Perth Urban Bushland Fungi

Greater Brixton Street Wetlands Fungi Report 2007

Written and produced by

Neale L. Bougher, Roz Hart, Sarah de Bueger & Brett Glossop

Department of Environment and Conservation – Perth Urban Bushland Fungi Project

'Green group' examining fungi

'Orange group' recording fungi

Back in the Herbarium working on the fungi

Learning about how fungi are vouchered

PUBF Website : www.fungiperth.org.au

Western Australian Naturalists Club

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Perth
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Fungi

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Department of Environment and Conservation (DEC) – *Perth Urban Bushland Fungi Project*

Advice about the identity of the fungi was provided by Dr Neale Bougher, Mycologist. Organisational and technical support was provided by officers on the PUBF project - Roz Hart, Sarah de Bueger, and Brett Glossop.

Photos and field assistance by PUBF participants

PUBF Website : www.fungiperth.org.au

This report presents data resulting from a Perth Urban Bushland Fungi (PUBF) Project walk held on 27 June 2007 at the Greater Brixton St Wetlands - an urban bushland in the Perth metropolitan region, southwest Western Australia. The report also provides some management recommendations for understanding and conserving fungi biodiversity at the Wetlands.

This PUBF walk was organised for Department of Environment and Conservation staff and volunteers of the Western Australian Herbarium and Urban Nature. The event was attended by thirty eight people. Five groups were taken into the bushland foraying, led by Karen Clarke and Neil Goldsborough; Elaine Davison, Jolanda Keeble and Roz Hart; Joe Froudist; and Phylis Robertson, all leaders from the PUBF Project.

The groups gathered back at the DEC Western Australian Herbarium for lunch and examination of the fungi just in time, as heavy rain set in for the afternoon. With assistance from Fungi Leaders the fungi collected were sorted and vouchered. Mycologist Neale Bougher identified the fungi and talked about their characteristics and their roles in bushlands.

Greater Brixton Street Wetlands Fungi

This inaugural survey of fungi at the Greater Brixton Street Wetlands was preceded by below average rainfall for June 2007. The fruiting of fungi was limited by the low rainfall. Nevertheless 88 records, including 53 different fungi were recorded, and 23 specimens were vouchered into the DEC Western Australian Herbarium. These include genera of decomposer fungi such as *Colus, Mycena* and *Pluteus*, and beneficial mycorrhizal fungi belonging to genera such as *Amanita, Hebeloma, Laccaria,* and *Scleroderma.* Two mycorrhizal truffle fungi were found during this survey, *Descomyces albus* and *Hysterangium* sp. Truffle fungi produce tuber-like fruit bodies under the litter, and at the Greater Brixton Street Wetlands, the truffles were situated only about 1 to 3 cm below the surface leaf litter. Australian native truffles form beneficial mycorrhizal associations with plants in families such as Myrtaceae and Casuarinaceae. The truffles emit odours to attract native mammals which dig them up and use them as a food resource. The animals in turn disperse the truffle spores. *Descomyces albus* is found world-wide wherever eucalypts have been planted. It is a mycorrhizal partner of the eucalypts. *Hysterangium* has also hitched a ride with eucalypts throughout the world. It is a truffle-like fungus, and is characterised by the highly gelatinised greenish interior of its fruit bodies. Among other notable fungi found during the survey was Archer's Cortinar - *Cortinarius archeri*, a large bright violet mycorrhizal fungus known from several bushlands in the Perth region, but not frequently seen.

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 the Greater Brixton Street Wetlands than the 53 species 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.

Management recommendations for understanding and conserving fungi Biodiversity at the Greater Brixton Street Wetlands

The Greater Brixton Street Wetlands has a wide range of vegetation types (Keighery and Keighery, 1991; Keighery, 1995) that undoubtedly influence the presence, abundance and spatial distribution of fungi species at this reserve. For example, it is likely that mycorrhizal fungi forming large fruit bodies are less diverse in some of the vegetation of the ephemeral claypans and wetlands than in the marri (*Corymbia calophylla*) upland woodlands. The presence of these fungi may be curtailed in the wetland parts of the reserve by the seasonally inundated and poorly drained soils, particularly where non-mycorrhizal plants such as Cyperaceae may dominate. Decomposer fungi that form large fruit bodies may be similarly or less influenced in this way than the mycorrhizal larger fungi. Such vegetation-fungi patterns could be clarified if surveys of fungi were carried out annually over many years. Management and general interest in the Greater Brixton Street Wetlands (as with other parts of the Perth region) in the past has primarily focussed on flora and fauna conservation, and this will probably continue to be the case. However, Flora, Fauna and Fungi may need to considered together for future management. The Fungi have crucial ecological roles for maintaining bushland health, including linkages between the 3 F's. An increased level of knowledge about the fungi present at the Greater Brixton Street Wetlands is required as a basis for documenting and understanding the fungi, and in turn for helping to manage the Reserve's Flora and Fauna.

Management recommendations involving fungi include:

1. **Undertake biological surveys to build up an inventory of fungi:** Far more fungi are likely to occur in the Greater Brixton Street Wetlands than those recorded in the 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 for monitoring changes in biodiversity at the Greater Brixton Street Wetlands Reserve, 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.
2. **Record comprehensive data on surveys:** (i) the identity of the fungi (ii) the main features of the fungi (including close-up photographs) (iii) habitat (in litter, on dead wood etc…) (iv) plant species associated with each of the fungi. Standard recording sheets for fungi biodiversity surveys are available on request from PUBF.
3. **Georeference the surveys:** It would be desirable to georeference the surveys at the Greater Brixton Street Wetlands to build up a spatial map of distribution of individual fungi species. Such data can be overlain onto vegetation, soil and fire-age maps so as to potentially recognize associations between particular fungi and plants or vegetation and landscape types. A georeferencing survey kit developed by John Weaver for PUBF is available on loan from the WA Herbarium.
4. **Involve community:** It is recommended that further fungi surveys involving members of the local community be undertaken at the Greater Brixton Street Wetlands. The involvement of community members can facilitate a greater sampling effort, a general increase in awareness of fungi and their roles and linkages in bushlands, and a greater appreciation of the need to preserve bushland. Fungi surveys are well suited to annual involvement of Friends Groups and volunteers from the local community.
5. **Determine the mycorrhizal plant partners of fungi.** To understand the mycorrhizal relationships between fungi and plants at the Greater Brixton Street Wetlands, the list of known plants at the Greater Brixton Street Wetlands should be annotated with the likely mycorrhizal status of each plant, e.g. categories such as - ectomycorrhizal, arbuscular, epacrid, orchid, not mycorrhizal. This will help understand how the pattern of occurrence of various species of fungi relates to the distribution of vegetation types at the Greater Brixton Street Wetlands.
6. **Determine animal interactions with fungi:** Determine what truffle fungi are present at the Greater Brixton Street Wetlands, and if they and other fungi are being used as a food resource by local native mammals. Such information has significant application if mammals are being encouraged or relocated into the area, or to help understand why there may have been declines in mammal populations at the Greater Brixton Street Wetlands.
7. **Include Flora, Fauna and Fungi in signage and interpretative material at the Park:** to promote public awareness and appreciation of the conspicuous and less conspicuous biodiversity at the Greater Brixton Street Wetlands and the linkages between the 3F's that influence the long-term health of the Park.
8. **Support a strategy for preservation of representative landscapes:** Support a management plan that aims to preserve a variety of natural vegetation types and the diversity of plant species within the type groups. Also preserve a diversity of fire ages, including at least some long unburnt patches if possible. This strategy will help retain a variety of microhabitats for fungi – e.g. specific components of wood (logs, cones, twigs etc…), litter, moss beds, and specific mycorrhizal partner plants. In turn, this strategy may foster fungal and other biodiversity at the Greater Brixton Street Wetlands.

References:

Bougher, N.L. (2007) Perth Urban Bushland Fungi Field Book. Perth Urban Bushland Fungi, Perth, Western Australia (self managed format linked to www.fungiperth.org.au).

Keighery, B. (1995) Knowing and Managing the Brixton Street Wetlands, Wildflower Society of Western Australia, Perth, Western Australia.

Keighery, G.J. & Keighery, B.J. (1991) Floristics of Reserves and Bushland Areas of the Perth Region (System 6) Parts ii-iv, Wildflower Society of Western Australia, Perth, Western Australia.

Greater Brixton Street Wetlands Fungi List: 27 June 2007

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

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

Fungimap Target: refers to species that have been selected by the Australia-wide mapping project, Fungimap, for collecting detailed records to be compiled into distribution maps. See Fungimap on-line at www.rbg.vic.gov.au/fungimap and the book *Fungi Down Under* by Grey, P. and Grey, E (2005).

Scientific Name	Common Name	Form	Habitat	Life Mode	Fungimap Target	Field Book Page #	Specimen. ID
***Agrocybe* sp.**		mushroom	litter/ground	S			3023, 3032, 3033
Aleurina ferruginea	**Fleshy Cup Fungus**	cup	litter/ground	S		A-1	2999
Amanita umbrinella		mushroom	litter/ground	M		J-36	2959, 2958, 2977, 2998, 3004
Amanita xanthocephala	**Yellow Headed Amanita**	mushroom	litter/ground	M	Yes		2956, 2991
Arcyria minuta		slime mould	dead wood	S			2971
Byssomerulius corium	**Bysso Skin Fungus**	resupinate/ shelf	dead wood	S		O-3	2996
***Clavaria* sp.**		coral	litter/ground	M			3015
***Clavulina* sp.**		coral	litter/ground	M			2979
***Clitocybe* sp.**		mushroom	litter/ground	S			3012
Coltricia cinnamomea	**Tough Cinnamon Fungus**	mushroom	litter/ground	S		N-1	3003
Colus pusillus	**Red Fingers**	stinkhorn	litter/ground	S	Yes	L-1	2966, 3035
***Coprinellus* sp.**		mushroom	litter/ground	S			2964
***Coprinus* sp.**		mushroom	litter/ground	S			2993
Cortinarius archeri		mushroom	litter/ground	M		J-34	3005
***Cortinarius* sp.**		mushroom	litter/ground	M			3018, 3019
Cortinarius sublargus		mushroom	litter/ground	M			2967
Dermocybe clelandii	**Cleland's Cortinar**	mushroom	litter/ground	M			3006
Enerthenema papillatum	**Slime Mould**	slime mould	dead wood	S			2992
***Entoloma* sp.**		mushroom	litter/ underground	S			3011, 3024
***Exidia* sp.**		jelly fungus	dead wood	S			2965, 2975
Galerina nana		mushroom	litter/ground	S			2974
***Galerina* sp.**		mushroom	litter/ground	S			2994, 3001, 3029, 3030, 3038
Gymnopilus purpuratus		mushroom	dead wood	S			3037

Scientific Name	Common Name	Form	Habitat	Life Mode	Fungimap Target	Field Book Page #	Specimen. ID
***Gymnopilus* sp.**		mushroom	dead wood	S			3009, 3010
Hebeloma westraliense		mushroom	litter/ground	M			3039
Hjorstamia crassa		resupinate	dead wood	S			2990
Hypomyces chrysospermum		mould	mushrooms	P			2983
***Hysterangium* sp.**		truffle	underground /under litter	M			2981
Inermisia fusispora		cup	litter/ground	S		A-5	2955
***Inocybe* sp.**		mushroom	litter/ground	M			2970, 2980, 3002, 3017
***Laccaria* sp.**		mushroom	litter/ground	M			2954, 2968, 2988, 3016
Lactarius eucalypti		mushroom	litter/ground	M			2987
***Mycena* sp.**		mushroom	litter/ground	S			2961, 2973
***Panaeolus* sp.**		mushroom	litter/ground	S			3034
***Phellinus* sp.**		bracket	dead wood	S			2957
Pholiota communis	**Common Pholiota**	mushroom	litter/ground	S		J-26	3007
***Pisolithus* sp.**	**Dog Poo Fungus**	puffball	litter/ground	M		L-3	2989, 3027
Pluteus lutescens		mushroom	dead wood	S			2962
Pycnoporus coccineus	**Scarlet Bracket Fungus**	bracket	dead wood	S		N-8	2976
***Russula* sp.**		mushroom	litter/ground	M			2982
Scleroderma cepa		puffball	litter/ground	M			2960, 3025
Stereum illudens	**Purplish Stereum**	bracket	dead wood	S		O-6	3021
***Tremella mesenterica* group**	**Yellow Brain Fungus**	jelly fungus	dead wood	S	Yes	Q-2	3008
Tubaria rufofulva		mushroom	litter/ground	S			3020
***Tubaria* sp.**		mushroom	litter/ground	S			3036
***Tylopilus* sp.**		mushroom	litter/ground	M		K-4	2963
Undetermined Agaric		mushroom	litter/ground	?			2995, 3028
Undetermined Ascomycete		cup	litter/ground	S			3000, 3013, 3014
Undetermined Bolete		mushroom	litter/ground	M		R-3	2978
Undetermined Resupinate		resupinate	dead wood	M			2969, 2972, 2984, 2985, 2986, 2997, 3022, 3026
Undetermined Slime Mould	**Slime Mould**	slime mould	dead wood	S			3031

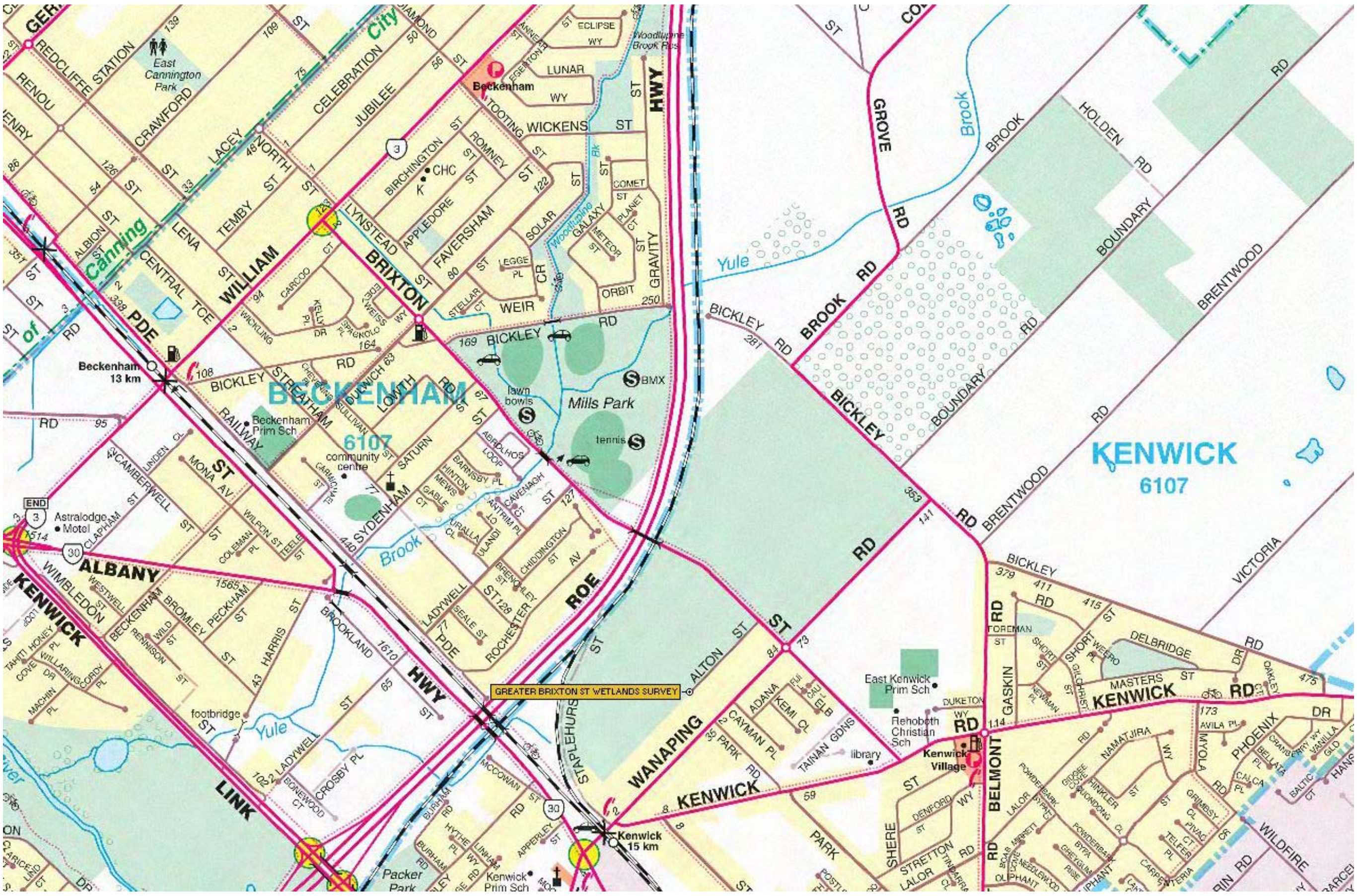
Permanent Vouchered Specimens

Twenty three of the fungi collected during this event were deposited into the DEC Western Australian Herbarium fungi collection with the following details:

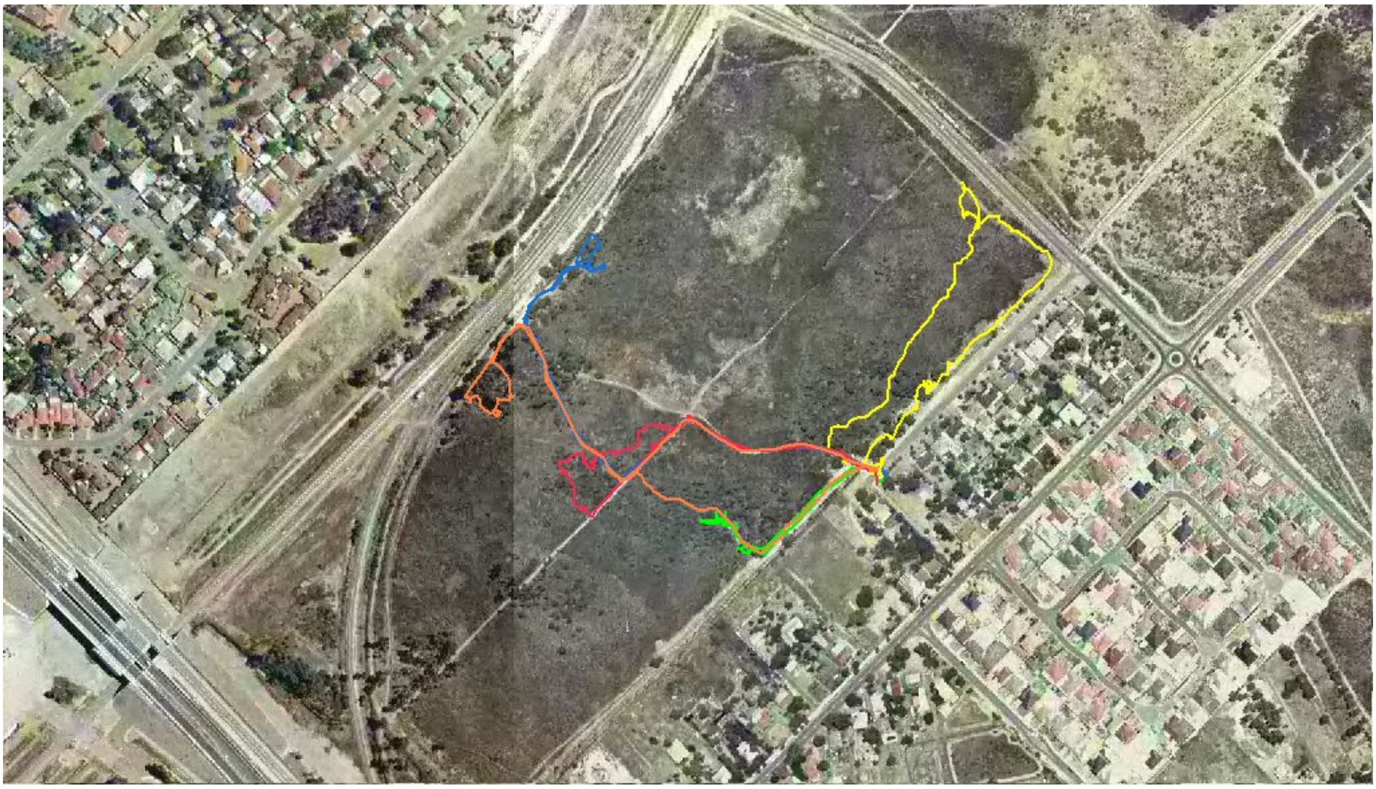
***Agrocybe* sp.**	**Voucher ID:** E8480	**Specimen ID:** 3023
***Agrocybe* sp.**	**Voucher ID:** E8485	**Specimen ID:** 3032
Amanita xanthocephala	**Voucher ID:** E8473	**Specimen ID:** 2956
Amanita umbrinella	**Voucher ID:** E8477	**Specimen ID:** 2977
Colus pusillus	**Voucher ID:** E8478	**Specimen ID:** 3035
Cortinarius archeri	**Voucher ID:** E8475	**Specimen ID:** 3005
Cortinarius sublargus	**Voucher ID:** E8479	**Specimen ID:** 2967
Dermocybe clelandii	**Voucher ID:** E8476	**Specimen ID:** 3006
***Entoloma* sp.**	**Voucher ID:** E8493	**Specimen ID:** 3024
***Galerina* sp.**	**Voucher ID:** E8481	**Specimen ID:** 3038
Gymnopilus purpuratus	**Voucher ID:** E8488	**Specimen ID:** 3037
Hebeloma westraliense	**Voucher ID:** E8474	**Specimen ID:** 3039
***Hysterangium* sp.**	**Voucher ID:** E8483	**Specimen ID:** 2981
Inermisia fusispora	**Voucher ID:** E8487	**Specimen ID:** 2955
***Laccaria* sp.**	**Voucher ID:** E8494	**Specimen ID:** 2988
Lactarius eucalypti	**Voucher ID:** E8472	**Specimen ID:** 2987
Pluteus lutescens	**Voucher ID:** E8492	**Specimen ID:** 2962
Pycnoporus coccineus	**Voucher ID:** E8484	**Specimen ID:** 2976
***Russula* sp.**	**Voucher ID:** E8490	**Specimen ID:** 2982
Scleroderma cepa	**Voucher ID:** E8489	**Specimen ID:** 3025
Tubaria rufofulva	**Voucher ID:** **E**8471	**Specimen ID:** 3020
Undetermined Resupinate	**Voucher ID:** E8491	**Specimen ID:** 2997

Three Fungi collected at Greater Brixton Street Wetlands on 1 July 2007 but not included in the survey were: *Descomyces albus*, *Hysterangium sp*., and *Inocybe* sp. . They were all vouchered as follows:

Descomyces albus	**Voucher ID:** E8482	**Specimen ID:** none
Hysterangium sp.	**Voucher ID:** E8483	**Specimen ID:** none
***Inocybe* sp.**	**Voucher ID:** E8486	**Specimen ID:** none



StreetExpress Map showing the location of Greater Brixton Street Wetlands, Bush Forever Site 387.

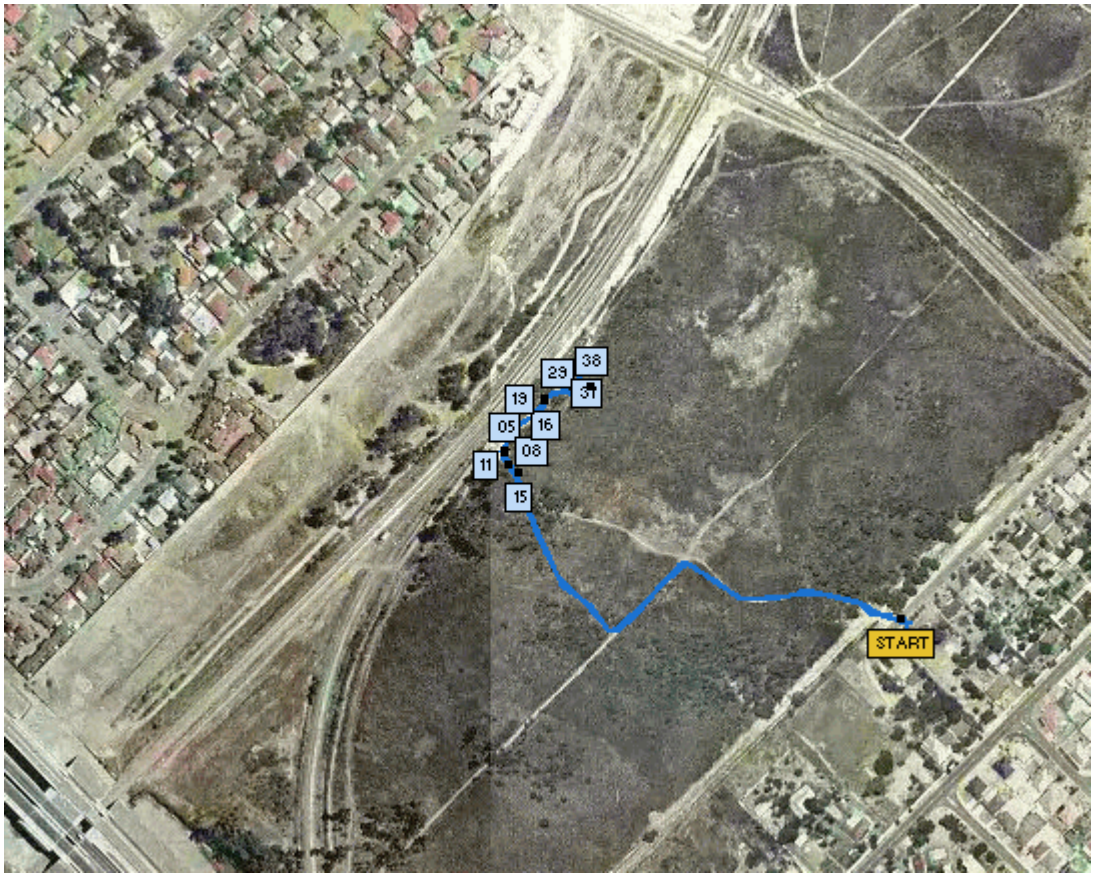


Aerial photo showing the colour coded tracks of the five groups on 27 June 2007.

StreetExpress map reproduced with permission of DLI, P332, Aerial photos reproduced with permission of DLI, 13/2005.
OziExplorer and OziPhotoTool were used to produce the track and linked fungi photos.

Georeferenced Track and Photos

Karen Clarke and Neil Goldsborough's group, 27 June 2007.



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.

Event: Brixton Street Reserve Date: 27/06/2007
Group Number: 203 Photographer: Neil Goldsborough

05 *Laccaria* sp.

Specimen ID: 2954

Growing in sandy clay in marri/*Kingia australis* woodland.
Latitude: 32° 1' 49.2"South Longitude: 115° 58' 9.6"East

27/06/2007

Image: BR70_203NG05

08 *Inermisia fusispora*

Specimen ID: 2955

Growing in sandy clay in marri/*Kingia australis* woodland.
Latitude: 32° 1' 49.4"South Longitude: 115° 58' 9.7"East

27/06/2007

Image: BR70_203NG08

Vouchered WA Herbarium: **E8487**

11 *Amanita xanthocephala* **Yellow Headed Amanita**

Specimen ID: 2956

Growing in sandy clay in marri/*Kingia australis* woodland.
Latitude: 32° 1' 29.7"South Longitude: 115° 58' 10"East

27/06/2007 **Fungimap Target**

Image: BR70_203NG11

Vouchered WA Herbarium: **E8473**

15 *Phellinus* sp.

Specimen ID: 2957

Growing on old dead marri in marri/*Kingia australis* woodland.
Latitude: 32° 1' 29.7"South Longitude: 115° 58' 10"East

27/06/2007

Image: BR70_203NG15

16 *Amanita umbrinella*

Specimen ID: 2958

Growing in sand amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.8"South Longitude: 115° 58' 10.9"East

27/06/2007

Image: BR70_203NG16

19 *Amanita umbrinella*

Specimen ID: 2959

Growing in sandy clay amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.8"South Longitude: 115° 58' 10.9"East

27/06/2007

Image: BR70_203NG19

22 *Scleroderma cepa*

Specimen ID: 2960

Growing in sand amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.5"South Longitude: 115° 58' 11.7"East

27/06/2007

Image: BR70_203NG22

23 *Mycena* sp.

Specimen ID: 2961

Growing in sand amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.5"South Longitude: 115° 58' 11.7"East

27/06/2007

Image: BR70_203NG23

28 *Pluteus lutescens*

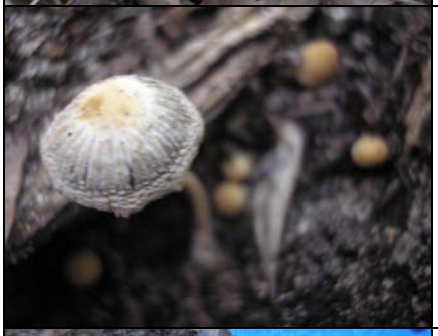
Specimen ID: 2962

Growing in sand amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.3"South Longitude: 115° 58' 11.8"East
27/06/2007
Image: BR70_203NG28
Vouchered WA Herbarium: **E8492**

29 *Tylopilus* sp.

Specimen ID: 2963

Growing in sand amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.1"South Longitude: 115° 58' 12"East
27/06/2007
Image: BR70_203NG29



35 *Coprinellus* sp.

Specimen ID: 2964

Growing in sandy clay amongst litter in marri/*Kingia australis* woodland.
Latitude: 32° 1' 47.1"South Longitude: 115° 58' 12"East
27/06/2007
Image: BR70_203NG35

37 *Exidia* sp.

Specimen ID: 2965

Growing on dead wood in marri/*Kingia australis* woodland.
Latitude: 32° 1' 46.9"South Longitude: 115° 58' 12.2"East
27/06/2007
Image: BR70_203NG37

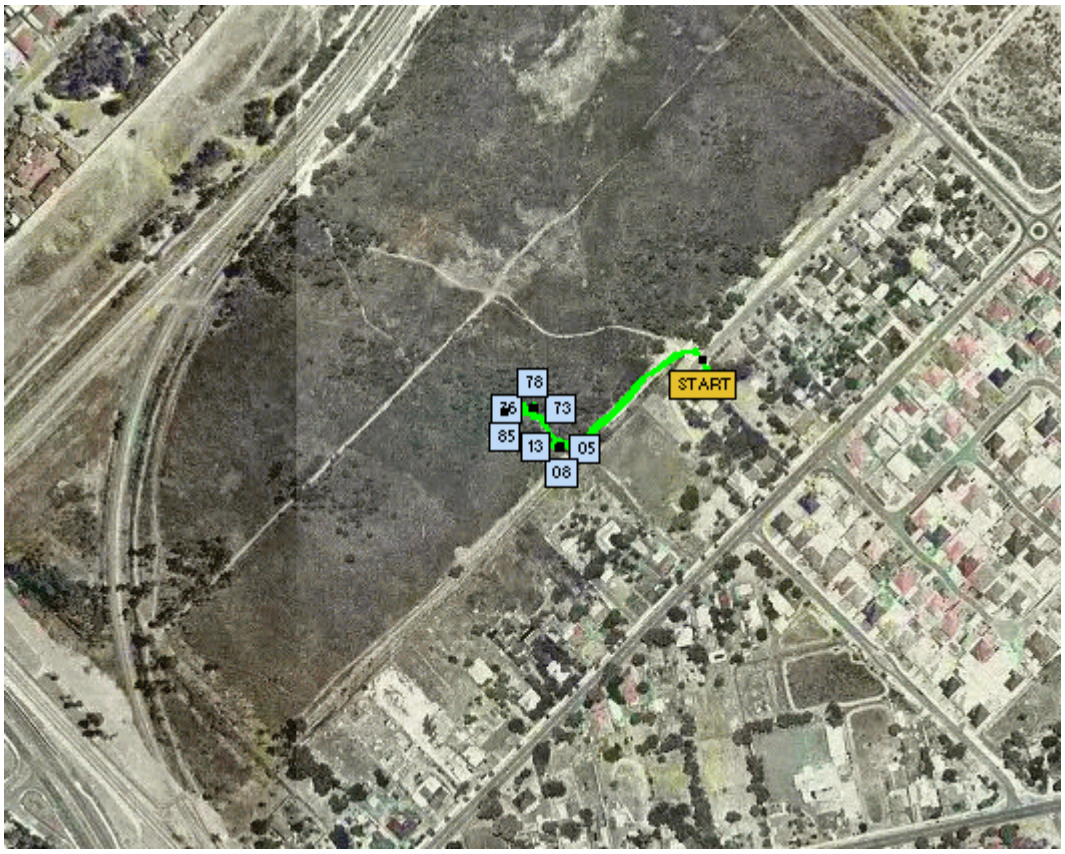
38 *Colus pusillus* **Red Fingers**

Specimen ID: 2966

Growing amongst litter in *Viminaria juncea* shrubland.
Latitude: 32° 1' 47.5"South Longitude: 115° 58' 12.3"East
27/06/2007 **Fungimap Target**
Image: BR70_203NG38

Georeferenced Track and Photos

Elaine Davison's group, 27 June 2007.



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.

Event: Brixton Street Reserve Date: 27/06/2007
Group Number: 204 Photographer: John Huisman

05 *Cortinarius sublargus*

Specimen ID: 2967

Growing in damp sand under litter in marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East

27/06/2007

Image: BR70_204JH05

Vouchered WA Herbarium: **E8479**

08 *Laccaria* sp.

Specimen ID: 2968

Growing in damp sand amongst litter and moss in marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East

27/06/2007

Image: BR70_204JH08

13 Undetermined Resupinate

Specimen ID: 2969

Growing on dead wood in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH13

18 *Inocybe* sp.

Specimen ID: 2970

Growing open sand in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH18

20 *Arcyria minuta*

Specimen ID: 2971

Growing on dead wood in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH20

21 Undetermined Resupinate

Specimen ID: 2972

Growing on dead wood in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH21

31 *Mycena* sp.

Specimen ID: 2973

Growing on dead wood under sand in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH31

40 *Galerina nana*

Specimen ID: 2974

Growing in damp sand amongst sedges in marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH40

43 *Exidia* sp.

Specimen ID: 2975

Growing on the underside of dead wood, lying on a moss mat, amongst sedges in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH43

44 *Pycnoporus coccineus*

Scarlet Bracket Fungus

Specimen ID: 2976

Growing on the base of a dead *Melaleuca* sp. in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH44
Vouchered WA Herbarium: **E8484**

49 *Amanita umbrinella*

Specimen ID: 2977

Growing in sand amongst litter in damp marri woodland
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH49
Vouchered WA Herbarium: **E8477**

55 Undetermined Bolete

Specimen ID: 2978

Growing in sand in disturbed area next to path.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH55

56 *Clavulina* sp.

Specimen ID: 2979

Growing in sand under litter in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH56

59 *Inocybe* sp.

Specimen ID: 2980

Growing in sand under litter in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH59

61 *Hysterangium* sp.

Specimen ID: 2981

Growing in sand in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH61
Vouchered WA Herbarium: **E8483**

66 *Russula* sp.

Specimen ID: 2982

Growing under litter in disturbed path area.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH66
Vouchered WA Herbarium: **E8490**

73 *Hypomyces chrysospermum*

Specimen ID: 2983

Rot growing on a bolete.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH73

74 Undetermined Resupinate

Specimen ID: 2984

Growing on dead wood in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH74

76 Undetermined Resupinate

Specimen ID: 2985

Growing on dead wood in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH76

85 *Lactarius eucalypti*

Specimen ID: 2987

Growing in sand in damp marri woodland.
Latitude: 32° 1' 55.9"South Longitude: 115° 58' 17.1"East
27/06/2007
Image: BR70_204JH85
Vouchered WA Herbarium: **E8472**

Georeferenced Track and Photos

Jolanda Keeble and Roz Hart's group, 27 June 2007.

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.

Event: Brixton Street Reserve Date: 27/06/2007
Group Number: 205 Photographer: Roz Hart

05 *Laccaria* sp.

Specimen ID: 2988

Growing amongst litter in seasonal wetland.
Latitude: 32° 1' 52.85"South Longitude: 115° 58' 11.6"East
27/06/2007
Image: BR70_205RH05

Vouchered WA Herbarium: **E8494**

06 *Pisolithus* sp. — Dog Poo Fungus

Specimen ID: 2989

Growing in sand in seasonal wetland.
Latitude: 32° 1' 52.8"South Longitude: 115° 58' 11.6"East
27/06/2007
Image: BR70_205RH06

07 *Hjorstamia crassa*

Specimen ID: 2990

Growing on dead marri in seasonal wetland.
Latitude: 32° 1' 52.8"South Longitude: 115° 58' 11.6"East
27/06/2007
Image: BR70_205RH07

10 *Amanita xanthocephala*

Yellow Headed Amanita

Specimen ID: 2991

Growing amongst litter in seasonal wetland.
Latitude: 32° 1' 50.6"South Longitude: 115° 58' 10.3"East
27/06/2007 **Fungimap Target**
Image: BR70_205RH10

11 *Enerthenema papillatum*

Slime Mould

Specimen ID: 2992

Growing on dead marri in seasonal wetland.
Latitude: 32° 1' 50.2"South Longitude: 115° 58' 10.2"East
27/06/2007
Image: BR70_205RH11

18 *Coprinus* sp.

Specimen ID: 2993

Growing in soil amongst moss in seasonal wetland.
Latitude: 32° 1' 50.3"South Longitude: 115° 58' 10.2"East
27/06/2007
Image: BR70_205RH18

22 Undetermined Agaric

Specimen ID: 2995

Growing on dead marri wood in seasonal wetland.
Latitude: 32° 1' 31.3"South Longitude: 115° 58' 9"East
27/06/2007
Image: BR70_205RH22

25 *Byssomerulius corium*

Bysso Skin Fungus

Specimen ID: 2996

Growing on dead marri wood in seasonal wetland.
Latitude: 32° 1' 31.3"South Longitude: 115° 58' 9"East
27/06/2007
Image: BR70_205RH25

28 Undetermined Resupinate

Specimen ID: 2997

Growing on dead marri wood in seasonal wetland.
Latitude: 32° 1' 51.3"South Longitude: 115° 58' 9"East
27/06/2007
Image: BR70_205RH28
Vouchered WA Herbarium: **E8491**

30 *Amanita umbrinella*

Specimen ID: 2998

Growing in sand in shrubland.
Latitude: 32° 1' 51.4"South Longitude: 115° 58' 8.6"East
27/06/2007
Image: BR70_205RH30

32 *Aleurina ferruginea*

Fleshy Cup Fungus
Specimen ID: 2999

Growing in sand in shrubland.
Latitude: 32° 1' 51.8"South Longitude: 115° 58' 8.7"East
27/06/2007
Image: BR70_205RH32

34 Undetermined Ascomycete

Specimen ID: 3000

Growing in sand in shrubland.
Latitude: 32° 1' 51.8"South Longitude: 115° 58' 8.7"East
27/06/2007
Image: BR70_205RH34

39 *Galerina* sp.

Specimen ID: 3001

Growing in moss in shrubland.
Latitude: 32° 1' 51.8"South Longitude: 115° 58' 8.7"East
27/06/2007
Image: BR70_205RH39

41 *Inocybe* sp.

Specimen ID: 3002

Growing in sand in shrubland.
Latitude: 32° 1' 51.8"South Longitude: 115° 58' 8.7"East
27/06/2007
Image: BR70_205RH41

	**46 *Coltricia cinnamomea***	**Tough Cinnamon Fungus** Specimen ID: 3003
	Growing in sand in shrubland. Latitude: 32° 1' 51.8"South Longitude: 115° 58' 8.6"East 27/06/2007	Image: BR70_205RH46
	**47 *Amanita umbrinella***	Specimen ID: 3004
	Growing in sand in shrubland. Latitude: 32° 1' 51.7"South Longitude: 115° 58' 8.2"East 27/06/2007	Image: BR70_205RH47
	**55 *Cortinarius archeri***	Specimen ID: 3005
	Growing in clay in marri/*Viminaria juncea* woodland. Latitude: 32° 1' 51.5"South Longitude: 115° 58' 8"East 27/06/2007 Vouchered WA Herbarium: **E8475**	Image: BR70_205RH55
	**58 *Dermocybe clelandii***	**Cleland's Cortinar** Specimen ID: 3006
	Growing in sand in marri woodland. Latitude: 32° 1' 51.5"South Longitude: 115° 58' 8"East 27/06/2007 Vouchered WA Herbarium: **E8476**	Image: BR70_205RH58
	**60 *Pholiota communis***	**Common Pholiota** Specimen ID: 3007
	Growing in sand in marri woodland. Latitude: 32° 1' 51.4"South Longitude: 115° 58' 7.7"East 27/06/2007	Image: BR70_205RH60
	**61 *Tremella mesenterica* group**	**Yellow Brain Fungus** Specimen ID: 3008
	Growing on dead wood in marri woodland. Latitude: 32° 1' 51.6"South Longitude: 115° 58' 7.6"East 27/06/2007 **Fungimap Target**	Image: BR70_205RH61

Georeferenced Track and Photos

Joe Froudist's group, 27 June 2007.

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.

Event: Brixton Street Reserve Date: 27/06/2007
Group Number: 206 Photographer: Joe Froudist

03 *Gymnopilus* sp.

Specimen ID: 3009

Growing in loam/clay amongst moss in wetland.
Latitude: 32° 1' 52.3"South Longitude: 115° 58' 14.2"East
27/06/2007
Image: BR70_206JF03

05 *Entoloma* sp.

Specimen ID: 3011

Growing in loam/clay amongst moss in open wetland.
Latitude: 32° 1' 52.3"South Longitude: 115° 58' 14.3"East
27/06/2007
Image: BR70_206JF05

06 *Clitocybe* sp.

Specimen ID: 3012

Growing on dead wood in marri/melaleuca woodland.
Latitude: 32° 1' 53.2"South Longitude: 115° 58' 11.9"East
27/06/2007
Image: BR70_206JF06

07 Undetermined Ascomycete

Specimen ID: 3013

Growing amongst moss on ironstone in marri/melaleuca woodland.
Latitude: 32° 1' 53.3"South Longitude: 115° 58' 11.8"East
27/06/2007
Image: BR70_206JF07

09 *Clavaria* sp.

Specimen ID: 3015

Growing amongst moss on ironstone in marri/melaleuca woodland.
Latitude: 32° 1' 53.3"South Longitude: 115° 58' 11.8"East
27/06/2007
Image: BR70_206JF09

10 *Laccaria* sp.

Specimen ID: 3016

Growing in clay near moss in marri/melaleuca woodland.
Latitude: 32° 1' 53.3"South Longitude: 115° 58' 11.8"East
27/06/2007
Image: BR70_206JF10

11 *Inocybe* sp.

Specimen ID: 3017

Growing amongst moss in marri/melaleuca woodland.
Latitude: 32° 1' 53.4"South Longitude: 115° 58' 11.9"East
27/06/2007
Image: BR70_206JF11

12 *Cortinarius* sp.

Specimen ID: 3018

Growing at base of marri in marri/hakea woodland.
Latitude: 32° 1' 53.3"South Longitude: 115° 58' 11.5"East
27/06/2007
Image: BR70_206JF12

13 *Cortinarius* sp.

Specimen ID: 3019

Growing amongst sedges in marri/*Viminaria juncea*/hakea woodland.
Latitude: 32° 1' 53.1"South Longitude: 115° 58' 11.1"East
27/06/2007
Image: BR70_206JF13

14 *Tubaria rufofulva*

Specimen ID: 3020

Growing amongst litter in marri/hakea woodland.
Latitude: 32° 1' 53.2"South Longitude: 115° 58' 10.7"East
27/06/2007
Image: BR70_206JF14
Vouchered WA Herbarium: **E8471**

15 *Stereum illudens* **Purplish Stereum**

Specimen ID: 3021

Growing on dead wood in marri/hakea woodland.
Latitude: 32° 1' 53.5"South Longitude: 115° 58' 10.8"East
27/06/2007
Image: BR70_206JF15

17 Undetermined Resupinate

Specimen ID: 3022

Growing on dead wood in marri/hakea woodland.
Latitude: 32° 1' 53.5"South Longitude: 115° 58' 10.8"East
27/06/2007
Image: BR70_206JF17

18 *Agrocybe* sp.

Specimen ID: 3023

Growing amongst litter in *Viminaria juncea*/hakea woodland.
Latitude: 32° 1' 54.6"South Longitude: 115° 58' 11.4"East
27/06/2007
Image: BR70_206JF18
Vouchered WA Herbarium: **E8480**

19 *Entoloma* sp.

Specimen ID: 3024

Growing amongst litter in gravel by track side in *Viminaria juncea* woodland.
Latitude: 32° 1' 54.7"South Longitude: 115° 58' 11.9"East
27/06/2007
Image: BR70_206JF19
Vouchered WA Herbarium: **E8493**

Georeferenced Track and Photos

Phylis Robertson's group, 27 June 2007.

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.

Event: Brixton Street Reserve Date: 27/06/2007
Group Number: 207 Photographer: Phylis Robertson

03 *Scleroderma cepa*

Specimen ID: 3025

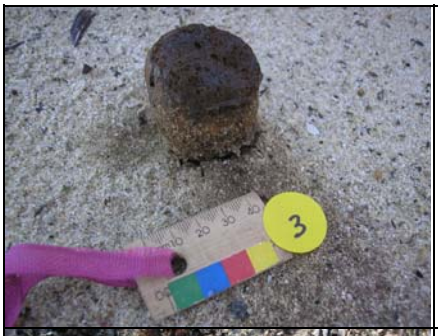
Growing amongst woodchips on the roadside under marri.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR03

Vouchered WA Herbarium: **E8489**

04 Undetermined Resupinate

Specimen ID: 3026

Growing on clay and ironstone pebbles in marri woodland.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR04



05 *Pisolithus* sp. **Dog Poo Fungus**

Specimen ID: 3027

Growing in bare sand in marri woodland.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR05

07 Undetermined Agaric

Specimen ID: 3028

Growing in sandy path in marri woodland.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR07

08 *Galerina* sp.

Specimen ID: 3029

Growing in clay amongst moss near *Acacia lasiocarpa*/*Viminaria juncea*.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR08

10 *Galerina* sp.

Specimen ID: 3030

Growing in clay amongst moss near *Acacia lasiocarpa*/*Viminaria juncea*.
Latitude: 32° 1' 53"South Longitude: 115° 58' 21.7"East
27/06/2007
Image: BR70_207PR10

11 Undetermined Slime Mould **Slime Mould**

Specimen ID: 3031

Growing in clay amongst moss near *Verticordia densiflora* and sedgeland.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007
Image: BR70_207PR11

12 *Agrocybe* sp.

Specimen ID: 3032

Growing in clay in sedgeland.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007
Image: BR70_207PR12

Vouchered WA Herbarium: **E8485**

14 *Panaeolus* sp.

Specimen ID: 3034

Growing in clay in sedgeland.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007
Image: BR70_207PR14

15 *Colus pusillus* **Red Fingers**

Specimen ID: 3035

Growing in clay at the base of *Dryandra indleyana*/*Viminaria juncea*.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007 **Fungimap Target**
Image: BR70_207PR15
Vouchered WA Herbarium: **E8478**

16 *Tubaria* sp.

Specimen ID: 3036

No data recorded.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007
Image: BR70_207PR16

17 *Gymnopilus purpuratus*

Specimen ID: 3037

Growing in clay in sedgeland/weeds/moss.
Latitude: 32° 1' 46.5"South Longitude: 115° 58' 25"East
27/06/2007
Image: BR70_207PR17
Vouchered WA Herbarium: **E8488**

18 *Galerina* sp.

Specimen ID: 3038

Growing in clay amongst *Verticordia densiflora*/*Acacia lasiocarpa*.
Latitude: 32° 1' 46.1"South Longitude: 115° 58' 24.6"East
27/06/2007
Image: BR70_207PR18
Vouchered WA Herbarium: **E8481**

20 *Hebeloma westraliense*

Specimen ID: 3039

Growing in clay amongst deep litter in marri woodland.
Latitude: 32° 1' 46.1"South Longitude: 115° 58' 24.6"East
27/06/2007
Image: BR70_207PR20
Vouchered WA Herbarium: **E8474**