TECHNICAL MEMORANDUM
Updated Biological Survey Report
Alkimos Beach Subdivision Support

PROJECT NUMBER	EP26-012(15)—V01	**DOC. NUMBER**	EP26-012(15)—V01
PROJECT NAME	Alkimos Beach Subdivision Support	**CLIENT**	Stockland
AUTHOR	DAW	**REVIEWER**	RAW
VERSION	1	**DATE**	24/08/2026

1 INTRODUCTION

This technical memorandum has been prepared to address the request from the Department of Planning, Lands and Heritage (DPLH) for an updated biological survey report to support the proposed clearing at Alkimos Beach Foreshore Area Batter – (Lot 9060) Leatherback Boulevard.

2 SCOPE

Field investigations were initially undertaken on 22 April 2026, with a subsequent survey completed on 19 August 2026 to address the requirements identified by DPLH.

The survey assessed the full extent of the proposed works, including the proposed batter footprint and a 2 m wide buffer surrounding the works area (the Survey Area). The Survey Area comprises 0.09 ha and the assessment involved mapping and assessment of all vegetation within the survey area, including areas identified as completely degraded.

The survey scope included:

- assessment and mapping of vegetation units and condition
- assessment of potential fauna habitat
- identification of any environmental constraints relevant to the Survey Area.

3 METHODOLOGY

Two site visits were undertaken by a qualified ecologist on 22 April 2026 and 19 August 2026. The assessment comprised a reconnaissance level vegetation assessment and basic fauna assessment.

Vegetation was assessed based on species composition, vegetation structure and condition. Vegetation condition was assessed using the Keighery (1994) vegetation condition scale. Field observations were used to identify and delineate vegetation units and assess potential fauna habitat values.

The assessment was undertaken at a reconnaissance level and did not include detailed floristic quadrat sampling, statistical analysis or formal Floristic Community Type (FCT) analysis.

4 RESULTS

The findings of the 19 August 2026 survey were consistent with those of the previous biological investigation completed 22 April 2026 within the Survey Area.

No changes to the previously mapped vegetation units, vegetation condition or identified environmental constraints were identified during the subsequent survey.

4.1 Flora and Vegetation

Vegetation units and vegetation condition are presented in **Table 1** and **Figure 1.**

The Survey Area comprises two vegetation units: **SgLm**, representing native shrubland, and **predominantly non-native**, comprising highly disturbed areas dominated by non-native vegetation.

The **SgLm** vegetation was assessed as being in very good condition and is considered likely to represent FCT 29b, *Acacia* shrublands on taller dunes. No formal FCT assessment or statistical analysis was undertaken as part of the reconnaissance survey and therefore, this identification remains indicative. FCT 29b is listed as a priority 3 (P3) priority ecological community (PEC) in Western Australia.

No threatened flora species were recorded within the **SgLm** vegetation unit. The relatively intact native vegetation within the **SgLm** unit provides potential habitat for native flora species, including species listed as priority in Western Australia.

Two plants displaying characteristics broadly consistent with the priority 4 (P4) taxon *Conostylis pauciflora* subsp. *euryhipis* were recorded within the **SgLm** vegetation. The plants were not flowering at the time of the surveys and therefore, could not be confirmed to the taxonomic level required to verify their identity. However, based on observed leaf morphology, the plants were considered by Emerge to likely to represent *C. pauciflora* subsp. *euryhipis*.

The locations of the potentially significant flora records are shown in **Figure 2** and FCT 29b in **Figure 3.**

Table 1: Vegetation unit and condition

Vegetation unit name	Vegetation unit description	Vegetation condition	Extent (ha)
SgLm	Native shrubland of Spyridium globulosum, *Exocarpos sparteus, Melaleuca systena, Olearia axillaris, Acacia lasiocarpa, Hardenbergia comptoniana, Leucopogon parviflorus*, *Leucopogon insularis*, Over forbland *Lomandra maritima*, *Acanthocarpus preissii* and *Desmocladus flexuosus* and scattered grasses *Austrostipa* spp. with non-native *Lagurus ovatus, Pelargonium capitatum, Romulea rosea* and *Euphorbia terracina.*	Very good	0.02
Predominantly non-native	Highly disturbed areas comprising dense cover of non-native grasses such as *Eragrostis curvula* and *Ehrharta longifolia* with non-native herbs such as *Pelargonium capitatum*, O*enothera drummondii* subsp. *drummondii and Trachyandra divaricata.* Scattered native plants such as *Acacia rostellifera and Hardenbergia comptoniana.*	Completely degraded	0.07



Plate 1: Southern area: bare ground and weeds with scattered native plants in completely degraded condition.



Plate 2: Southern area: bare ground and weeds with scattered native plants in completely degraded condition (right hand side).



Plate 3: Vegetation adjacent to the southern area, in degraded condition near the batter area (right) and good condition further away from the batter area (left).



Plate 4: Northern Area applied for clearing supporting SgLm vegetation unit.

4.2 Fauna

The fauna assessment identified two broad fauna habitat types within the Survey Area: **shrubland** and **grassland**, as described in **Table 2** and presented in **Figure 4.**

The vegetation within the Survey Area does not provide suitable black cockatoo breeding, roosting or foraging habitat. No black cockatoo breeding habitat trees occur within the Survey Area as it comprises shrubland vegetation and bare ground. The vegetation does not contain suitable foraging resources of sufficient value to constitute black cockatoo foraging habitat.

Table 2: Fauna habitat

Fauna habitat name	Fauna habitat description
Shrubland	Native shrubland over native herbs and grasses. Provides habitat for a range of native fauna species and would be used in combination with adjacent habitat.
Grassland	Highly disturbed areas comprising non-native grasses and herbs with scattered native shrubs. Provides limited habitat for native fauna due to low microhabitat diversity and lack of refuge habitat.

5 REFERENCES

Keighery, B. 1994, *Bushland Plant Survey: A guide to plant community survey for the community*, Wildflower Society of WA (Inc), Nedlands.

Figures

Figure 1: Survey Area Location

Figure 2: Plant Communities and Priority Flora

Figure 3: Priority Ecological Community

Figure 4: Fauna Habitat



Figure 1: Site Location

Project:	Clearing Permit - Alkimos Beach Foreshore Area Batter - (Lot 9060) Leatherback Boulevard
Client:	WAPC

Plan Number: EP18-012(15)--F39

Drawn:	KC
Date:	25/08/2026
Checked:	DAW
Approved:	DAW
Date:	27/08/2026

N

0 10 20
Metres

Scale: 1:800@A4

GDA 1994 MGA Zone 50

emerge ASSOCIATES

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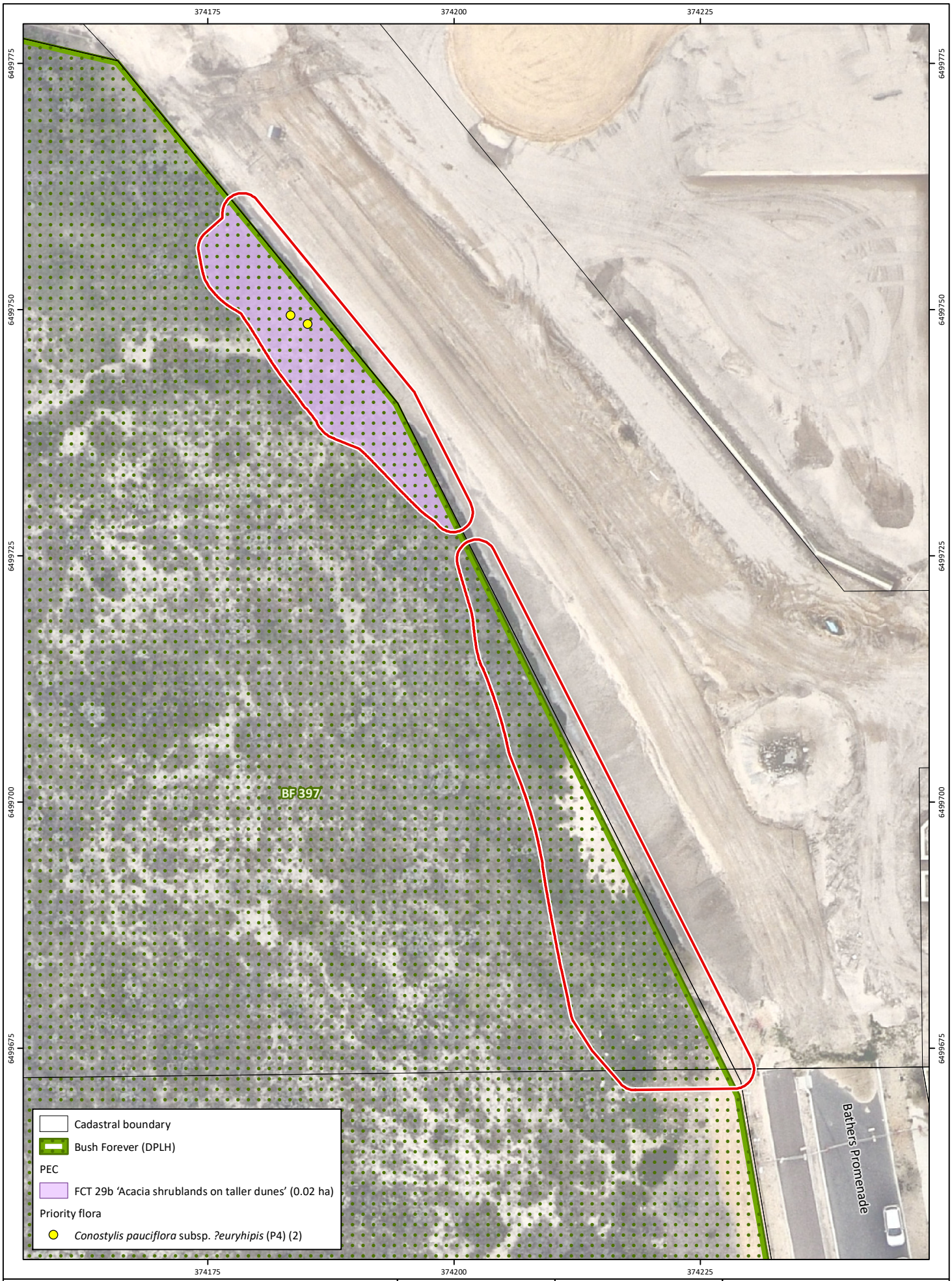


Figure 2: Clearing Area Impact

Project:	Clearing Permit - Alkimos Beach Foreshore Area Batter - (Lot 9060) Leatherback Boulevard
Client:	WAPC

Plan Number: EP18-012(15)--F40

Drawn:	KC
Date:	25/08/2026
Checked:	DAW
Approved:	DAW
Date:	27/08/2026

N

0 6.5 13
Metres

Scale: 1:500@A4

GDA 1994 MGA Zone 50

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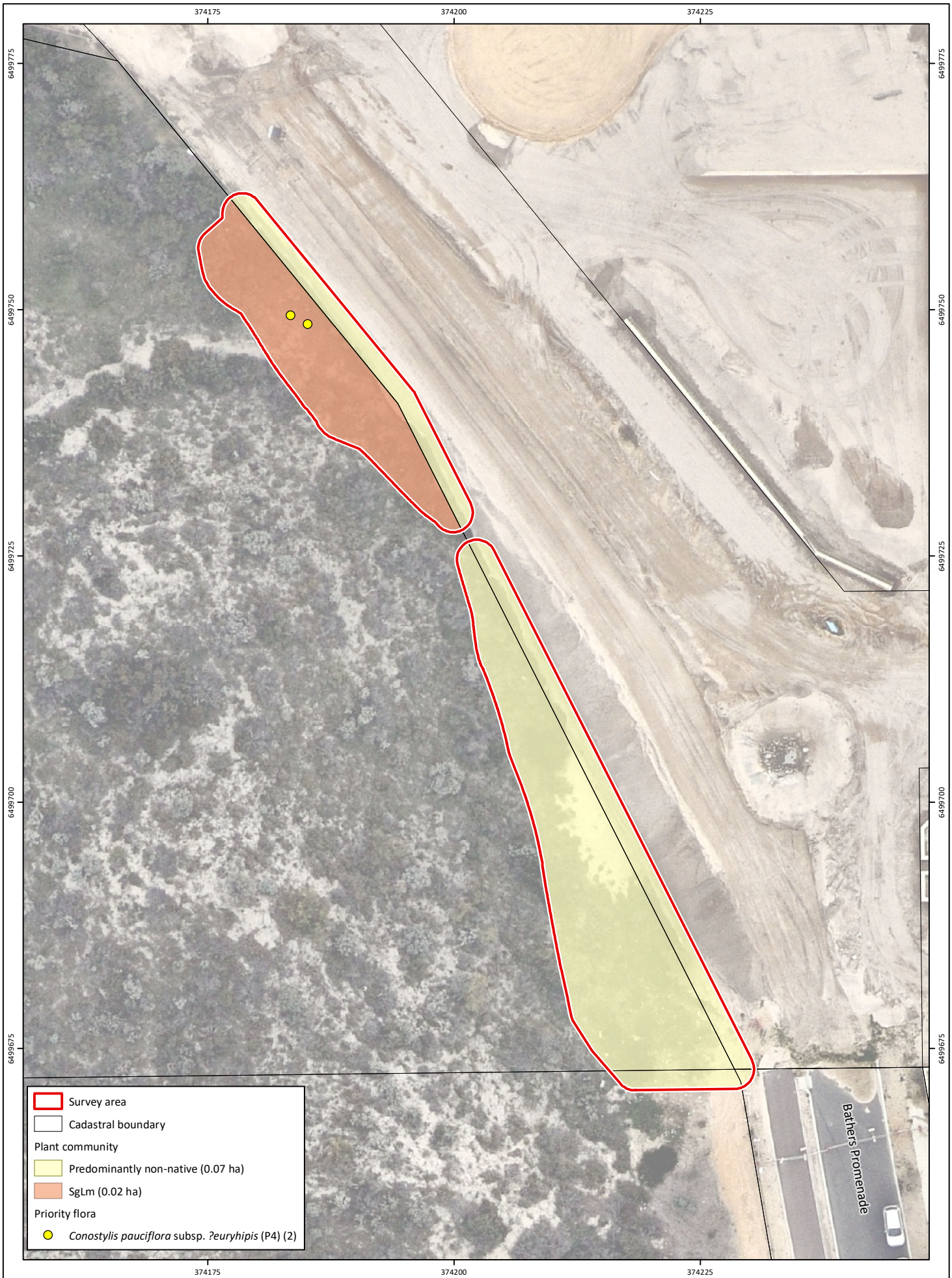


Figure 3: Plant Communities and Priority Flora

Project:	Clearing Permit - Alkimos Beach Foreshore Area Batter - (Lot 9060) Leatherback Boulevard
Client:	WAPC

Plan Number: EP18-012(15)--F41

Drawn:	KC
Date:	25/08/2026
Checked:	DAW
Approved:	DAW
Date:	27/08/2026

N

0 6.5 13

Metres

Scale: 1:500@A4

GDA 1994 MGA Zone 50

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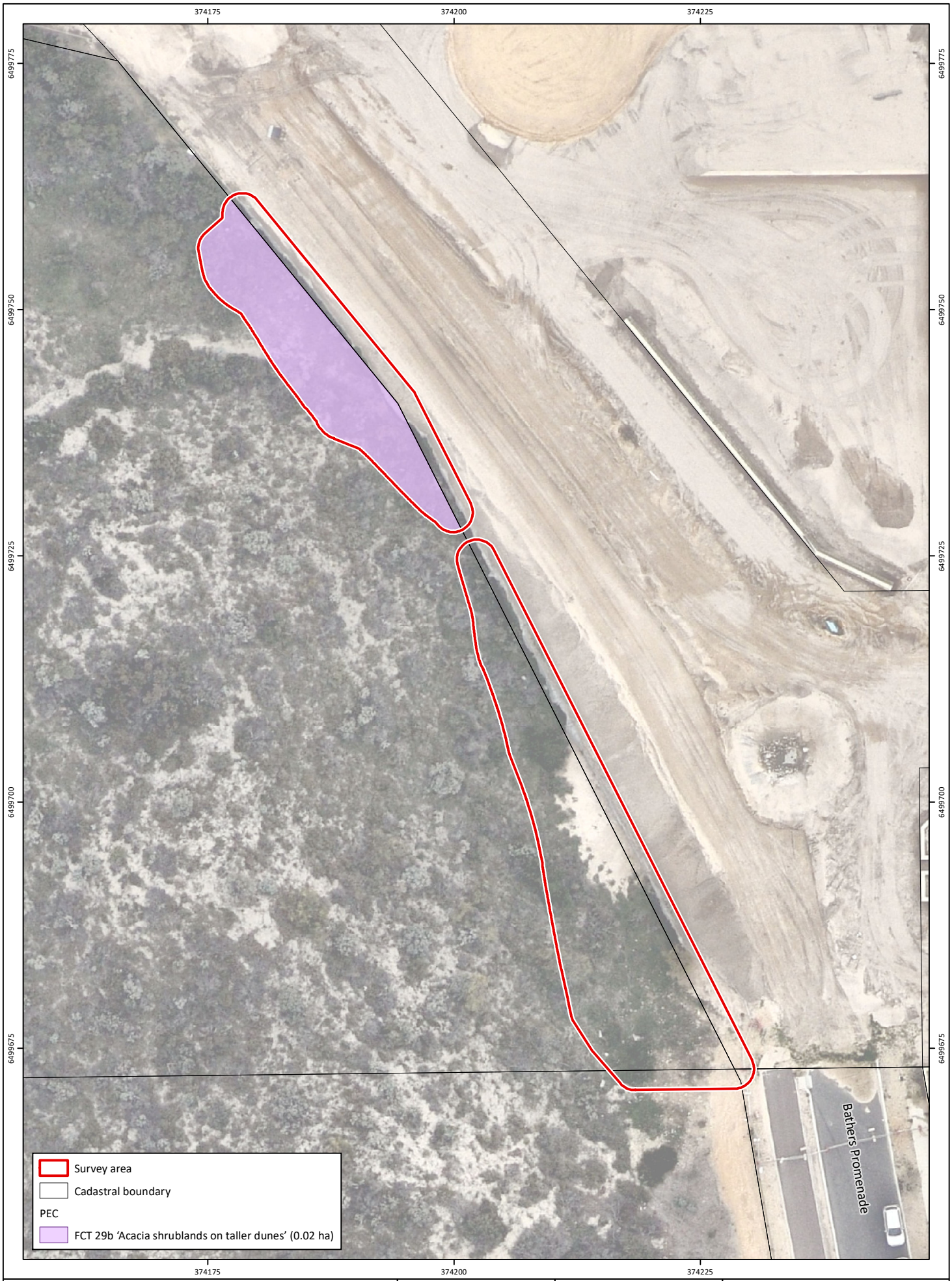


Figure 4: Priority Ecological Community

Project:	Clearing Permit - Alkimos Beach Foreshore Area Batter - (Lot 9060) Leatherback Boulevard
Client:	WAPC

Plan Number: EP18-012(15)--F42

Drawn:	KC
Date:	25/08/2026
Checked:	DAW
Approved:	DAW
Date:	27/08/2026

N

0 6.5 13
Metres

Scale: 1:500@A4

GDA 1994 MGA Zone 50

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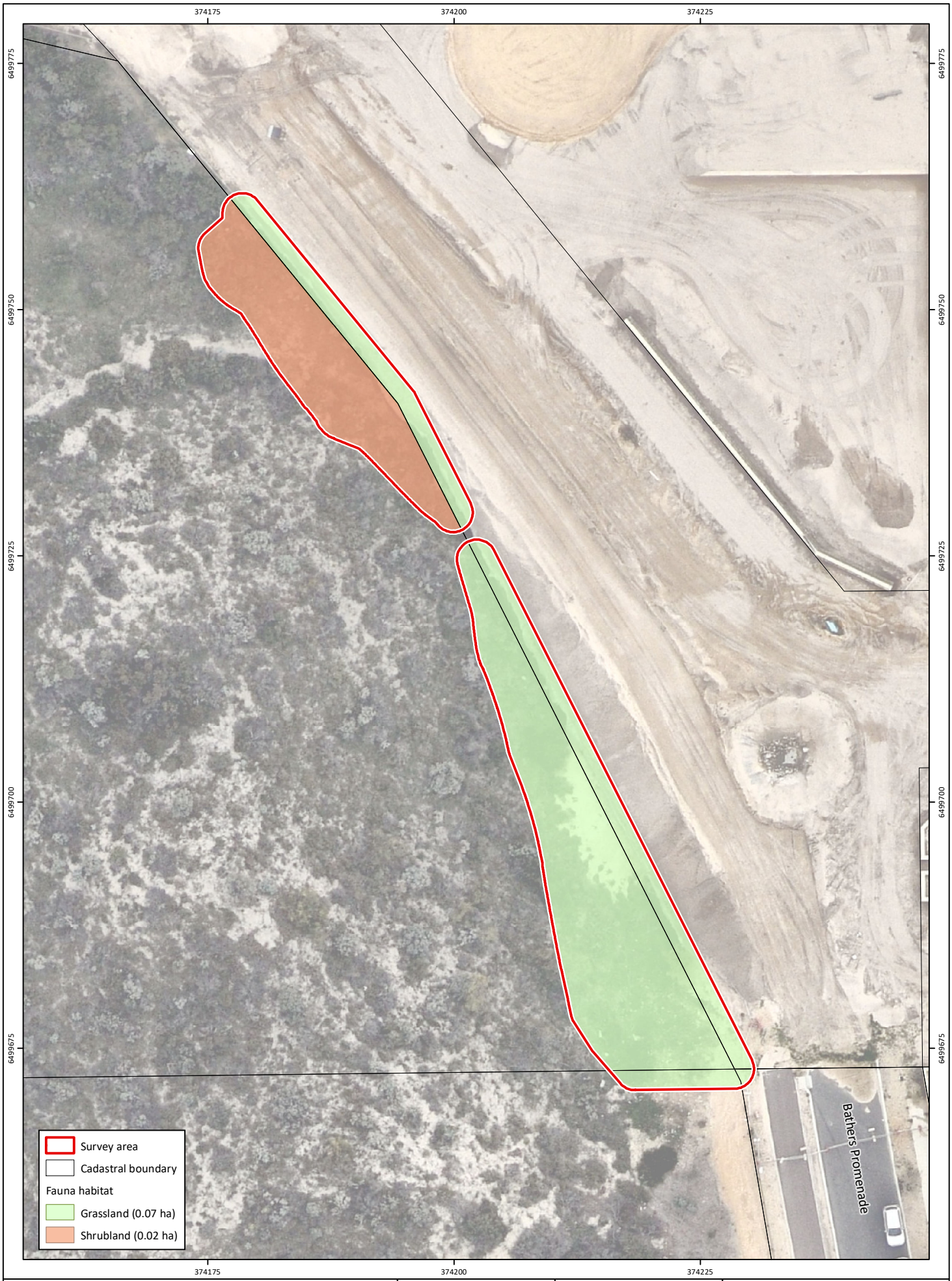


Figure 5: Fauna Habitat

Project:	Clearing Permit - Alkimos Beach Foreshore Area Batter - (Lot 9060) Leatherback Boulevard
Client:	WAPC

Plan Number:
EP18-012(15)--F43

Drawn:	WJC
Date:	04/05/2026
Checked:	DRAFT
Approved:	DRAFT
Date:	--/--/----

N

0 6.5 13
Metres

Scale: 1:500@A4

GDA 1994 MGA Zone 50

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