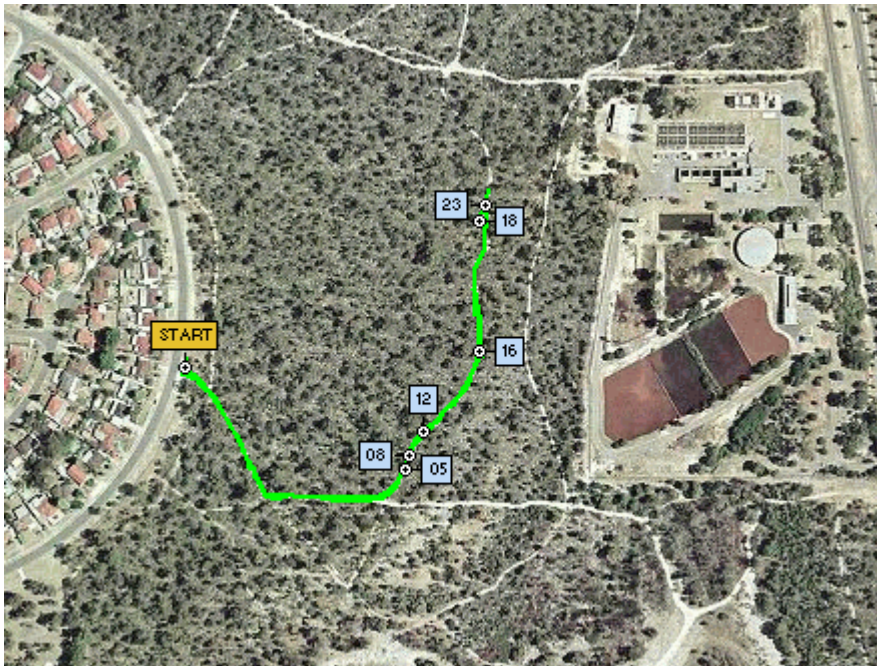
	<p>02 <i>Pisolithus</i> sp. Dog Poo Fungus Photographer Tanja Lambe <u>Specimen ID:</u> 2000</p> <p>Growing in sand amongst litter in jarrah, banksia woodland. Latitude: -31° 50' 43.79" Longitude: 115° 52' 18.65" Easting:393258 Northing: 6476135 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL02</p>
	<p>06 <i>Russula</i> sp. <u>Specimen ID:</u> 2001 Photographer Tanja Lambe</p> <p>Growing in sand amongst litter in jarrah, marri woodland. Latitude: -31° 50' 43.73" Longitude: 115° 52' 19.09" Easting:393270 Northing: 6476137 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL06</p>

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	<p>07 Undetermined Bolete Photographer Tanja Lambe <u>Specimen ID:</u> 2002</p> <p>Growing in sand in jarrah, marri woodland. Latitude: -31° 50' 43.58" Longitude: 115° 52' 20.63" Easting:393310 Northing: 6476141 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL07</p>
	<p>09 Undetermined Bolete Photographer Tanja Lambe <u>Specimen ID:</u> 2003</p> <p>Growing in sand in jarrah, marri woodland. Latitude: -31° 50' 43.38" Longitude: 115° 52' 21.12" Easting:393323 Northing: 6476148 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL09</p>
	<p>12 Amanita sp. Photographer Tanja Lambe <u>Specimen ID:</u> 2004</p> <p>Growing in sand in jarrah, banksia, sheoak woodland. Latitude: -31° 50' 43.51" Longitude: 115° 52' 21.20" Easting:393325 Northing: 6476144 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL12</p>
	<p>14 Amanita sp. Photographer Tanja Lambe <u>Specimen ID:</u> 2005</p> <p>Growing in sand in jarrah, banksia woodland. Latitude: -31° 50' 43.72" Longitude: 115° 52' 23.77" Easting:393393 Northing: 6476138 Zone: 50 Date: 10 Jun 2006 opt Image KD56_142TL14</p>

Georeferenced Track and Photos





Joe Froudust and Louise Little's group, 10 June 2006



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	<p>05 <i>Russula</i> sp. Photographer Louise Little <u>Specimen ID:</u> 2006 Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 45.14" Longitude: 115° 52' 23.88" Easting:393396 Northing: 6476094 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL05</p>
	<p>08 <i>Amanita</i> sp. Photographer Louise Little <u>Specimen ID:</u> 2007 Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 44.81" Longitude: 115° 52' 24.02" Easting:393400 Northing: 6476105 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL08</p>

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	<p>12 <i>Tricholoma</i> sp. Photographer Louise Little <u>Specimen ID:</u> 2008</p> <p>Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 44.16" Longitude: 115° 52' 24.45" Easting:393411 Northing: 6476125 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL12</p>
	<p>16 <i>Russula neerimea</i> group Photographer Louise Little <u>Specimen ID:</u> 2009</p> <p>Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 42.11" Longitude: 115° 52' 26.18" Easting:393456 Northing: 6476188 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL16</p>
	<p>18 <i>Amanita</i> sp. Photographer Louise Little <u>Specimen ID:</u> 2010</p> <p>Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 38.72" Longitude: 115° 52' 26.26" Easting:393456 Northing: 6476293 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL18</p>
	<p>23 <i>Russula erumpens</i> Erupting <i>Russula</i> Photographer Louise Little <u>Specimen ID:</u> 2011</p> <p>Growing in sand, in banksia, jarrah woodland. Latitude: -31° 50' 38.33" Longitude: 115° 52' 26.40" Easting:393460 Northing: 6476305 Zone: 50 Date: 10 Jun 2006 opt Image KD56_143LL23 Vouchered into WA Herbarium BOU 201</p>

Georeferenced Track and Photos




Phylis Robertson's group, 10 June 2006



The numbers on the coloured dots in the fungi photos correspond to the collecting number and usually **do not** match the photo number. It is the **photo number** preceding the fungus number which correlates with the site on the map above.

	<p>08 <i>Pycnoporus coccineus</i> Photographer Paul Sexton</p> <p>Growing on dead <i>Melaleuca preissiana</i> wood in wetland. Latitude: -31° 50' 46.36" Longitude: 115° 52' 29.82" Easting:393552 Northing: 6476059 Zone: 50 Date: 10 Jun 2006</p>	<p>Scarlet Bracket Fungus <u>Specimen ID:</u> 2012</p> <p>opt Image KD56_144PS08</p>
	<p>10 <i>Pisolithus</i> sp. Photographer Paul Sexton</p> <p>Growing in litter in wetland. Latitude: -31° 50' 46.28" Longitude: 115° 52' 30.93" Easting:393582 Northing: 6476061 Zone: 50 Date: 10 Jun 2006</p>	<p>Dog Poo Fungus <u>Specimen ID:</u> 2013</p> <p>opt Image KD56_144PS10</p>
	<p>17 <i>Cortinarius</i> sp. Photographer Paul Sexton</p> <p>Growing in sand in <i>Eucalyptus rudis</i> woodland. Latitude: -31° 50' 46.50" Longitude: 115° 52' 31.51" Easting:393597 Northing: 6476055 Zone: 50 Date: 10 Jun 2006</p>	<p><u>Specimen ID:</u> 2014</p> <p>opt Image KD56_144PS17</p>

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	<p>19 <i>Cortinarius</i> sp. Photographer Paul Sexton <u>Specimen ID:</u> 2015 Growing in sand in <i>Eucalyptus rudis</i> woodland. Latitude: -31° 50' 46.50" Longitude: 115° 52' 31.51" Easting:393597 Northing: 6476055 Zone: 50 Date: 10 Jun 2006 opt Image KD56_144PS19</p>
	<p>24 <i>Tricholoma</i> sp. Photographer Paul Sexton <u>Specimen ID:</u> 2016 Growing in sand in <i>Eucalyptus rudis</i> woodland under <i>Jacksonia furcellata</i>. Latitude: -31° 50' 47.04" Longitude: 115° 52' 32.12" Easting:393613 Northing: 6476038 Zone: 50 Date: 10 Jun 2006 opt Image KD56_144PS24</p>
	<p>27 <i>Amanita umbrinella</i> Photographer Paul Sexton <u>Specimen ID:</u> 2017 Growing in sand in <i>Eucalyptus rudis</i> and <i>Melaleuca preissiana</i> woodland. Latitude: -31° 50' 50.54" Longitude: 115° 52' 35.63" Easting:393706 Northing: 6475931 Zone: 50 Date: 10 Jun 2006 opt Image KD56_144PS27 Vouchered into WA Herbarium BOU 202</p>

Georeferenced Track and Photos





Jolanda Keeble's group, 10 June 2006



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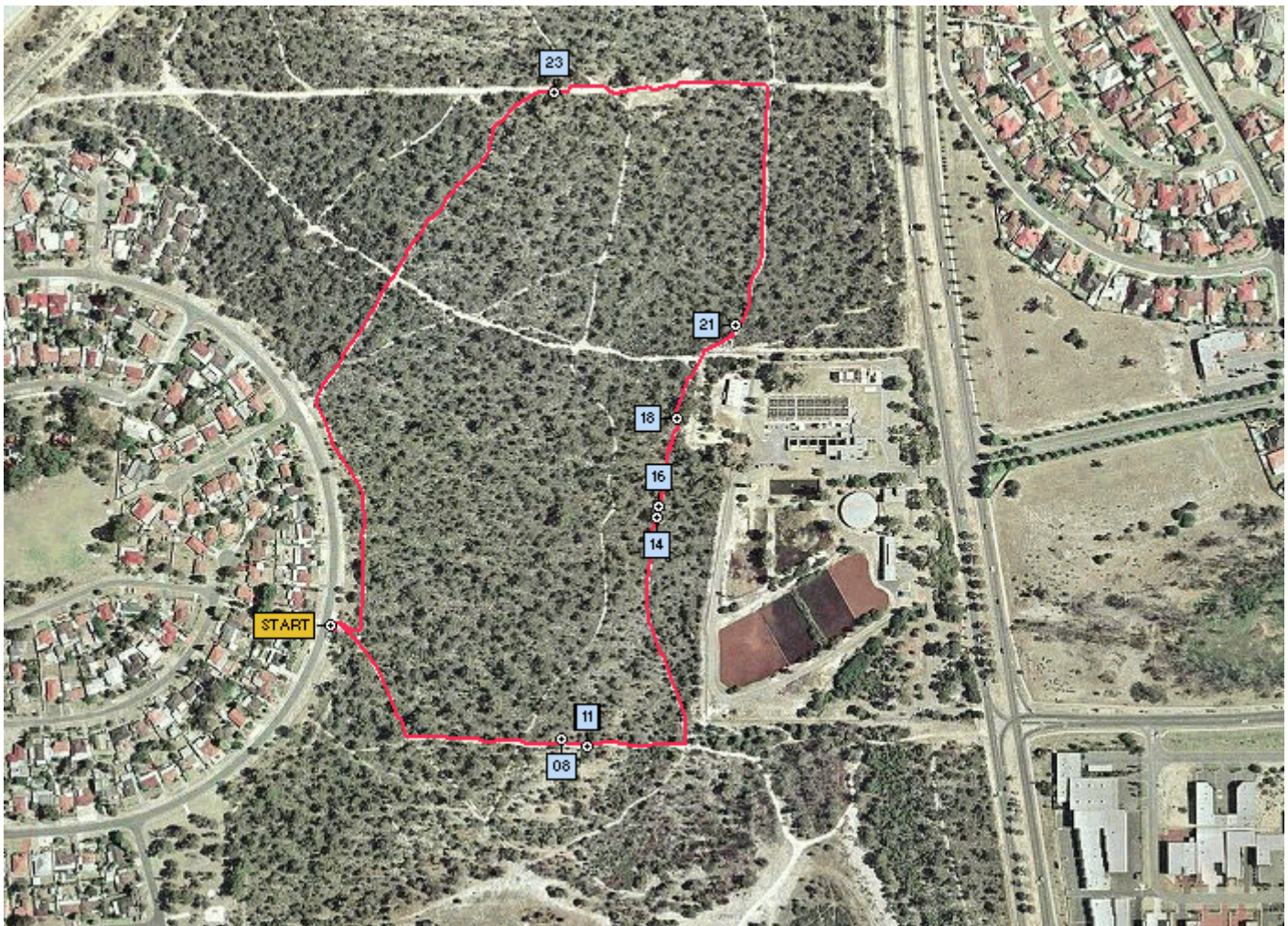
	<p>06 <i>Amanita</i> sp. Photographer Jolanda Keeble <u>Specimen ID:</u> 2018</p> <p>Growing in sand in banksia, jarrah woodland. Latitude: -31° 50' 45.87" Longitude: 115° 52' 22.62" Easting:393363 Northing: 6476072 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK06</p>
	<p>09 <i>Pycnoporus coccineus</i> Scarlet Bracket Fungus Photographer Jolanda Keeble <u>Specimen ID:</u> 2019</p> <p>Growing on burnt melaleuca branch in banksia, jarrah woodland. Latitude: -31° 50' 42.79" Longitude: 115° 52' 28.34" Easting:393513 Northing: 6476168 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK09</p>

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	<p>12 <i>Mycena</i> sp. Photographer Jolanda Keeble <u>Specimen ID:</u> 2020</p> <p>Growing in sand in grassy area. Latitude: -31° 50' 45.88" Longitude: 115° 52' 30.90" Easting:393581 Northing: 6476074 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK12</p>
	<p>15 <i>Ramaria</i> sp. Photographer Jolanda Keeble <u>Specimen ID:</u> 2021</p> <p>Growing in sand in grassland. Latitude: -31° 50' 45.84" Longitude: 115° 52' 30.90" Easting:393581 Northing: 6476075 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK15</p>
	<p>17 <i>Laccaria</i> sp. Photographer Jolanda Keeble <u>Specimen ID:</u> 2022</p> <p>Growing in sand. Latitude: -31° 50' 45.94" Longitude: 115° 52' 30.88" Easting:393580 Northing: 6476072 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK17</p>
	<p>19 <i>Tricholoma</i> sp. Photographer Jolanda Keeble <u>Specimen ID:</u> 2023</p> <p>Growing in sand in <i>Eucalyptus rudis</i>, <i>Melaleuca</i> sp woodland. Latitude: -31° 50' 46.07" Longitude: 115° 52' 31.32" Easting:393592 Northing: 6476068 Zone: 50 Date: 10 Jun 2006 opt Image KD56_145JK19</p>

Georeferenced Track and Photos

Margaret Langley and Anthony Francis' group, 10 June 2006



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10 ?*Marasmiellus* sp.

Photographer Anthony Francis

Specimen ID: 2025

Growing on debarked banksia wood in banksia woodland.

Latitude: -31° 50' 46.14" Longitude: 115° 52' 25.50"

Easting:393439 Northing: 6476064 Zone: 50

Date: 10 Jun 2006

opt Image KD56_146AF10

Vouchered into WA Herbarium BOU 200



11 Undetermined Resupinate

Photographer Anthony Francis

Specimen ID: 2026



Growing on debarked wood in banksia woodland.

Latitude: -31° 50' 46.14" Longitude: 115° 52' 25.50"

Easting:393439 Northing: 6476064 Zone: 50

Date: 10 Jun 2006

opt Image KD56_146AF11

	<p>14 <i>Scleroderma</i> sp. Photographer Anthony Francis <u>Specimen ID:</u> 2027</p> <p>Growing in sand in jarrah, banksia woodland. Latitude: -31° 50' 39.65" Longitude: 115° 52' 27.95" Easting:393501 Northing: 6476264 Zone: 50 Date: 10 Jun 2006 opt Image KD56_146AF14</p>
	<p>16 <i>Russula</i> sp. Photographer Anthony Francis <u>Specimen ID:</u> 2028</p> <p>Growing in sand in banksia woodland. Latitude: -31° 50' 39.34" Longitude: 115° 52' 28.02" Easting:393503 Northing: 6476274 Zone: 50 Date: 10 Jun 2006 opt Image KD56_146AF16</p>
	<p>18 Undetermined Bolete Photographer Anthony Francis <u>Specimen ID:</u> 2029</p> <p>Growing in sand in jarrah, banksia woodland. Latitude: -31° 50' 36.85" Longitude: 115° 52' 28.67" Easting:393519 Northing: 6476351 Zone: 50 Date: 10 Jun 2006 opt Image KD56_146AF18</p>
	<p>21 <i>Amanita</i> sp. Photographer Anthony Francis <u>Specimen ID:</u> 2030</p> <p>Growing in sand under <i>Adenanthos</i> sp. Latitude: -31° 50' 34.22" Longitude: 115° 52' 30.65" Easting:393570 Northing: 6476432 Zone: 50 Date: 10 Jun 2006 opt Image KD56_146AF21</p>
	<p>23 <i>Cortinarius</i> sp. Photographer Anthony Francis <u>Specimen ID:</u> 2031</p> <p>Growing in sand in jarrah, banksia woodland. Latitude: -31° 50' 27.53" Longitude: 115° 52' 24.71" Easting:393412 Northing: 6476637 Zone: 50 Date: 10 Jun 2006 opt Image KD56_146AF23</p>