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Goodwood Estate *Drakaea elastica* survey

On 6th August 2019 a Strategen-JBS&G botanist undertook a targeted winter survey of Goodwood Estate, at Lot 871 Prowse Road, Capel, for the Threatened orchid species *Drakaea elastica*. *D. elastica* is a small, single-leafed orchid which appears in winter, with a non-descript flower developing in October-November. The species is identifiable by its heart shaped, glossy leaf (Plate 1). It favours low-lying sandy locations near winter-wet swamps. The site was a low-lying, closed woodland of *Banksia* species, Eucalypts and dense *Kunzea glabrescens*, within a paddock. Cows were being grazed in the paddock at the time of the survey.

Lot 871 was surveyed in 2005 by Bennett Consulting (16 *D. elastica* found), 2007 by Department of Biodiversity, Conservation and Attractions (formerly Conservation and Land Management) (DBCA) (75 found) and 2008 by DBCA and ENV Australia (174 found). Locations where *D. elastica* were found were pegged and tubular steel fencing was installed, however, the fencing was later removed by vandals. Pegs remain at some sites, though these locations are no longer accurate markers of *D. elastica* locations.

Strategen-JBS&G's 2019 survey included revisiting historically recorded locations of *D. elastica* and undertaking traverses on a 10 meter grid throughout the site using the methodology for targeted surveys outlined by the EPA's *Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA, 2016).

One hundred and twenty four *D. elastica* were found, some at previously recorded locations and some at new locations (Table 1). The survey was constrained by the presence of significant amounts of leaf litter and fallen timber/brushwood (Plate 2). Given the small size of *D. elastica* leaves (15-20 mm width) it is possible not all individuals within the site were recorded.

Table 1: 2019 *Drakaea elastica* locations at Goodwood Estate

Quantity	Easting (m) GDA94, UTM zone 50L	Northing (m) GDA94, UTM zone 50L
1	366064	6284691
13	366182	6284692
5	366175	6284729
48	366170	6284749
8	366170	6284757
1	366172	6284757
3	366180	6284745
4	366166	6284758
7	366166	6284745
1	366337	6284697
11	366271	6284760
17	366226	6284709
2	366200	6284674
3	366109	6284733



Plate 1. *Drakaea elastica* (16 individuals visible in this photograph)



Plate 2. A historic location of *D. elastica*, with significant volumes of fallen timber/brushwood



Legend:

- ▬ Targeted *Drakaea elastica* survey
- Cadastral boundary
- *Drakaea elastica* locations
- Flora traverses
- Roads



Job No: 56943

Client: Meynell Pty Ltd

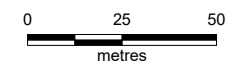
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Date 17/09/2019

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Checked By: RP

Scale 1:2,000



Goodwood Estate

ORCHID SURVEY AREA

FIGURE 1