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Emerge contact: Rachel Weber

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Attention: Vanessa Slater
Coordinator Natural Reserves
Shire of Serpentine Jarrahdale
6 Paterson Street
Mundijong WA 6123

Delivered by email to: vslater@sjshire.wa.gov.au

Dear Vanessa

TARGETED FLORA SURVEY – PART KINGSBURY DRIVE, KEYSBROOK

1 BACKGROUND

The Shire of Serpentine Jarrahdale (the Shire) are proposing to undertake vegetation clearing within parts of the road reserves of Kingsbury Drive in Serpentine (hereafter referred to as the 'site'). The site extends over 2.12 hectares (ha) as shown in **Figure 1**.

The Shire have submitted a clearing permit application to the Department of Water and Environmental Regulation (DWER). DWER have requested a targeted flora survey is undertaken to determine whether threatened or priority flora species occur within the site. In particular, DWER have identified *Pimelea rara* (Priority 4) as potentially occurring within the site.

2 METHODS

2.1 Field survey

Two botanists¹ from Emurge visited the site on 30 November 2021 to conduct the flora survey.

During the survey the site was traversed on foot and the vegetation was searched for threatened and priority flora species, with particular focus on searching for *Pimelea rara*. Where threatened or priority plants were identified the location of these was recorded using a handheld Garmin GPS unit.

Photographs were taken throughout the field visit to show particular site conditions.

2.2 Limitations

The survey was undertaken by suitably experienced botanists¹ and at an appropriate time of year to detect the species identified by DWER as potentially occurring. The site was covered comprehensively, and all parts of the site could be accessed as required. The location of threatened

¹ Both botanists who conducted the survey meet DWER's definition of 'a person who holds a tertiary qualification in environmental science or equivalent and has a minimum of 2 years work experience in identification and surveys of flora native to the bioregion being inspected or surveyed'.

and priority flora species was recorded with a handheld GPS receiver that has a precision of ± 5 metres (m).

3 RESULTS AND DISCUSSION

No threatened or priority flora species were recorded within the site. A single individual of *Verticordia plumosa* var. *ananeotes* which is listed as threatened under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) and the *Biodiversity Conservation Act 2016* (BC Act) was recorded immediately adjacent to the south-western portion of the site as shown in **Figure 2**. No additional individuals of *Verticordia plumosa* var. *ananeotes* or any other threatened or priority flora species were recorded adjacent to the site.

4 DISCUSSION

The site was surveyed comprehensively and no plants that are or could possibly be threatened or priority species were recorded. Therefore, it is considered unlikely that threatened or priority species occur in the site.

All remnant native plants were reviewed during the field survey and determined to not represent threatened or priority taxa. In particular, samples of two *Pimelea* species were collected, none of which were consistent with *Pimelea rara* or any other species of conservation significance.

A single *Verticordia plumosa* var. *ananeotes* plant was recorded immediately adjacent to the site as determined using on a handheld GPS receiver. The plant is considered to occur outside of the site. However, due to the spatial error of the GPS receiver being approximately ± 5 m, the location of the plant should be reviewed prior to clearing to confirm its location in relation to the proposed clearing extent.

Please note that Emerge are obliged under the BC Act to report the record of *Verticordia plumosa* var. *ananeotes* to the Department of Biodiversity, Conservation and Attractions. No report will be made without prior consultation of the Shire of Serpentine Jarrahdale.

Summary and closing

No threatened or priority flora species were recorded in the site. A single individual of the threatened flora species *Verticordia plumosa* var. *ananeotes* was recorded immediately adjacent to the site.

We trust that this letter provides sufficient details on the vegetation within the site. Should you have any questions regarding the content of this letter, please do not hesitate to contact the undersigned.

Yours sincerely
Emerge Associates



Rachel Weber

SENIOR ENVIRONMENTAL CONSULTANT, TEAM LEADER – ECOLOGY

cc: nil

Encl: Figure 1: Site Location
Figure 2: Threatened Flora Location

Figures



Figure 1: Site Location

Figure 2: Threatened Flora Location

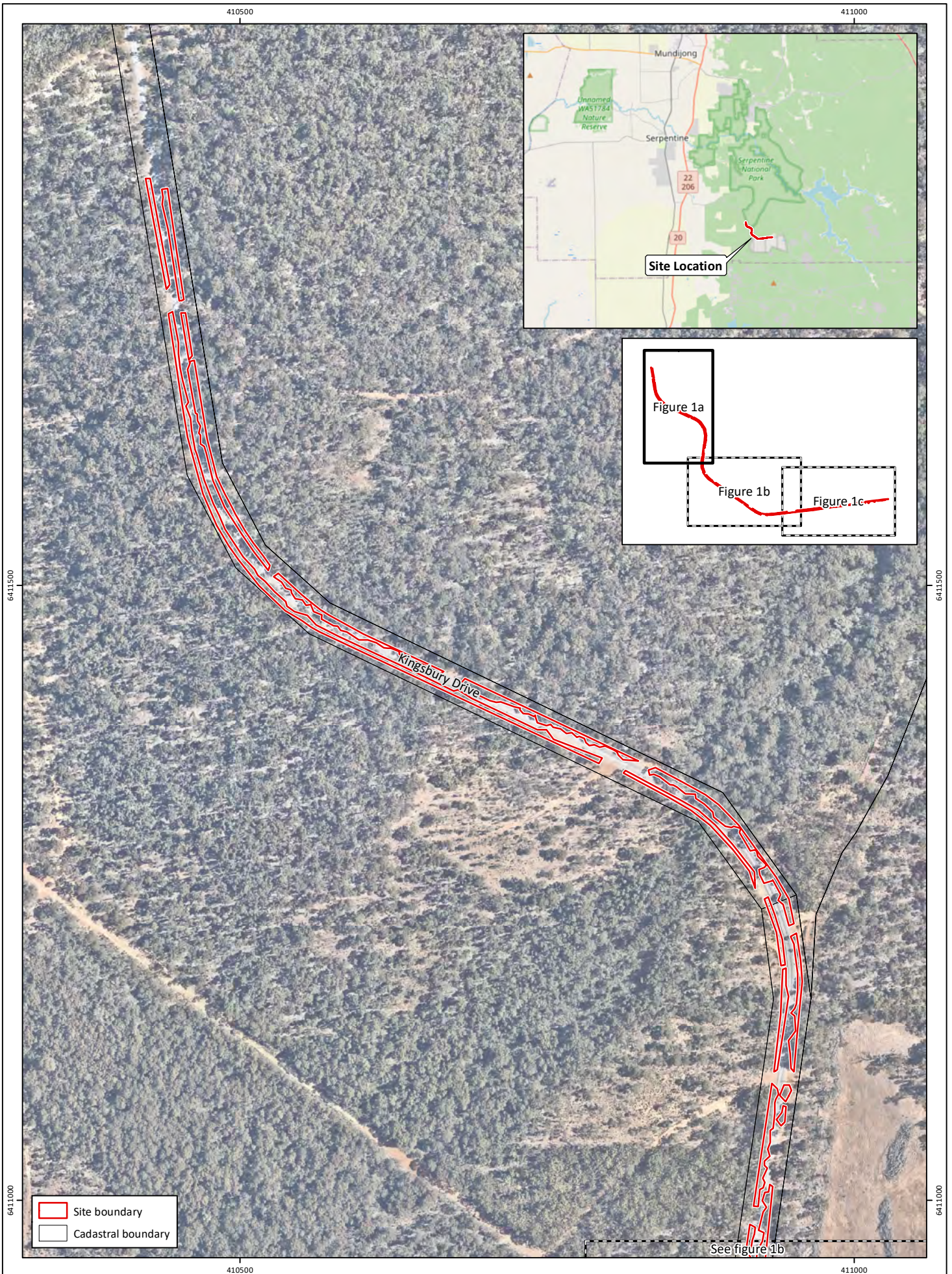


Figure 1a: Site Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number: EP21-122(01)-F01
Drawn: GAR
Date: 08/12/2021
Checked: MS
Approved: TAA
Date: 09/12/2021



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Metres
Scale: 1:4,000@A4
GDA 1994 MGA Zone 50



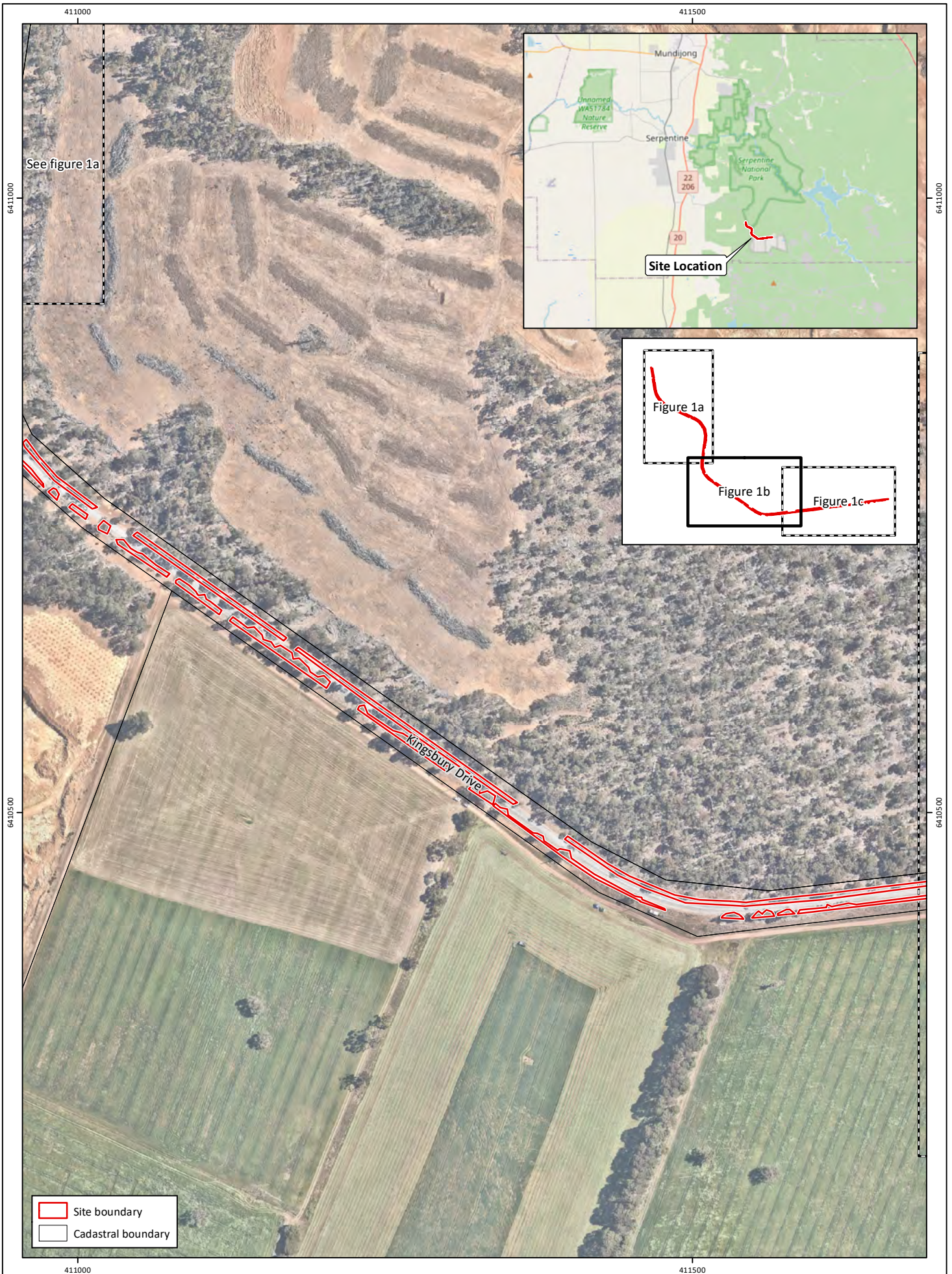


Figure 1b: Site Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number: EP21-122(01)-F01
Drawn: GAR
Date: 08/12/2021
Checked: MS
Approved: TAA
Date: 09/12/2021



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Metres
Scale: 1:4,000@A4
GDA 1994 MGA Zone 50



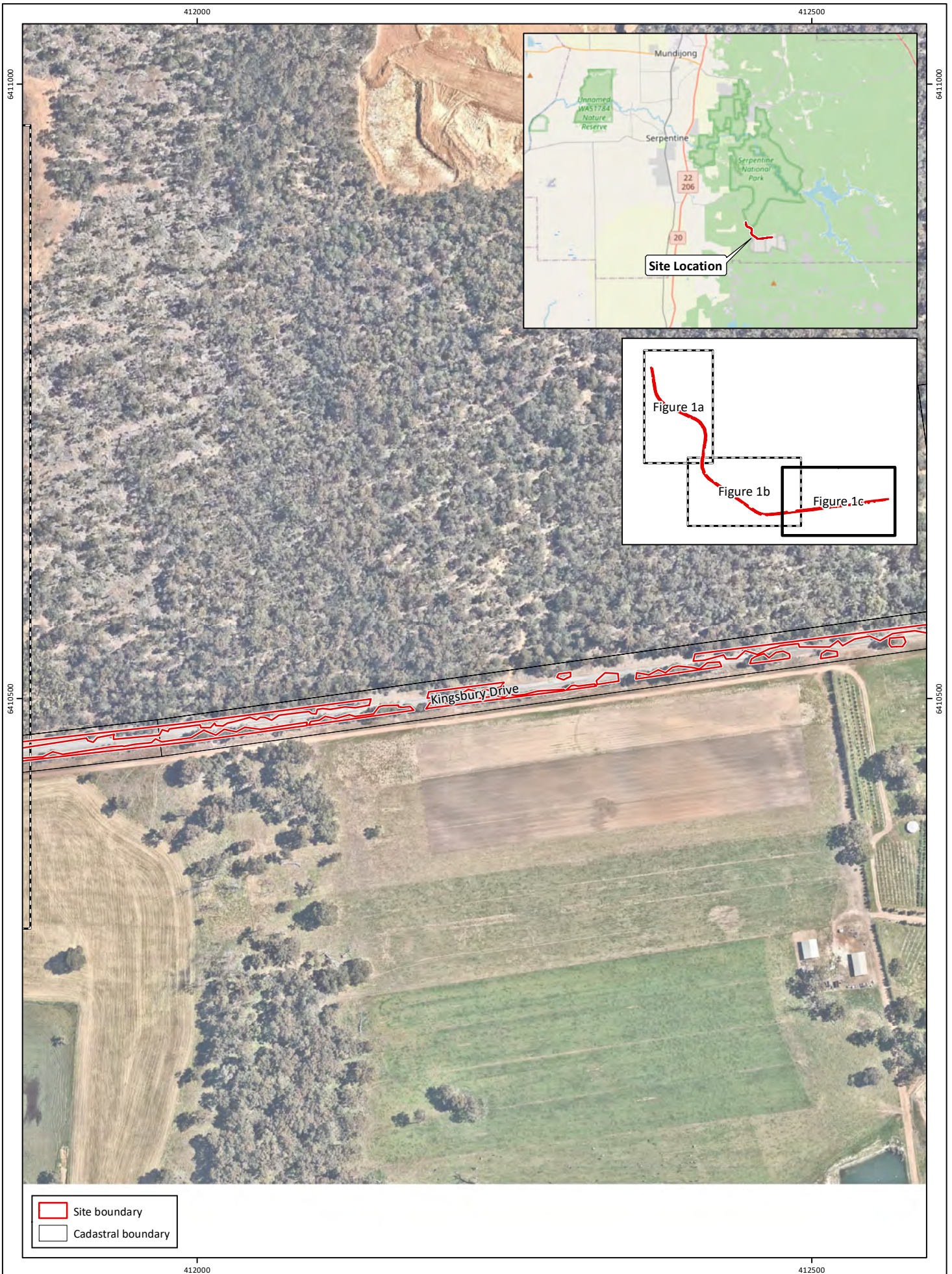


Figure 1c: Site Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number: EP21-122(01)-F01
Drawn: GAR
Date: 08/12/2021
Checked: MS
Approved: TAA
Date: 09/12/2021



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Metres
Scale: 1:4,000@A4
GDA 1994 MGA Zone 50



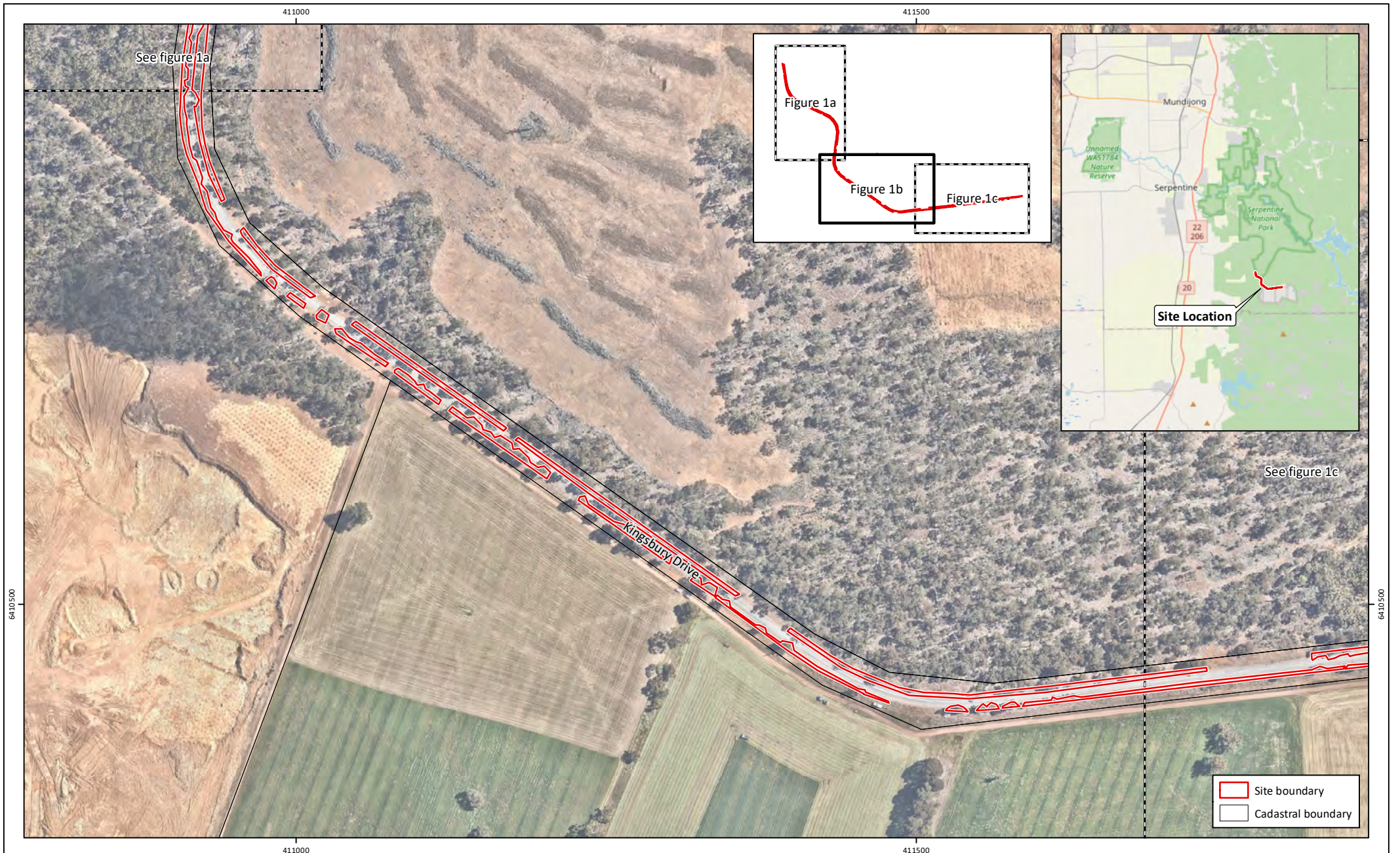


Figure 1b: Site Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number:
EP21-122(01)-F02

Drawn: GAR

Date: 08/12/2021

Checked: IMS

Approved: TAA

Date: 09/12/2021

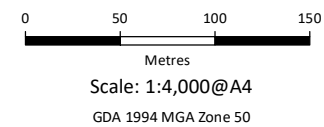




Figure 1c: Site Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number:
EP21-122(01)-F03

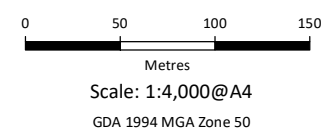
Drawn: GAR

Date: 08/12/2021

Checked: IMS

Approved: TAA

Date: 09/12/2021



While Emerge Associates makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no responsibility for externally sourced data used
©Landgate (2021). Nearmap Imagery date: 11/11/2021

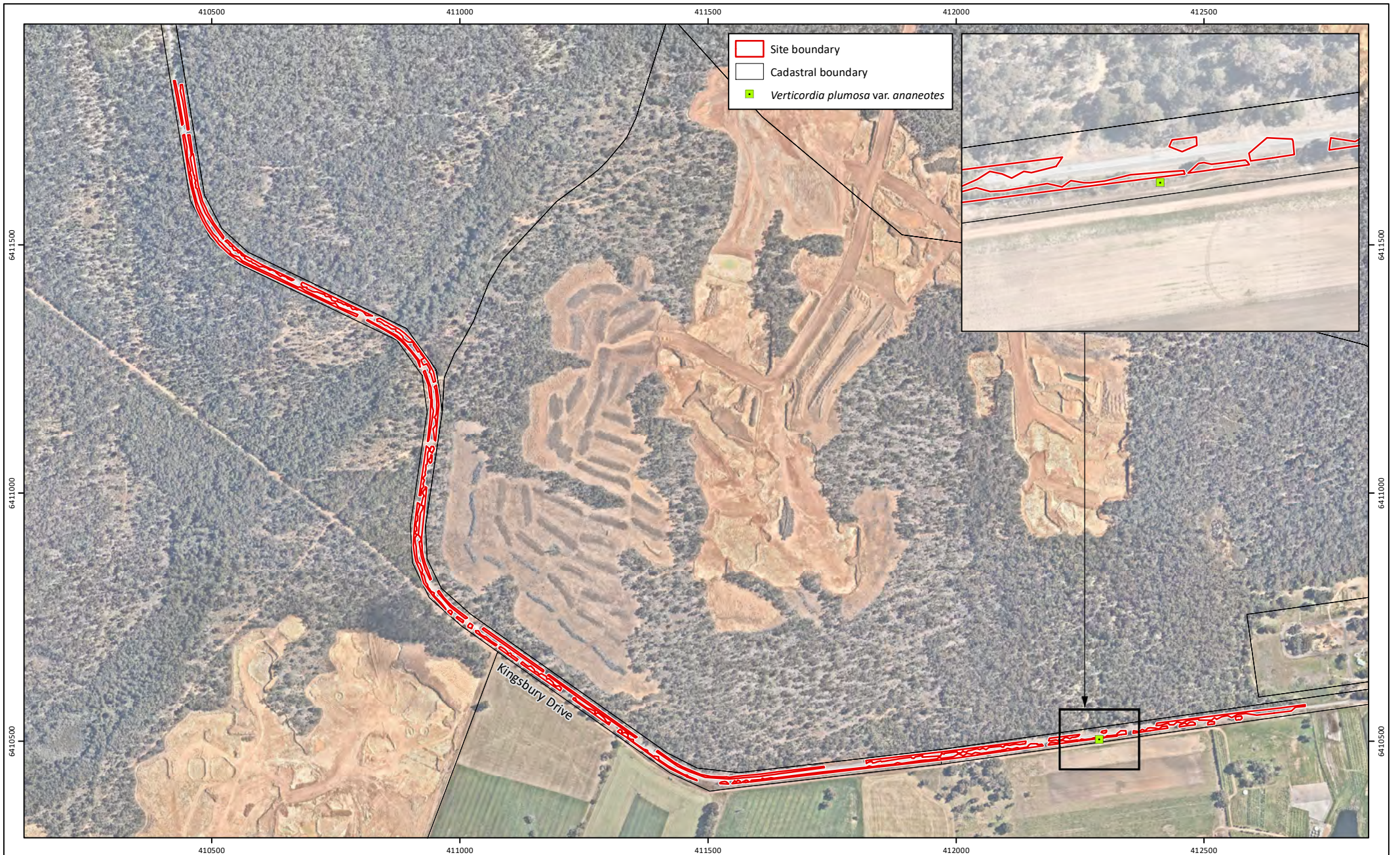


Figure 2: Threatened Flora Location

Project: Targeted Flora Survey
Part Kingsbury Drive, Keysbrook

Client: Shire of Serpentine Jarrahdale

Plan Number:
EP21-122(01)-F04

Drawn: GAR

Date: 08/12/2021

Checked: IMS

Approved: TAA

Date: 09/12/2021



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Metres
Scale: 1:2,000@A4
GDA 1994 MGA Zone 50

