Lyophyllum aff connatum

***Lyophillum aff connatum* © Dave Holdom**

Cap: broadly convex; 80 – 140 mm diameter; glabrous to minutely velutinate; white; margin appendiculate. Overall caespitose fruit body 700 mm across and 500 mm high.
Stipe: barrel shaped, that is broader near center or clavate, caespitose; 90 – 210 × 20 – 50 mm; stuffed; white, sparsely fibrillose.
Gills: adnexed; white then cream; edge irregularly crenate; lamellulae present.
Flesh: white, unchanging.
Taste: pleasant, hard to describe.
Chemical reactions: FeSO4 on cap and gills: nil
Spore print: white to pale cream.
Spores: subglobose; 4.7 – 5.8 × 3.8 – 5.2 µm, average 5.2 ± 0.3 × 4.65 ± 0.45 µm, Q = 1.02 – 1.44, average Q = 1.13 ± 0.14; inamyloid.
Basidia: long, narrow, cylindrical, four spored; with distinctive dark contents.
Cheilocystidia: not seen.
Pleurocystidia: not seen
Pileipellis: a cutis
Habitat: woodchip mulch in a suburban park, roadsides.
Notes: The fungus looks very like *Lyophyllum connatum* and has many of its microscopic characters, but, gill attachment, reaction to FeSO 4, spore size and overall size all differ significantly so this must be another species. Raithelhuber has described a number of species in a new genus *Pseudolyophillum* but it has been impossible to obtain the literature. This collection might also possibly be an immature *Macrocybe crassa*.
Collections examined: PL 26310, Dave Holdom, 8 March 2010; PL19313, Mudjimba, Sunshine Coast, Pat Leonard, 6 Mar 2013.