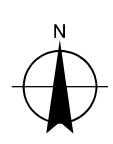
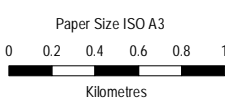
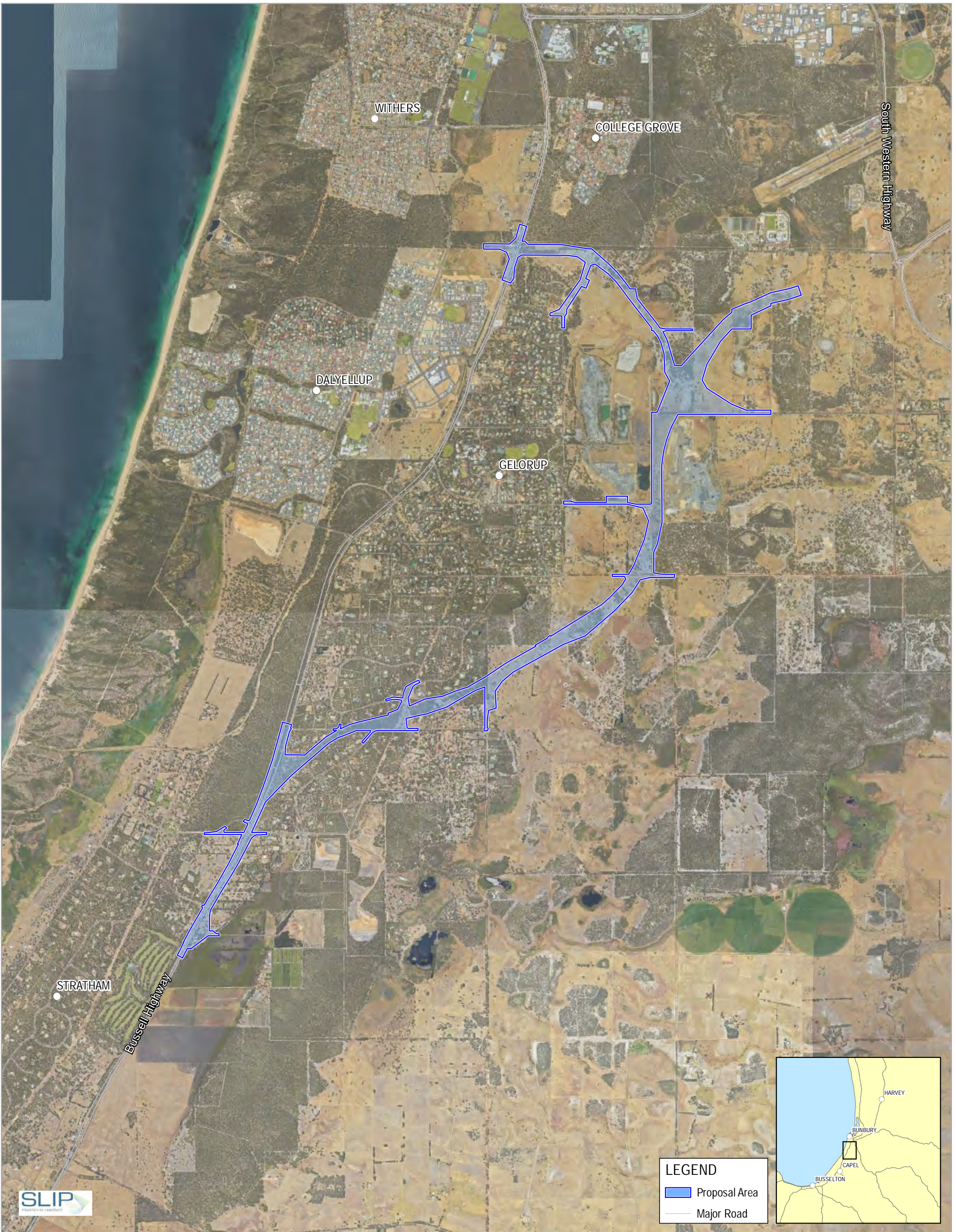


Figures

- Figure 1 Proposal Area
- Figure 2 Land Use Type
- Figure 3 Design Drawings
- Figure 4 2012 Referral Project Area and Southern Section Alternative Alignment
- Figure 5 Vegetation Types within the Proposal Area
- Figure 6 TEC extent within the Proposal Area
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- Figure 10 Distribution of Black Cockatoo habitat within the Proposal Area with suitable DBH trees and nesting hollows shown
- Figure 11 Distribution of Western Ringtail Possums with habitat types and extent within the Proposal Area
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- Figure 14 Flora and vegetation studies undertaken for the Proposal
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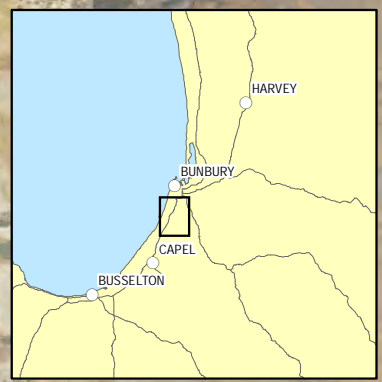
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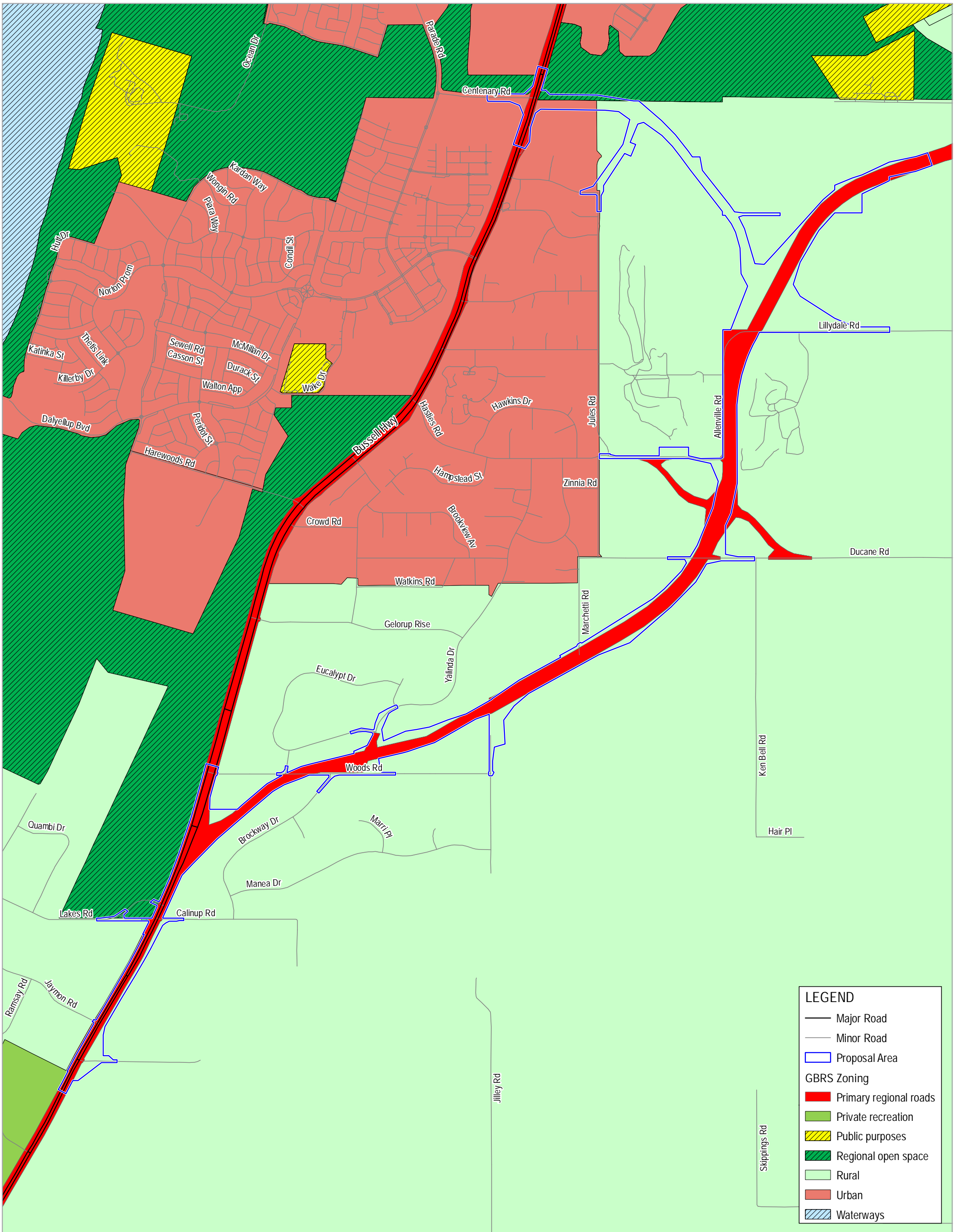
- Proposal Area
- Major Road



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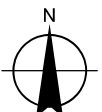
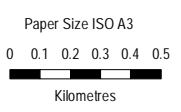
Proposal Area

FIGURE 1



LEGEND

- Major Road
- Minor Road
- ▭ Proposal Area
- GBRS Zoning**
- ▭ Primary regional roads
- ▭ Private recreation
- ▨ Public purposes
- ▨ Regional open space
- ▭ Rural
- ▭ Urban
- ▨ Waterways



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994

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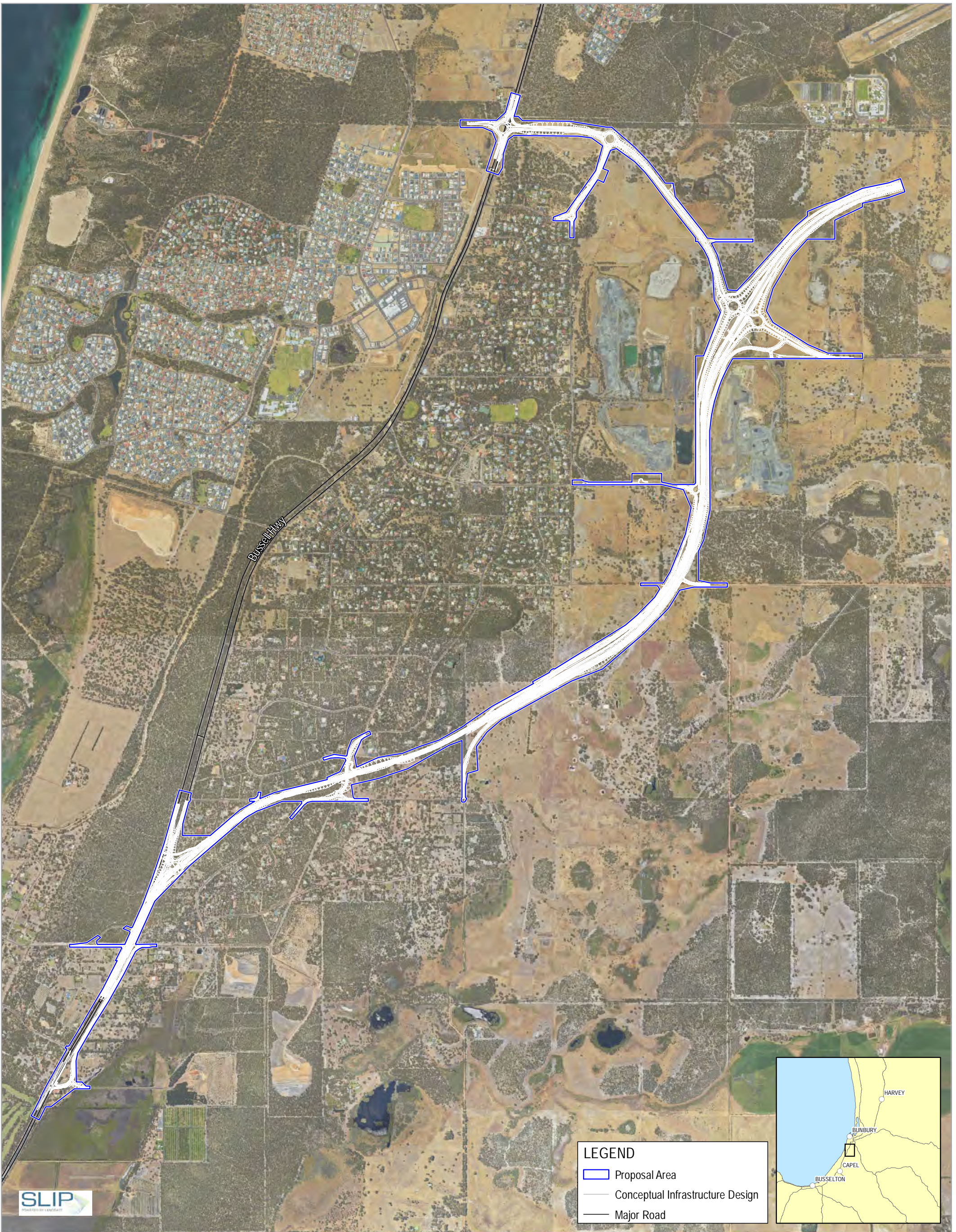
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Land use type

FIGURE 2

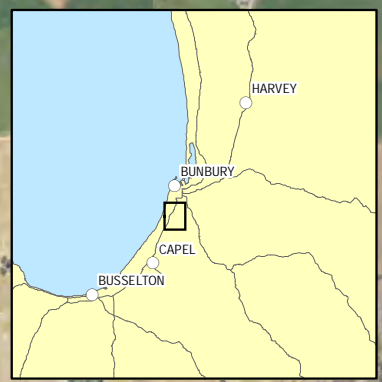
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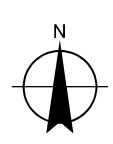


LEGEND

- Proposal Area
- Conceptual Infrastructure Design
- Major Road



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Map Projection: Transverse Mercator
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 Conceptual Infrastructure Design

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FIGURE 3



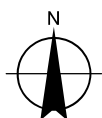
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- GBRS Alignment (Investigated)
- Alternative Alignment (Investigated)
- Other Alignment Concepts (Not Investigated)
- Major Road



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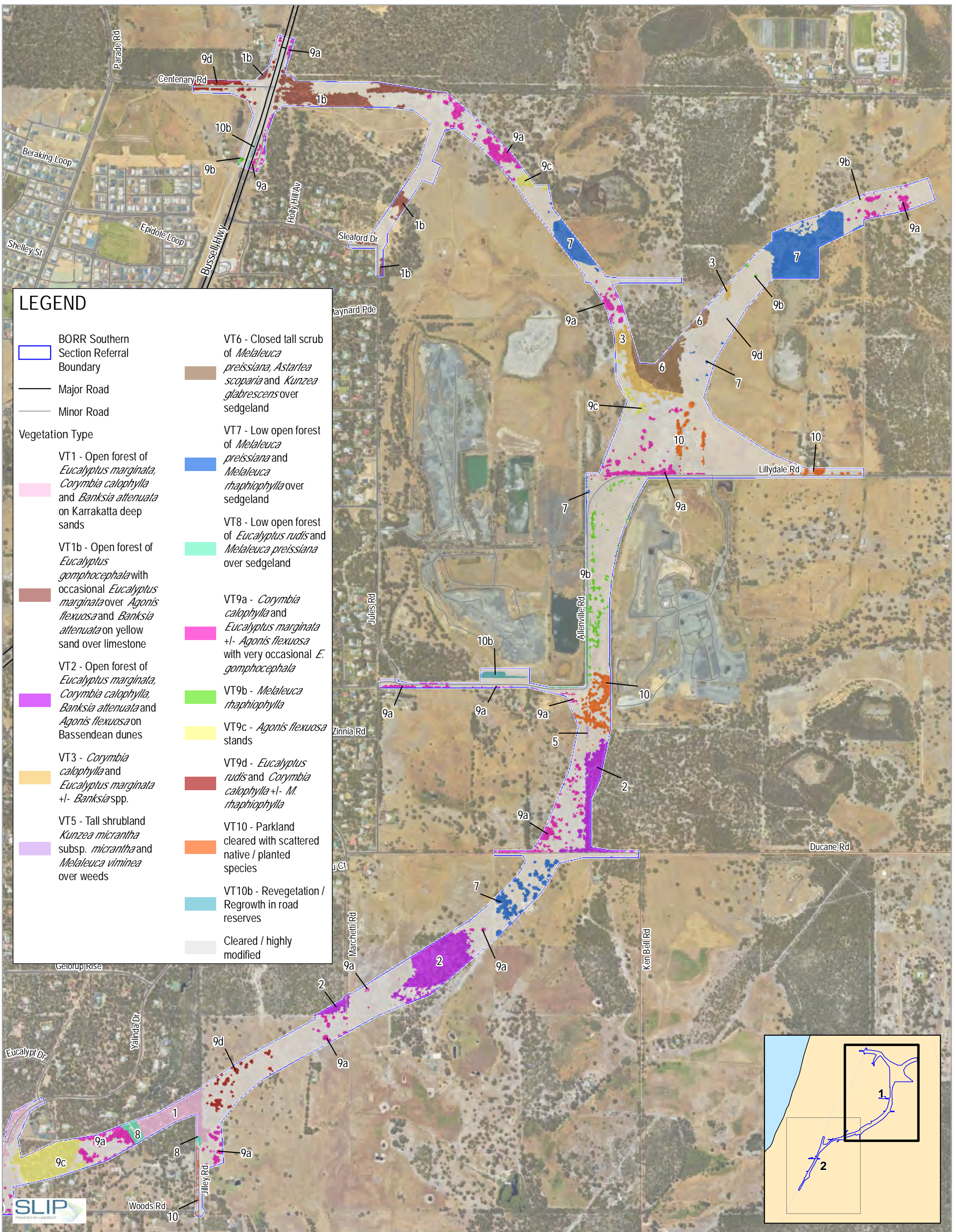


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Proposal alternatives considered

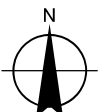
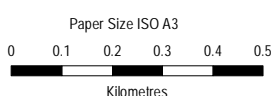
Project No. 61-37041
 Revision No. 0
 Date 9/07/2020

FIGURE 4



LEGEND

- BORR Southern Section Referral Boundary
 - Major Road
 - Minor Road
- Vegetation Type**
- VT1 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla* and *Banksia attenuata* on Karrakatta deep sands
 - VT1b - Open forest of *Eucalyptus gomphocephala* with occasional *Eucalyptus marginata* over *Agonis flexuosa* and *Banksia attenuata* on yellow sand over limestone
 - VT2 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla*, *Banksia attenuata* and *Agonis flexuosa* on Bassendean dunes
 - VT3 - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Banksia* spp.
 - VT5 - Tall shrubland *Kunzea micrantha* subsp. *micrantha* and *Melaleuca viminea* over weeds
 - VT6 - Closed tall scrub of *Melaleuca preissiana*, *Astartea scoparia* and *Kunzea glabrescens* over sedgeland
 - VT7 - Low open forest of *Melaleuca preissiana* and *Melaleuca raphiophylla* over sedgeland
 - VT8 - Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sedgeland
 - VT9a - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Agonis flexuosa* with very occasional *E. gomphocephala*
 - VT9b - *Melaleuca raphiophylla*
 - VT9c - *Agonis flexuosa* stands
 - VT9d - *Eucalyptus rudis* and *Corymbia calophylla* +/- *M. raphiophylla*
 - VT10 - Parkland cleared with scattered native / planted species
 - VT10b - Revegetation / Regrowth in road reserves
 - Cleared / highly modified



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



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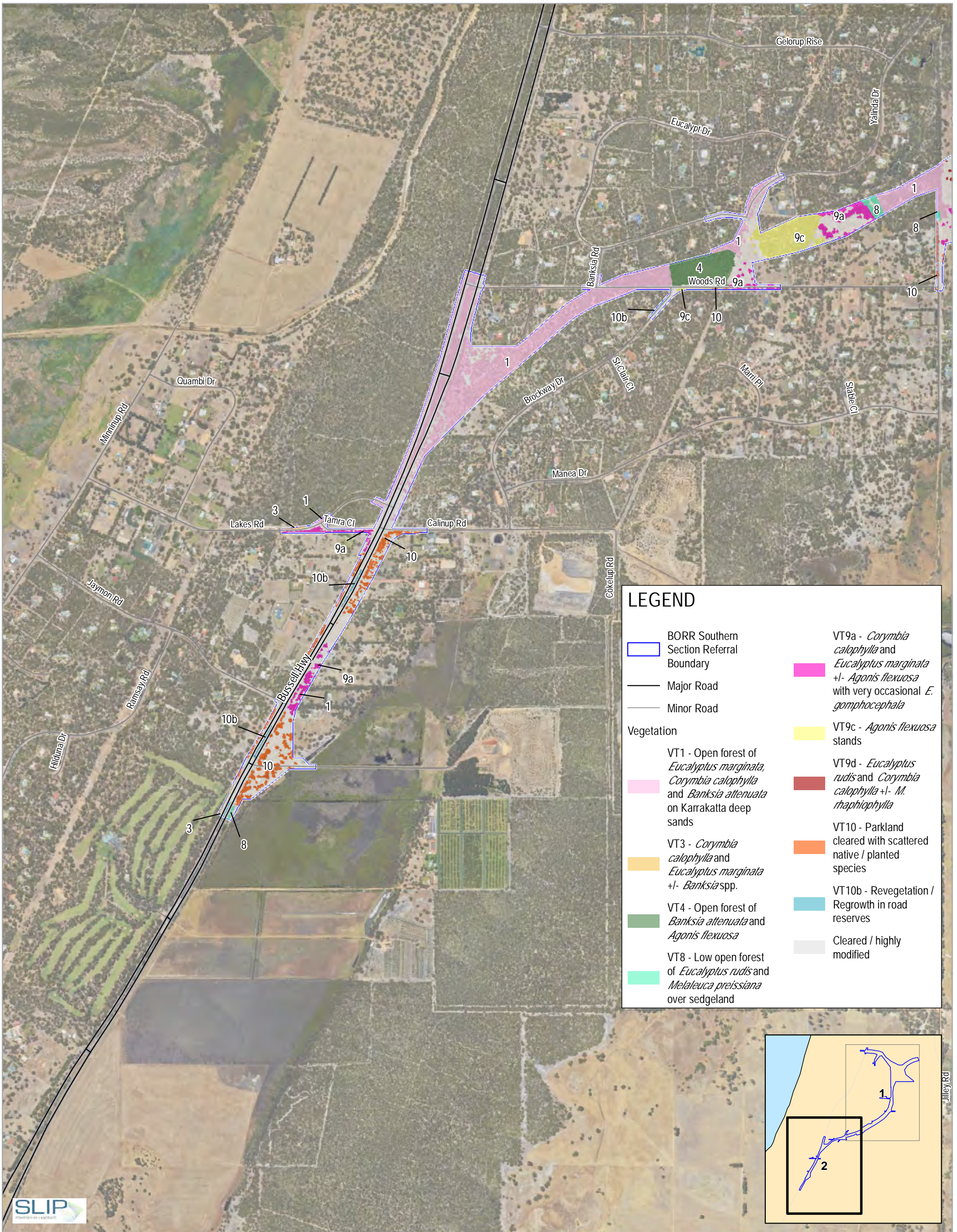
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 Date 09 Jul 2020

Vegetation Types within the Proposal Area

FIGURE 9

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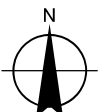
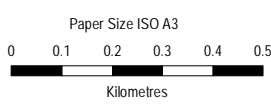


LEGEND

- BORR Southern Section Referral Boundary
- Major Road
- Minor Road

Vegetation

- VT1 - Open forest of *Eucalyptus marginata*, *Corymbia calophylla* and *Banksia attenuata* on Karrakatta deep sands
- VT3 - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Banksia* spp.
- VT4 - Open forest of *Banksia attenuata* and *Agonis flexuosa*
- VT8 - Low open forest of *Eucalyptus rudis* and *Melaleuca preissiana* over sedgeland
- VT9a - *Corymbia calophylla* and *Eucalyptus marginata* +/- *Agonis flexuosa* with very occasional *E. gomphocephala*
- VT9c - *Agonis flexuosa* stands
- VT9d - *Eucalyptus rudis* and *Corymbia calophylla* +/- *M. raphiophylla*
- VT10 - Parkland cleared with scattered native / planted species
- VT10b - Revegetation / Regrowth in road reserves
- Cleared / highly modified



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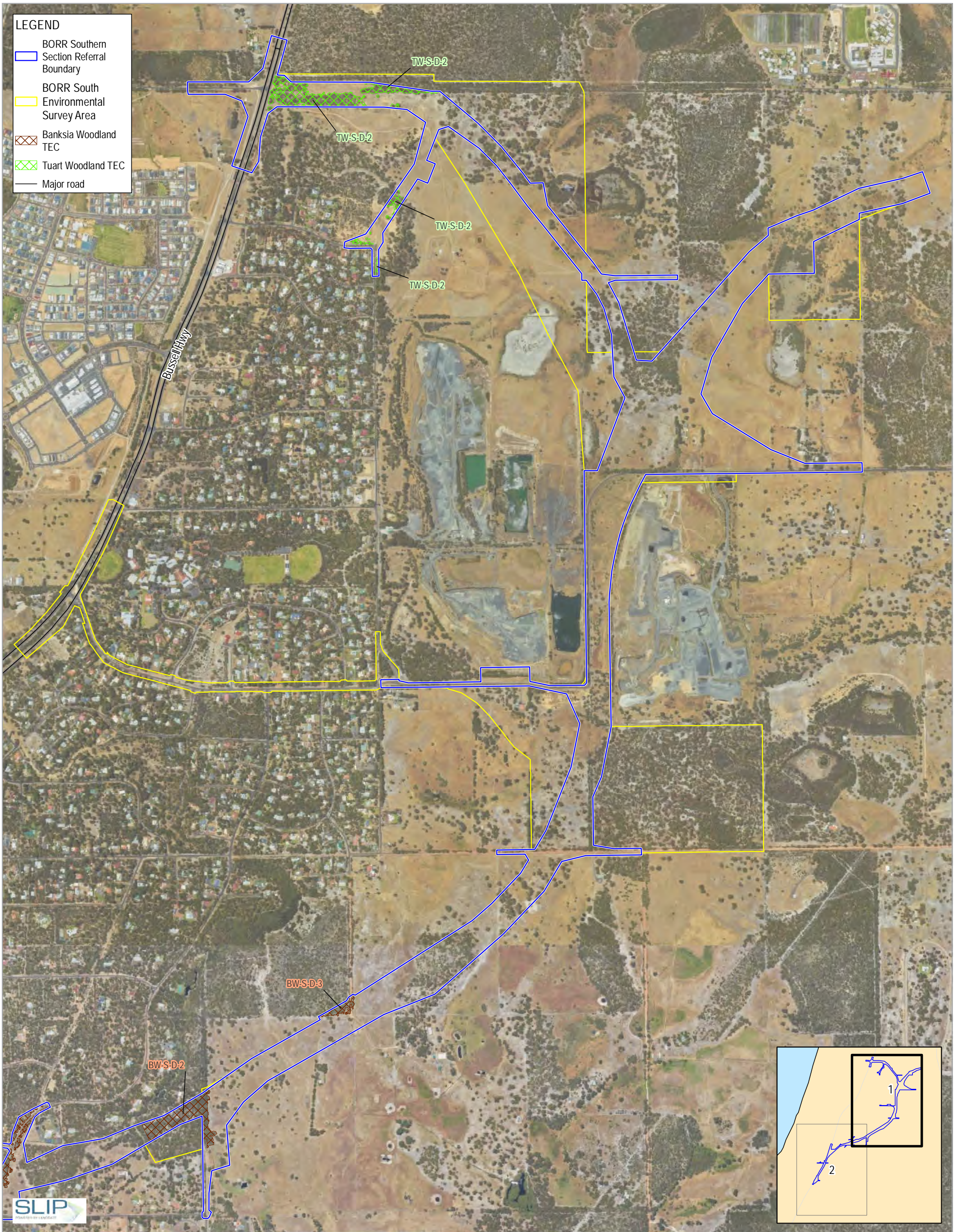
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Vegetation Types within
the Proposal Area

Page 2 of 2
FIGURE 9

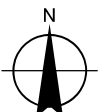
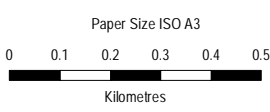
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LEGEND

- BORR Southern Section Referral Boundary
- BORR South Environmental Survey Area
- Banksia Woodland TEC
- Tuart Woodland TEC
- Major road



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
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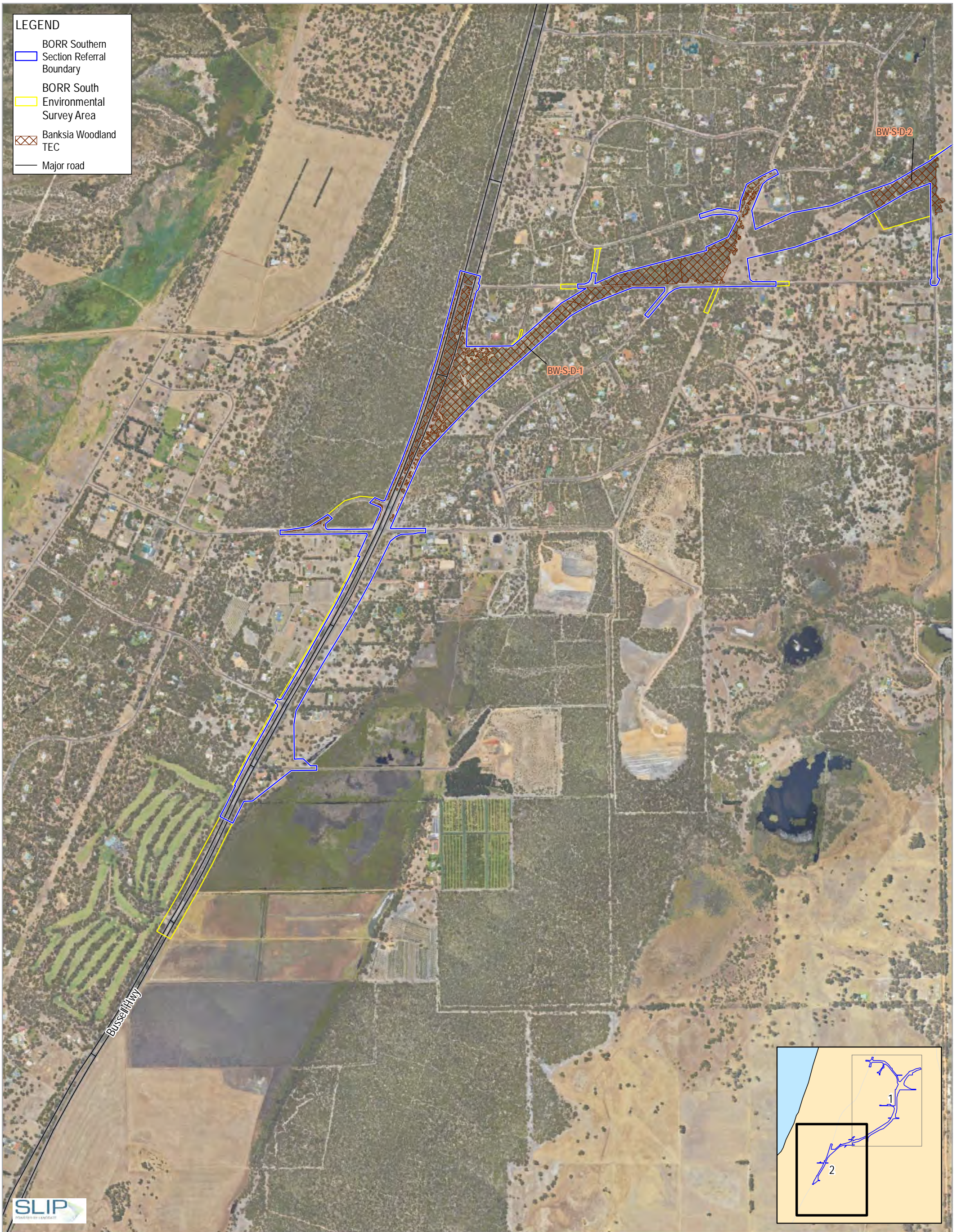
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Revision No. 0
Date 9/07/2020

TEC extent within
the Proposal Area (direct impacts)

Page 1 of 2
FIGURE 6

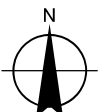
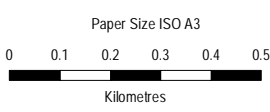
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LEGEND

- BORR Southern Section Referral Boundary
- BORR South Environmental Survey Area
- Banksia Woodland TEC
- Major road



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 50

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TEC extent within
the Proposal Area (direct impacts)

Page 2 of 2
FIGURE 6

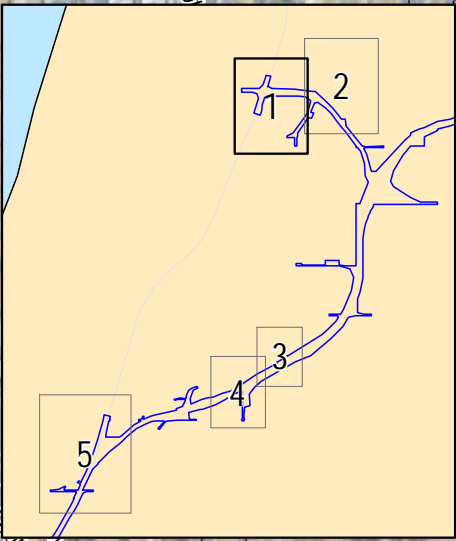
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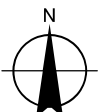
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- ▭ BORR Southern Section Referral Boundary
- ▨ Banksia Woodland TEC/PEC
- ▨ Tuart Woodland TEC/PEC



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Grid: GDA 1994 Perth Coastal Grid 1994



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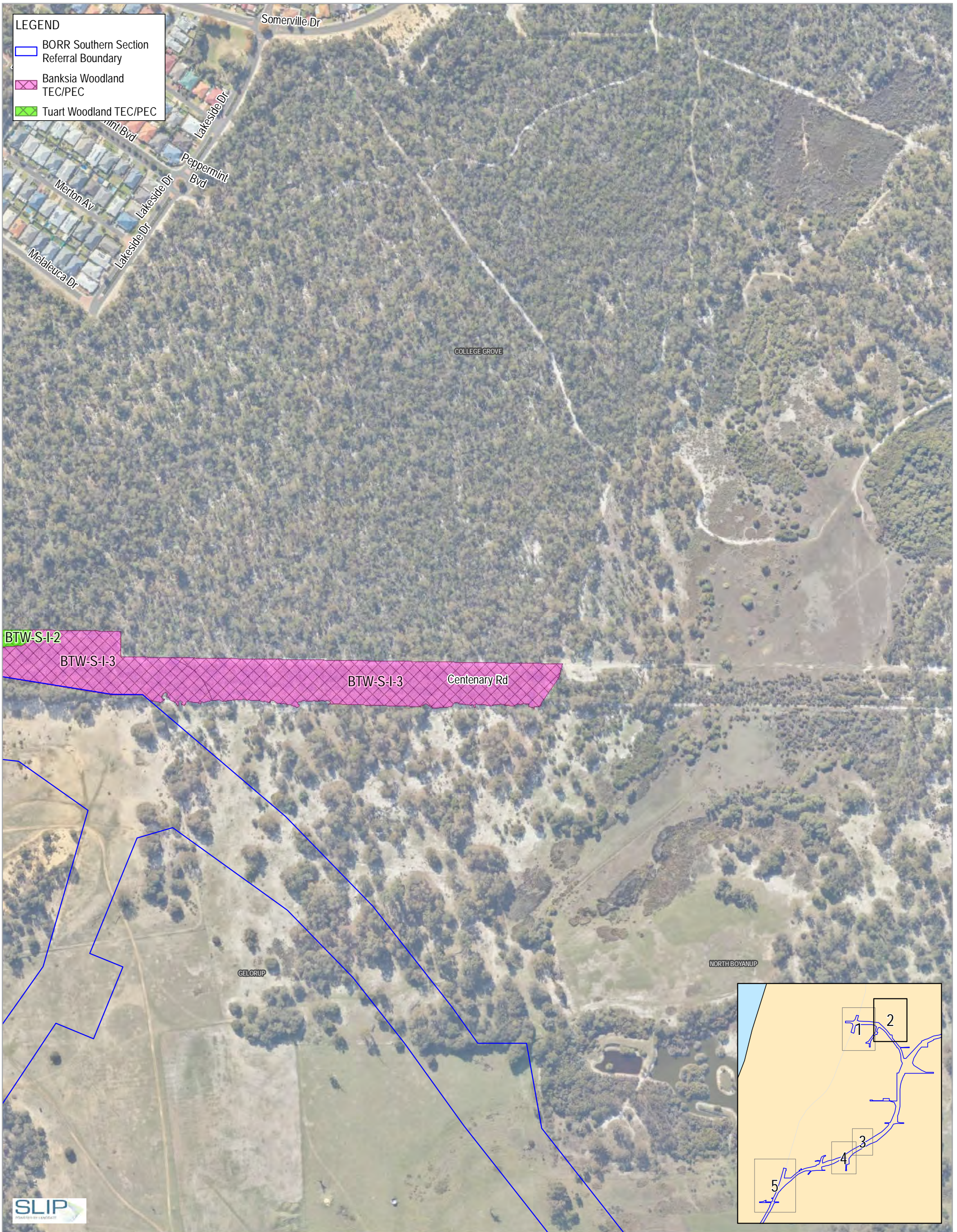
Main Roads Western Australia
Bunbury Outer Ring Road Southern Section
EPBC ARI

TEC extent adjacent to the Proposal Area
(indirect impacts)




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Revision No. 0
Date 6/10/2020

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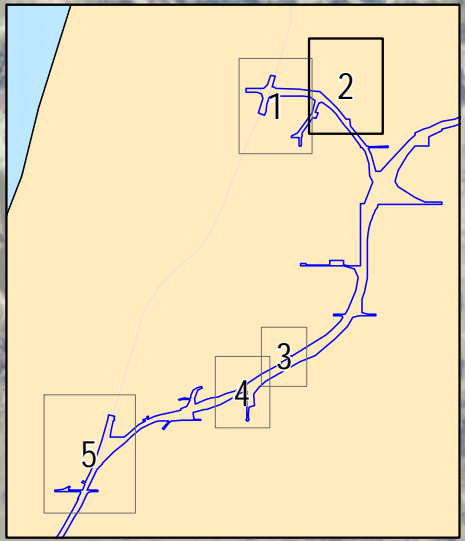
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LEGEND

-  BORR Southern Section Referral Boundary
-  Banksia Woodland TEC/PEC
-  Tuart Woodland TEC/PEC

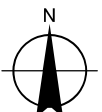
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TEC extent adjacent to the Proposal Area
 (indirect impacts)

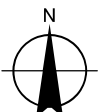
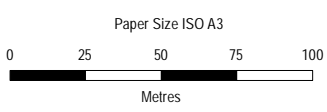
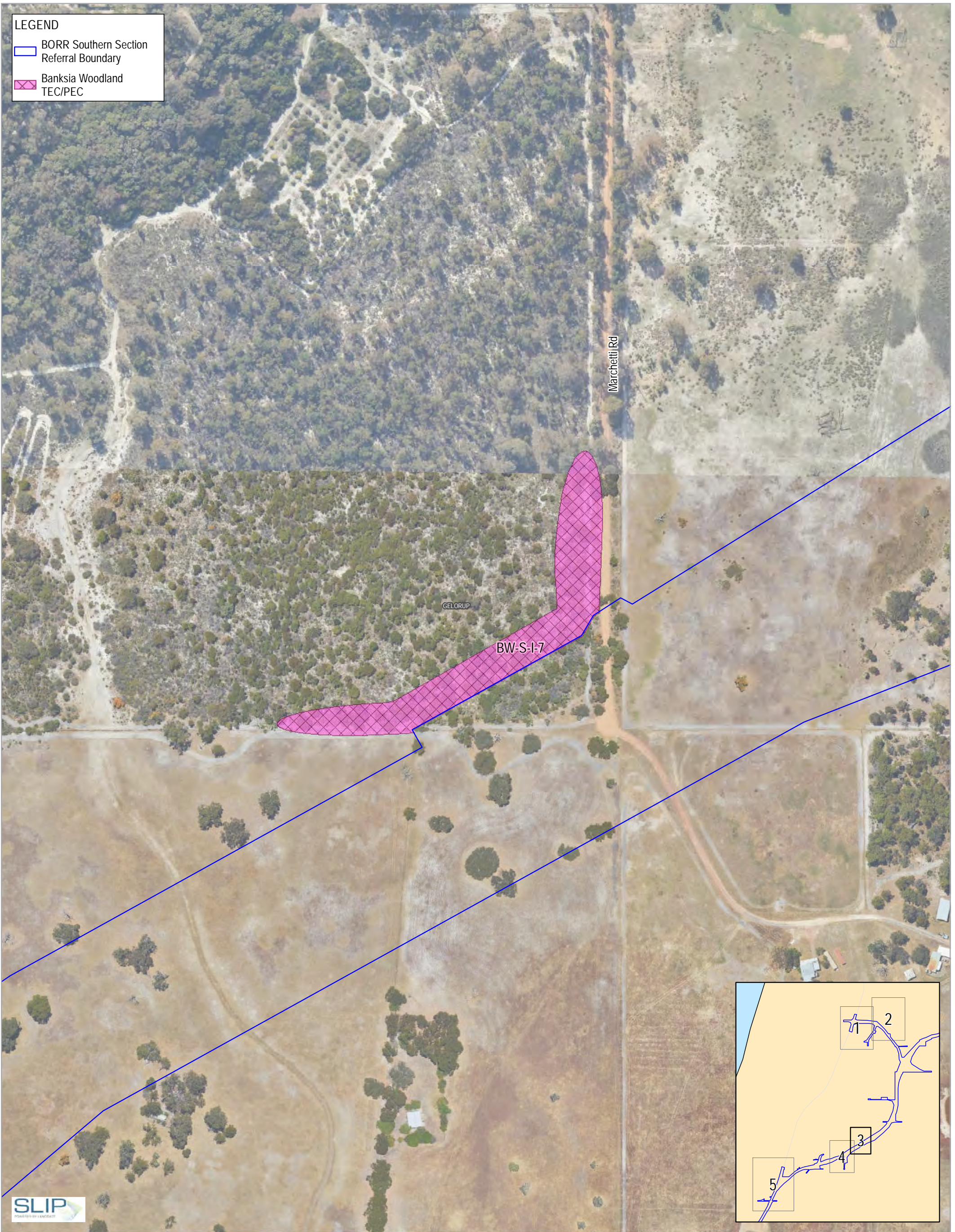
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LEGEND

-  BORR Southern Section Referral Boundary
-  Banksia Woodland TEC/PEC



Map Projection: Transverse Mercator
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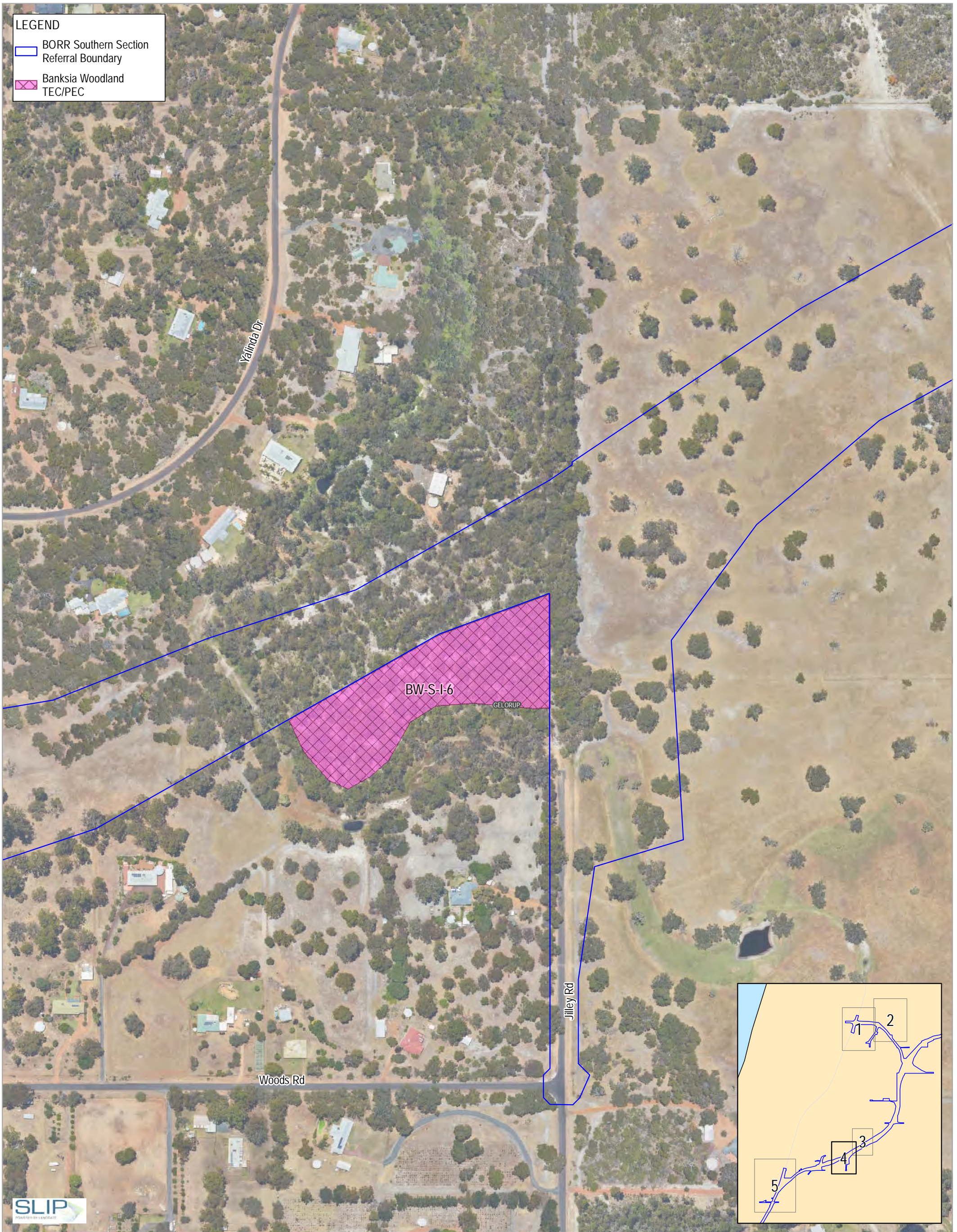
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Bunbury Outer Ring Road Southern Section
EPBC ARI

Project No. 61-37041
Revision No. 0
Date 6/10/2020

TEC extent adjacent to the Proposal Area
(indirect impacts)

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LEGEND

- BORR Southern Section Referral Boundary
- Banksia Woodland TEC/PEC

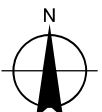
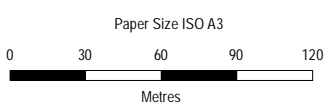
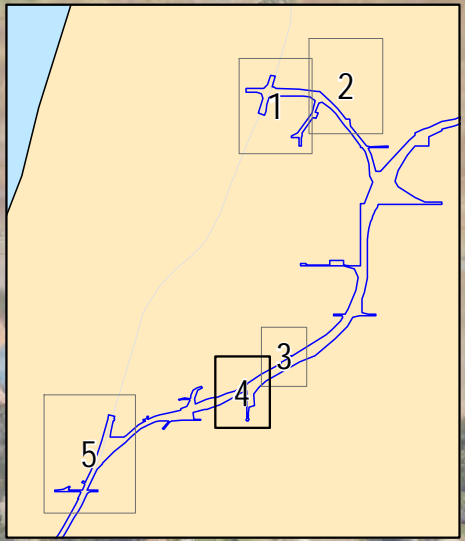
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GELORUP

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Main Roads Western Australia
Bunbury Outer Ring Road Southern Section
EPBC ARI

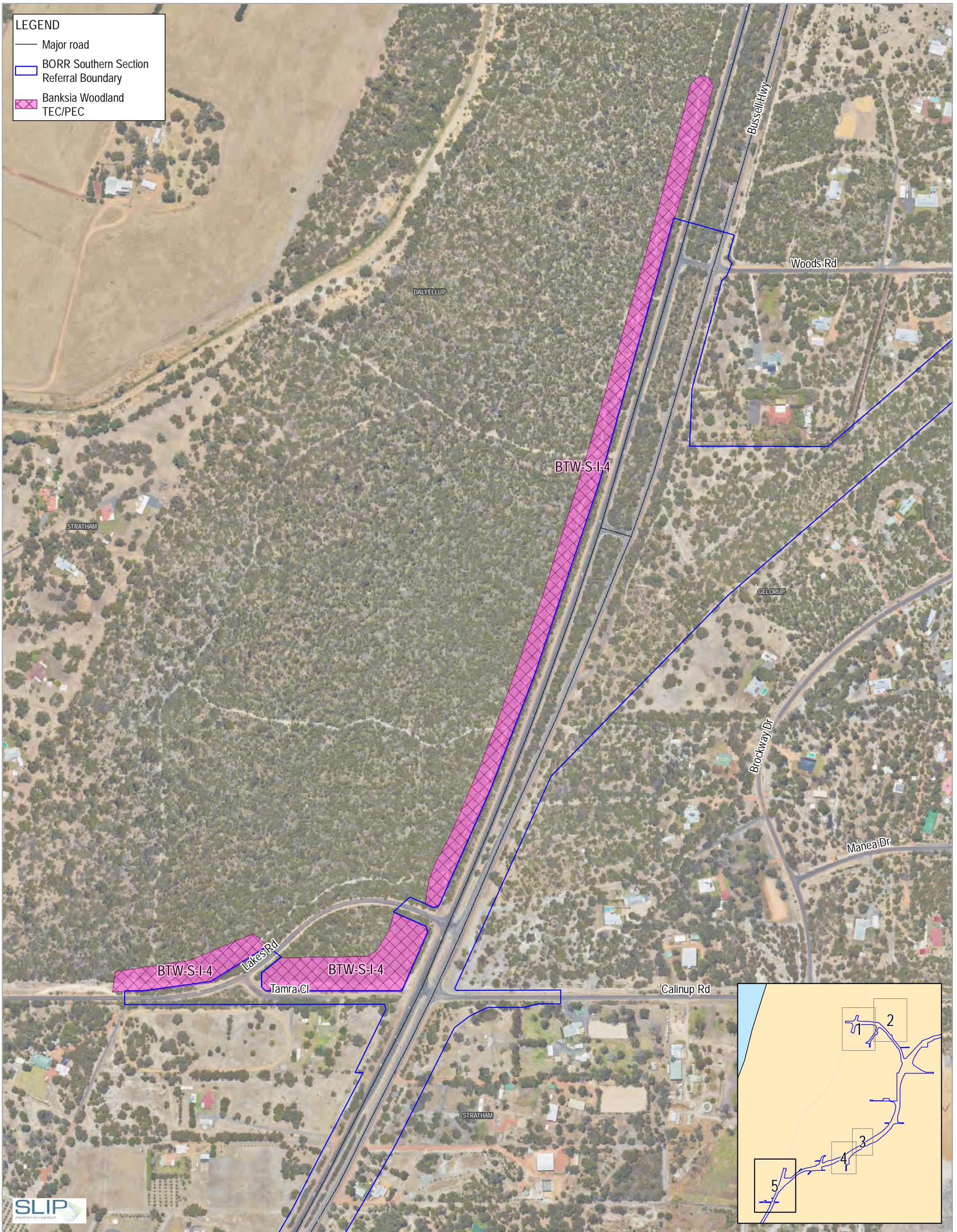
Project No. 61-37041
Revision No. 0
Date 6/10/2020

TEC extent adjacent to the Proposal Area
(indirect impacts)

Page 4 of 5
FIGURE 7

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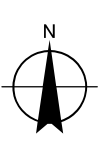
LEGEND

- Major road
- BORR Southern Section Referral Boundary
- ▨ Banksia Woodland TEC/PEC

Paper Size ISO A3

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994



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**TEC extent adjacent to the Proposal Area
(indirect impacts)**

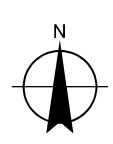
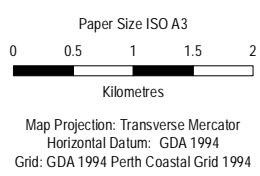
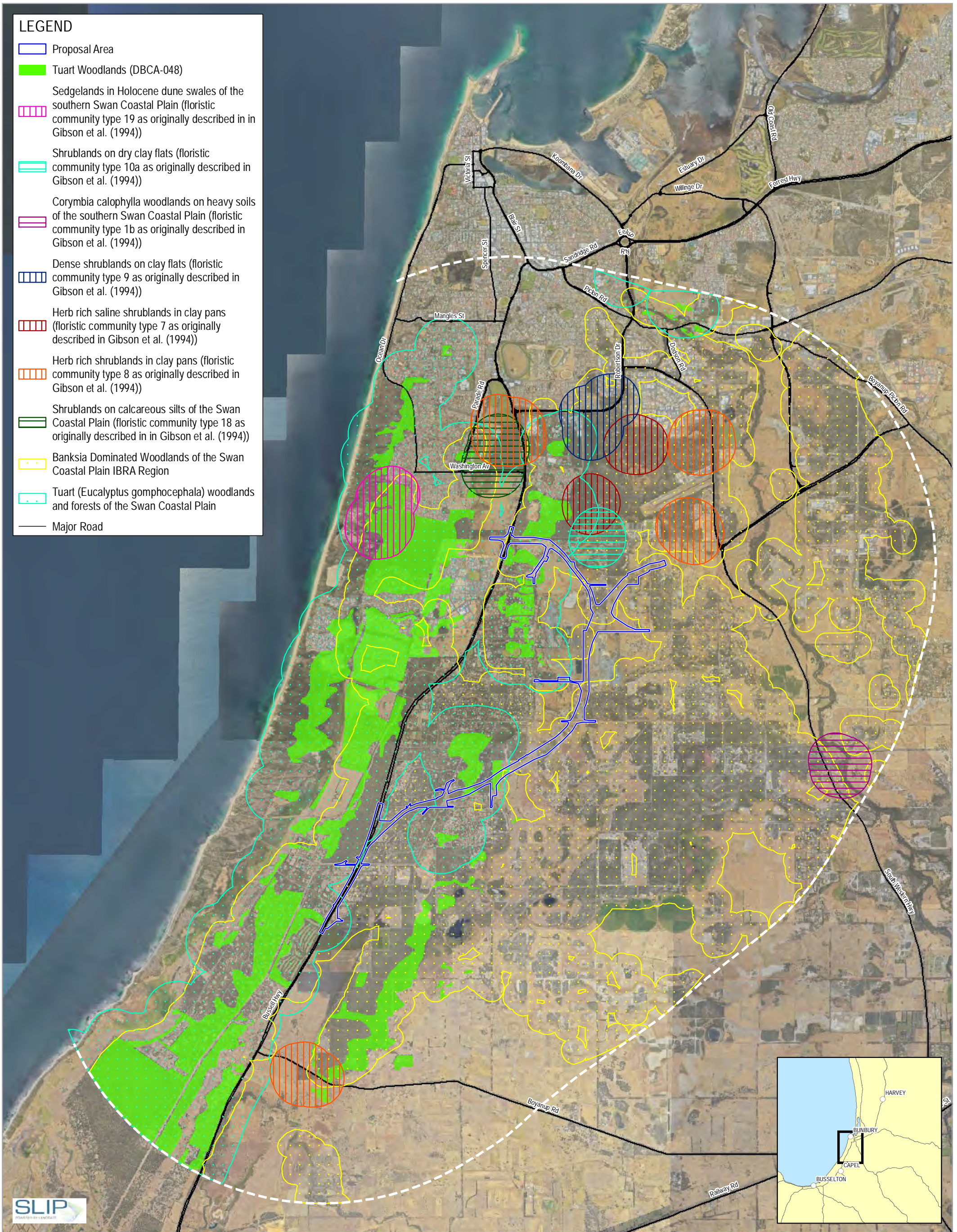
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Date 6/10/2020

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LEGEND

- Proposal Area
- Tuart Woodlands (DBCA-048)
- Sedgeland in Holocene dune swales of the southern Swan Coastal Plain (floristic community type 19 as originally described in Gibson et al. (1994))
- Shrublands on dry clay flats (floristic community type 10a as originally described in Gibson et al. (1994))
- Corymbia calophylla* woodlands on heavy soils of the southern Swan Coastal Plain (floristic community type 1b as originally described in Gibson et al. (1994))
- Dense shrublands on clay flats (floristic community type 9 as originally described in Gibson et al. (1994))
- Herb rich saline shrublands in clay pans (floristic community type 7 as originally described in Gibson et al. (1994))
- Herb rich shrublands in clay pans (floristic community type 8 as originally described in Gibson et al. (1994))
- Shrublands on calcareous silts of the Swan Coastal Plain (floristic community type 18 as originally described in Gibson et al. (1994))
- Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region
- Tuart (*Eucalyptus gomphocephala*) woodlands and forests of the Swan Coastal Plain
- Major Road

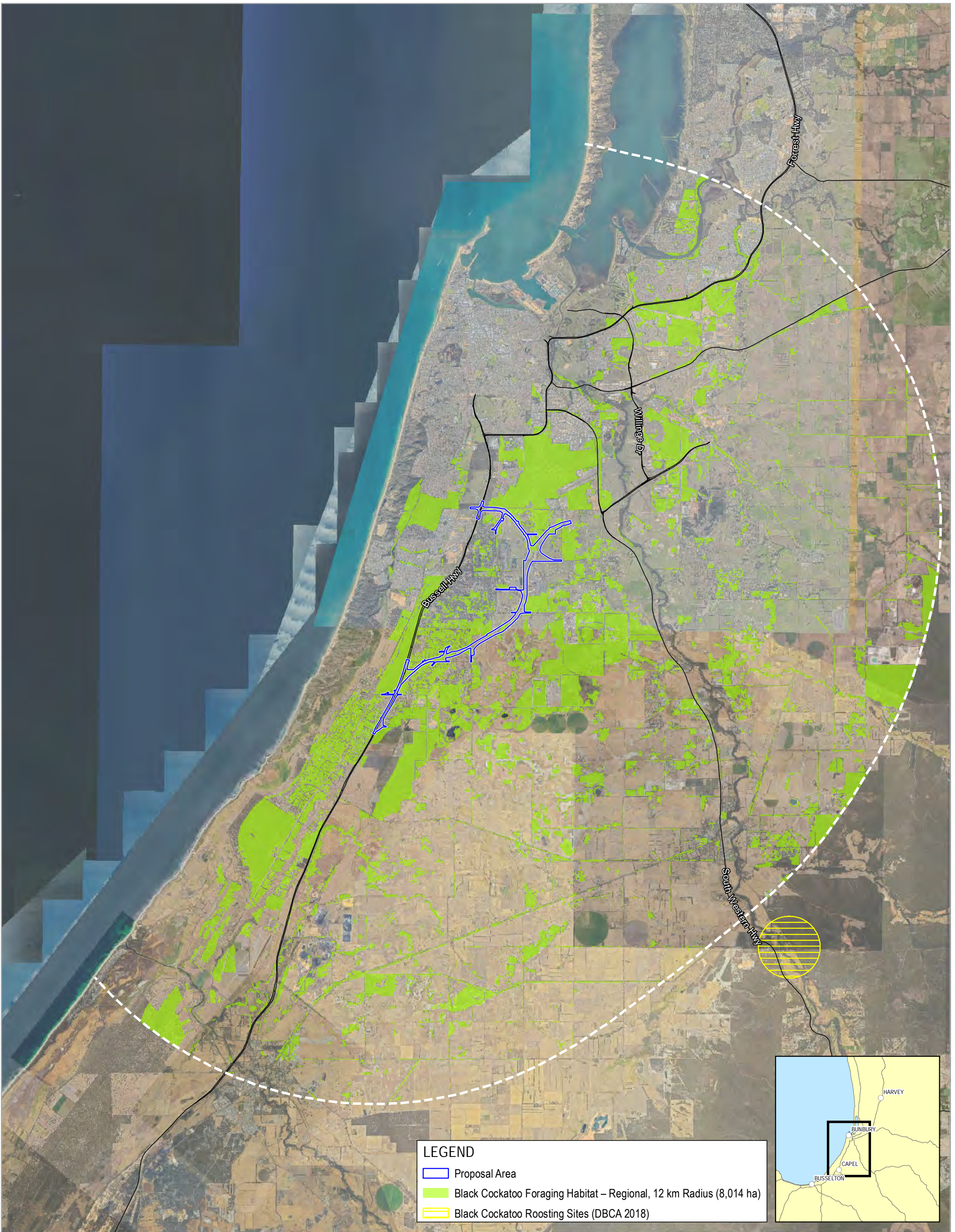


Main Roads Western Australia
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TEC extent within 5 km
of the Proposal Area

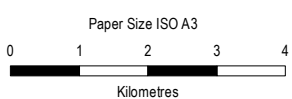
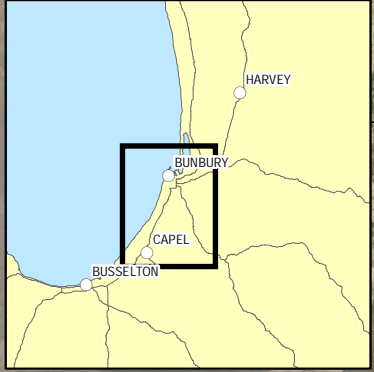
Project No. 61-37041
Revision No. 0
Date 9/07/2020

FIGURE 8

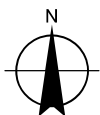


LEGEND

- Proposal Area
- Black Cockatoo Foraging Habitat – Regional, 12 km Radius (8,014 ha)
- Black Cockatoo Roosting Sites (DBCA 2018)



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994

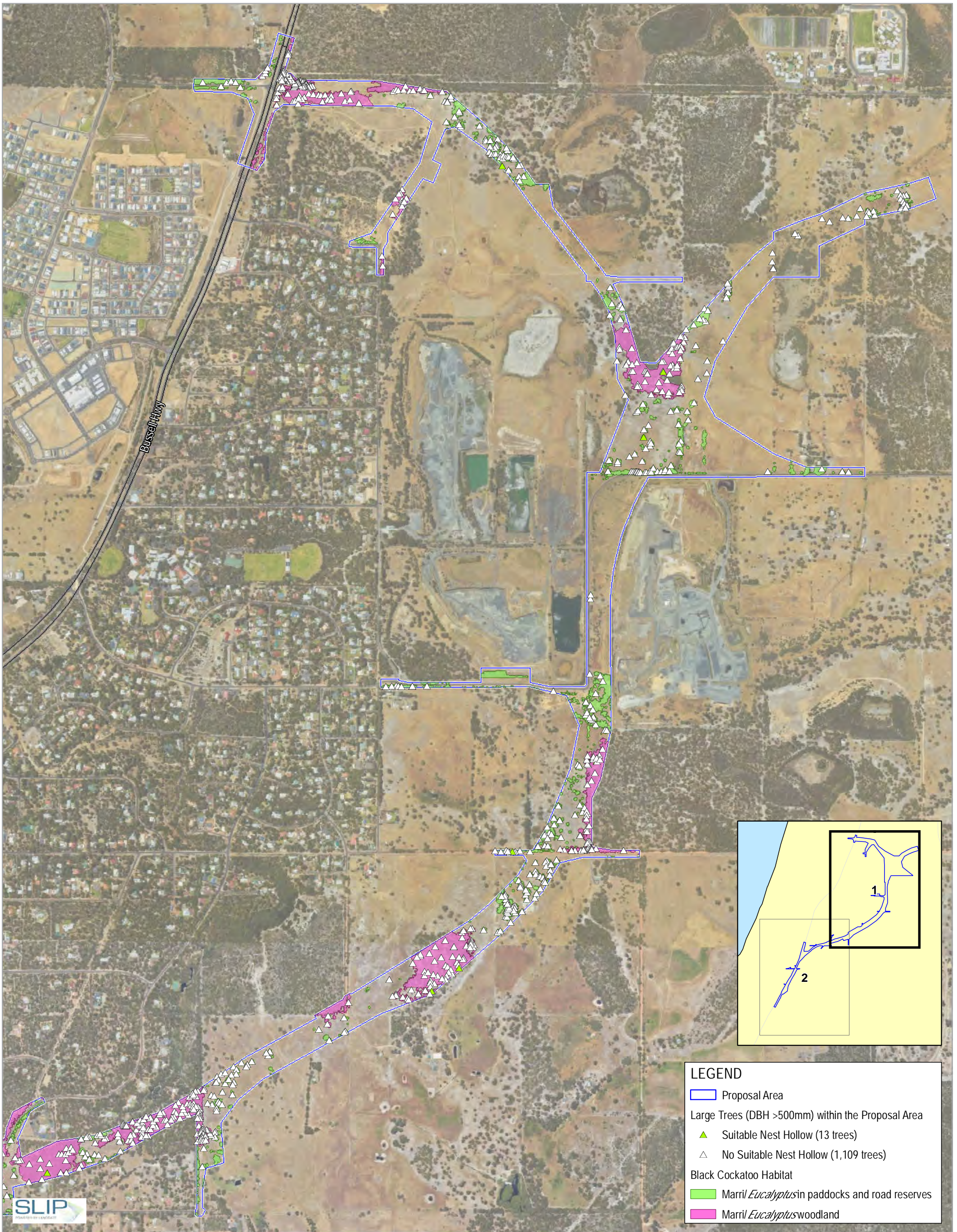


Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section

Black Cockatoo Foraging Habitat
 and Roosting Sites within 12 km
 of the Proposal Area

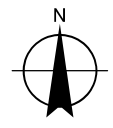
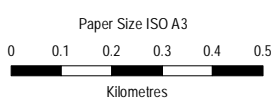
Project No. 61-37041
 Revision No. 2
 Date 2/10/2020

FIGURE 9



LEGEND

- Proposal Area
- Large Trees (DBH >500mm) within the Proposal Area
 - ▲ Suitable Nest Hollow (13 trees)
 - △ No Suitable Nest Hollow (1,109 trees)
- Black Cockatoo Habitat
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland

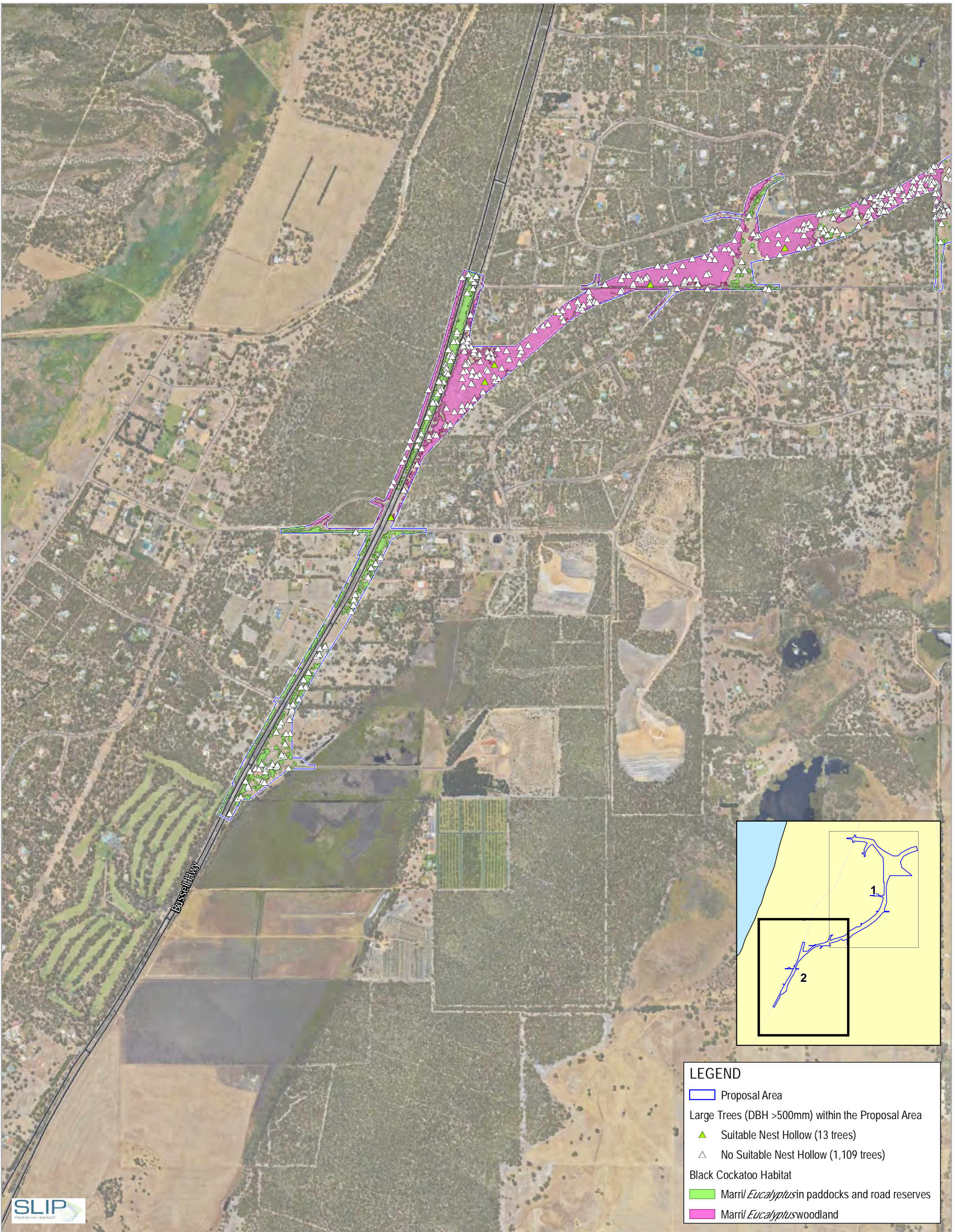


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 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



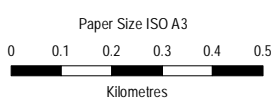
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Distribution of Black Cockatoo habitat within
 the Proposal Area with suitable DBH trees
 and nesting hollows shown

Project No. 61-37041
 Revision No. 1
 Date 30/07/2020



LEGEND

- Proposal Area
- Large Trees (DBH >500mm) within the Proposal Area
 - ▲ Suitable Nest Hollow (13 trees)
 - △ No Suitable Nest Hollow (1,109 trees)
- Black Cockatoo Habitat
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland

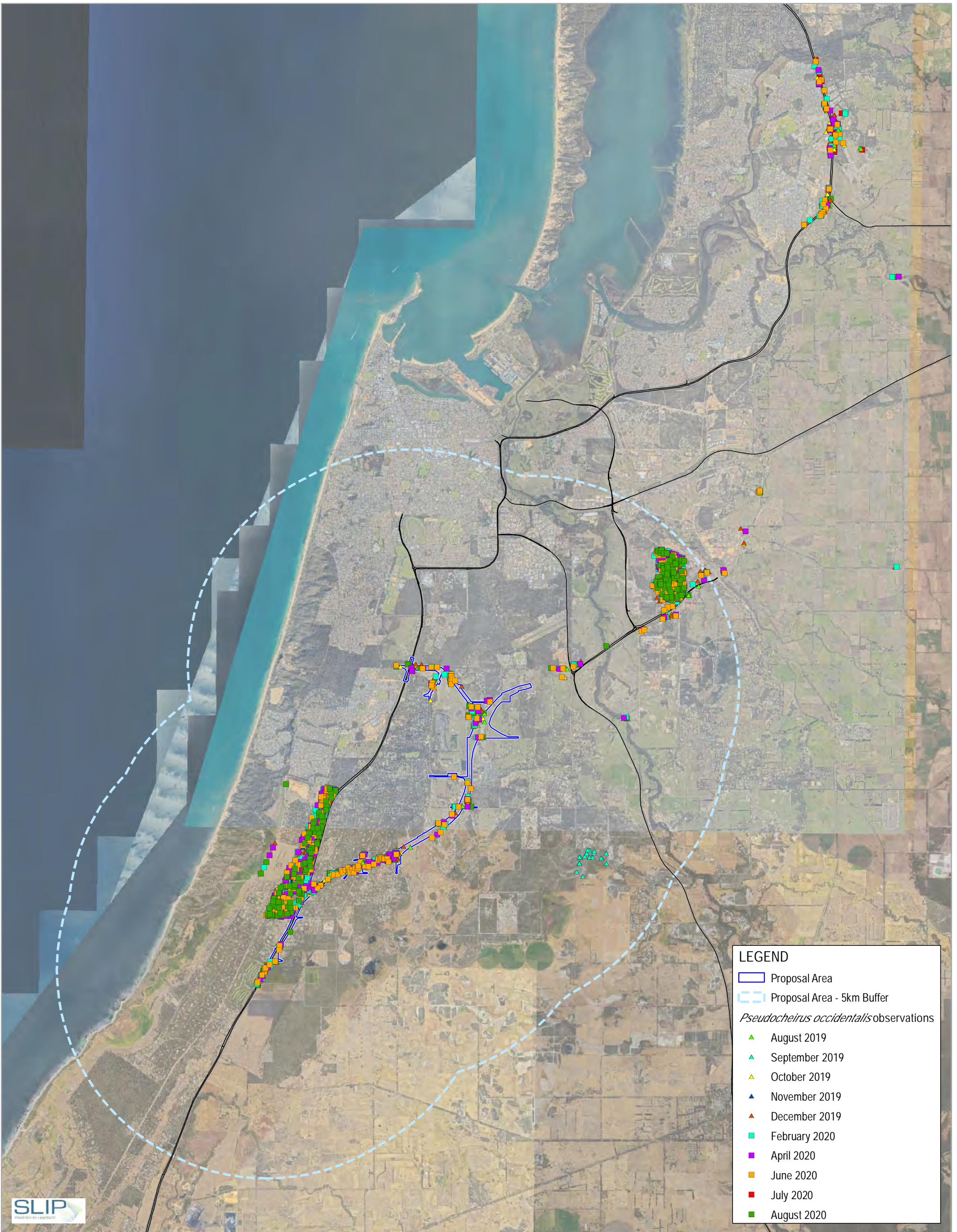


Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Distribution of Black Cockatoo habitat within
 the Proposal Area with suitable DBH trees
 and nesting hollows shown

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LEGEND

- Proposal Area
- Proposal Area - 5km Buffer

Pseudocheirus occidentalis observations

- ▲ August 2019
- ▲ September 2019
- ▲ October 2019
- ▲ November 2019
- ▲ December 2019
- February 2020
- April 2020
- June 2020
- July 2020
- August 2020



0 1 2 3 4
Kilometres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994

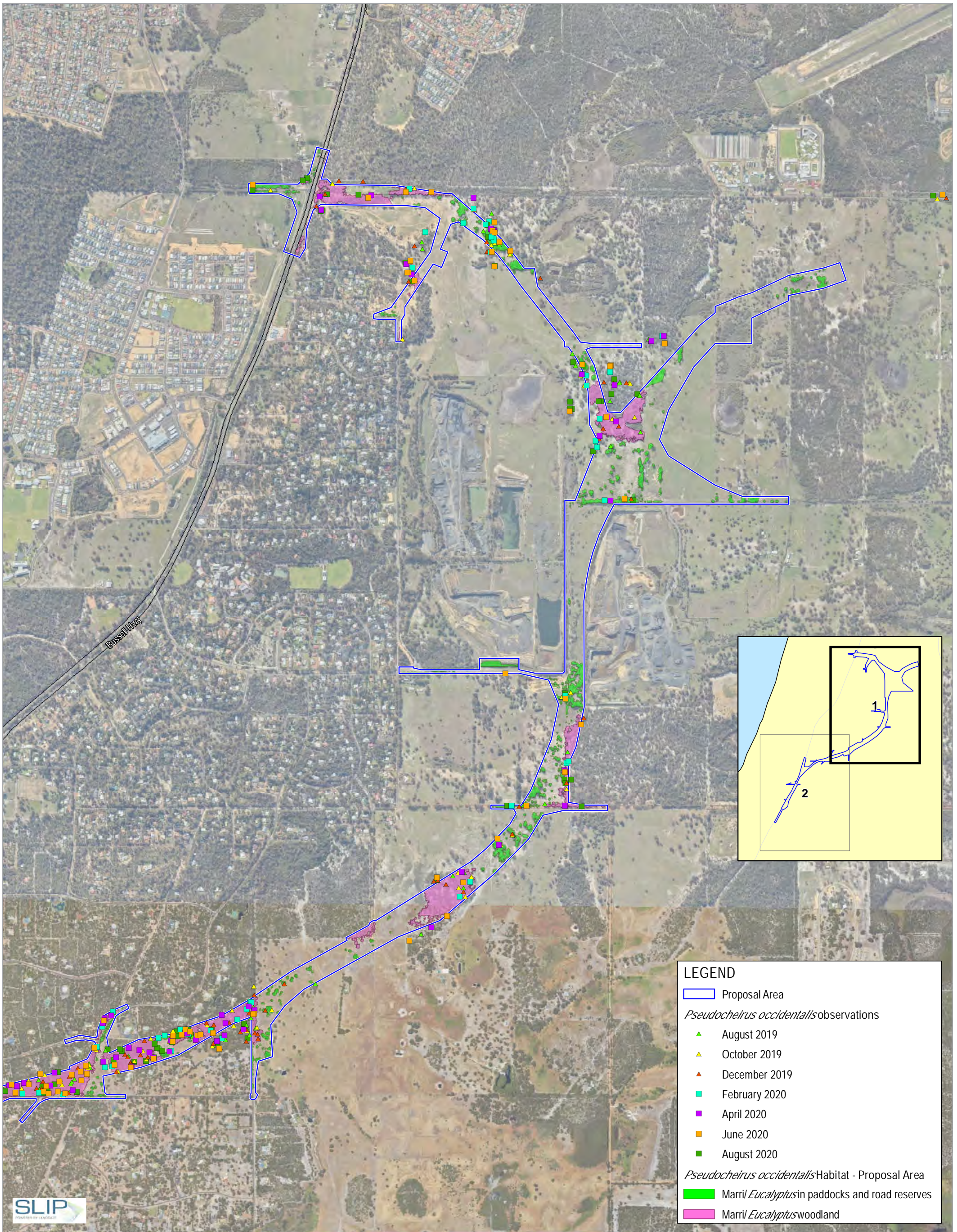
SUNBURY OUTER RING ROAD | FLAMINGO AND DEVELOPMENT

Main Roads Western Australia
Bunbury Outer Ring Road Southern Section
EPBC ARI

Distribution of Western Ringtail Possums
within 5 km of the Proposal Area

Project No. 61-37041
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[Overview](#)
FIGURE 11

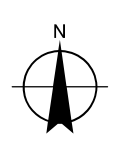


LEGEND

- Proposal Area
- Pseudocheirus occidentalis* observations
 - ▲ August 2019
 - ▲ October 2019
 - ▲ December 2019
 - ▲ February 2020
 - ▲ April 2020
 - June 2020
 - August 2020
- Pseudocheirus occidentalis* Habitat - Proposal Area
 - Marril *Eucalyptus* in paddocks and road reserves
 - Marril *Eucalyptus* woodland



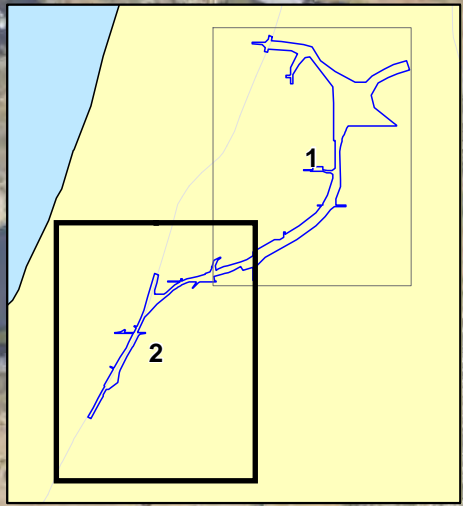
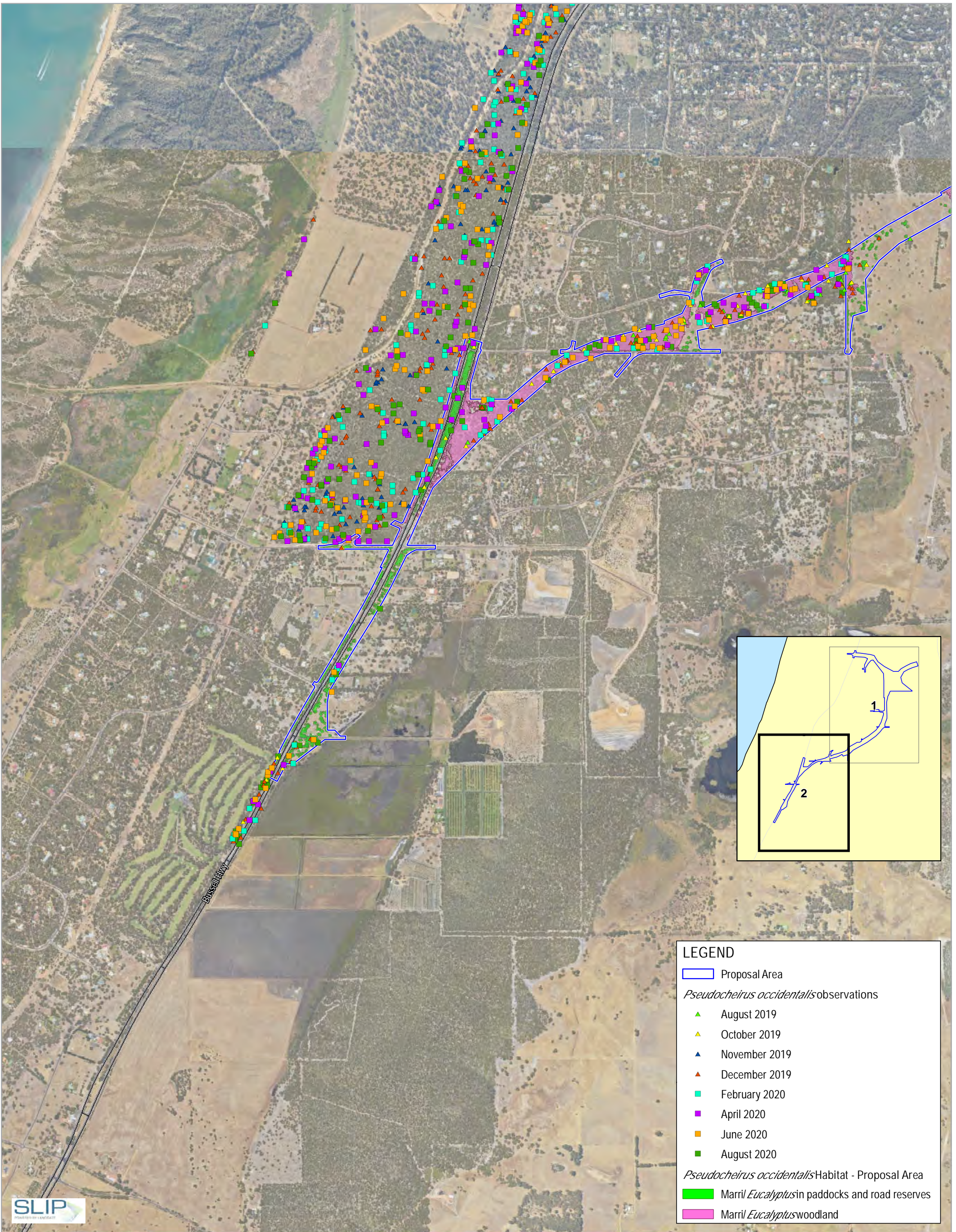
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 Kilometres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
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 Distribution of Western Ringtail Possums
 with habitat types and extent within
 the Proposal Area

Project No. 61-37041
 Revision No. 1
 Date 6/10/2020

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 Print date: 06 Oct 2020 - 15:59
 Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; DBCA: *Pseudocheirus occidentalis* Habitat - 20200220; Landgate: Roads - 20180501; Imagery - WA Now accessed 20201006; BORR: Proposal Area - 20191212; Environmental Survey Area - 20200214; Biota: Western Ringtail Possum Observations - 20200130. Created by: bmcorgan



LEGEND

- Proposal Area

Pseudocheirus occidentalis observations

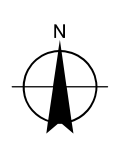
- ▲ August 2019
- ▲ October 2019
- ▲ November 2019
- ▲ December 2019
- February 2020
- April 2020
- June 2020
- August 2020

Pseudocheirus occidentalis Habitat - Proposal Area

- Marril *Eucalyptus* in paddocks and road reserves
- Marril *Eucalyptus* woodland



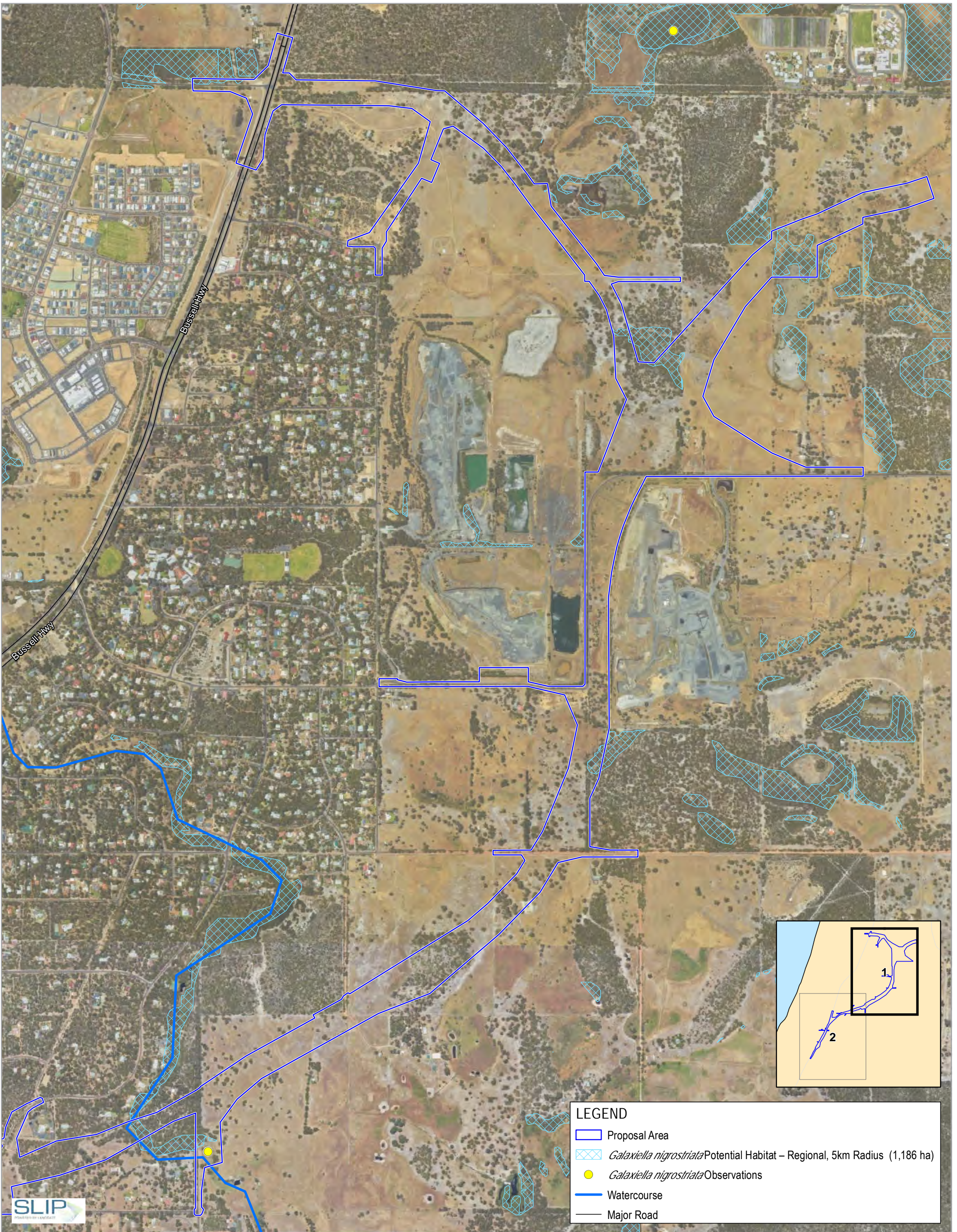
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 Kilometres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
 Distribution of Western Ringtail Possums
 with habitat types and extent within
 the Proposal Area

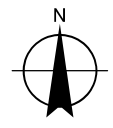
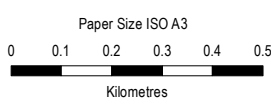
Project No. 61-37041
 Revision No. 1
 Date 6/10/2020

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LEGEND

- Proposal Area
- Galaxiella nigrostriata* Potential Habitat – Regional, 5km Radius (1,186 ha)
- Galaxiella nigrostriata* Observations
- Watercourse
- Major Road



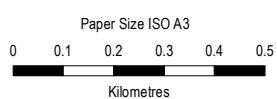
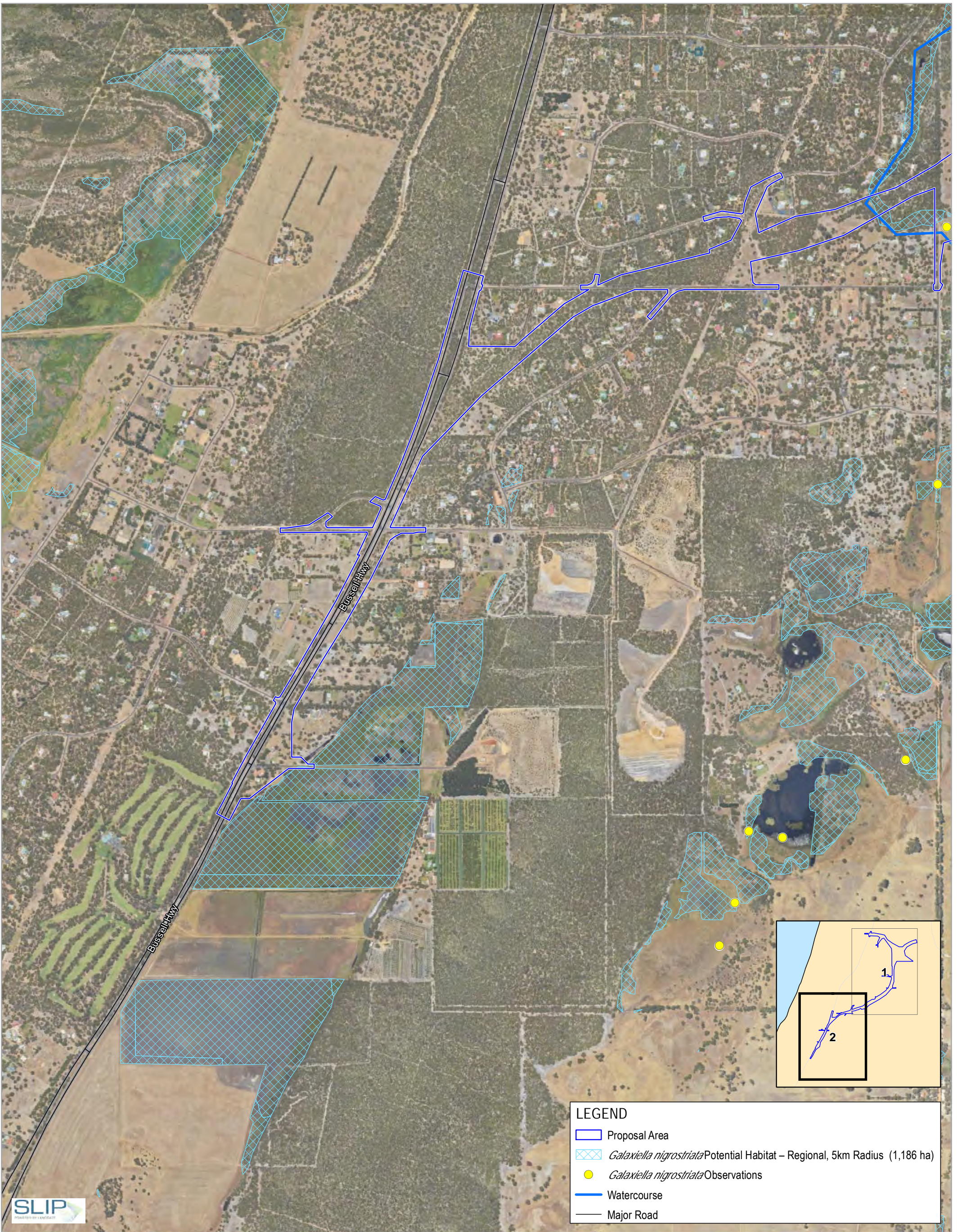
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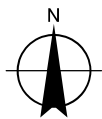
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI
**Black-stripe Minnow observations and
 habitat extent within and adjacent
 to the Proposal Area**

Project No. 61-37041
 Revision No. 0
 Date 9/07/2020

FIGURE 12

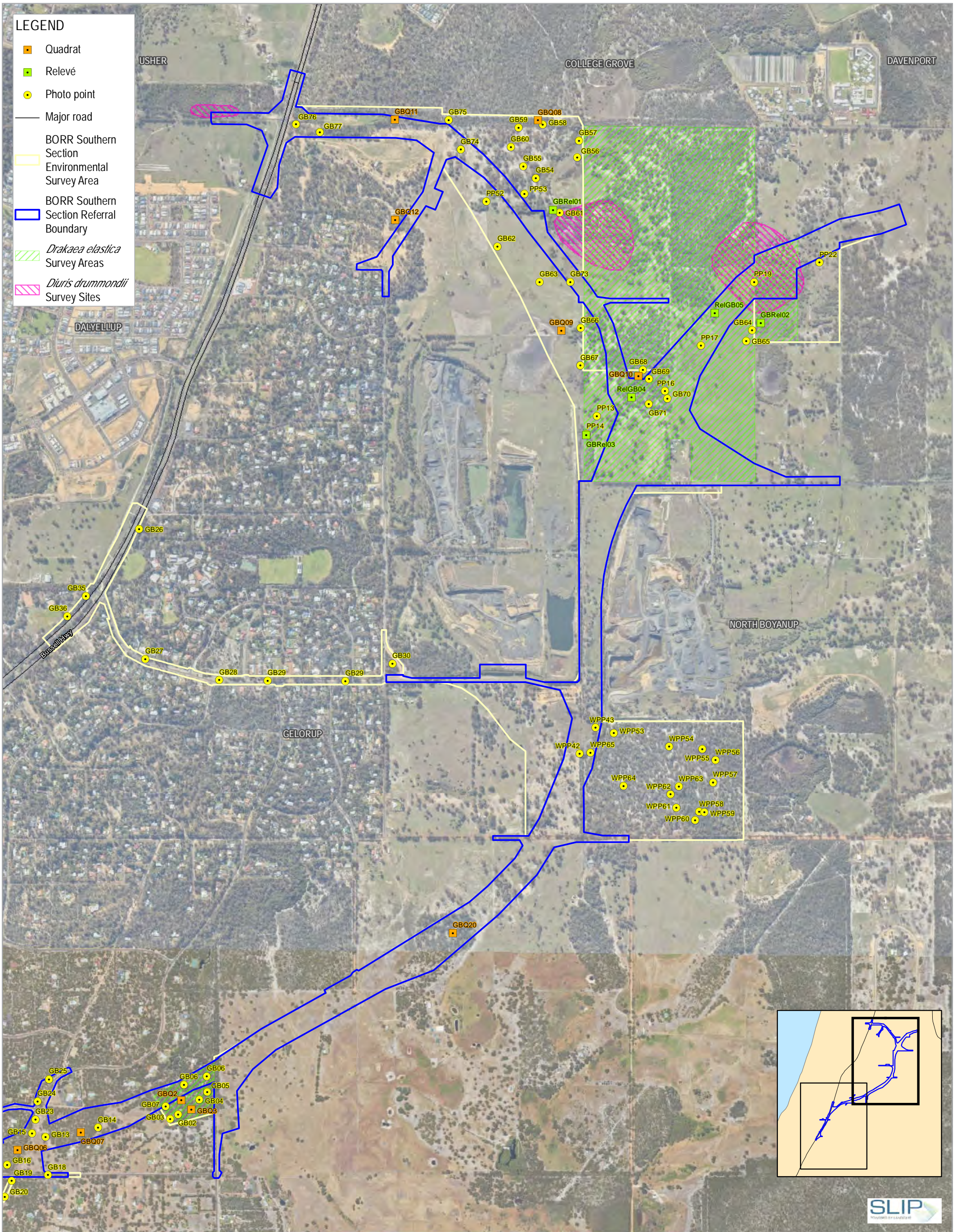


Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994



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EPBC ARI
**Black-stripe Minnow observations and
habitat extent within and adjacent
to the Proposal Area**

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LEGEND

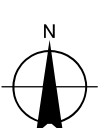
- Quadrat
- Relevé
- Photo point
- Major road
- BORR Southern Section Environmental Survey Area
- BORR Southern Section Referral Boundary
- Drakaea elastica* Survey Areas
- Diuris drummondii* Survey Sites

USHER COLLEGE GROVE DALYELLUP GELORUP NORTHBOYANUP DAVENPORT

Paper Size ISO A3

0 0.1 0.2 0.3 0.4 0.5
Kilometres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 Perth Coastal Grid 1994



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Bunbury Outer Ring Road
EPBC ARI

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Date 06 Oct 2020

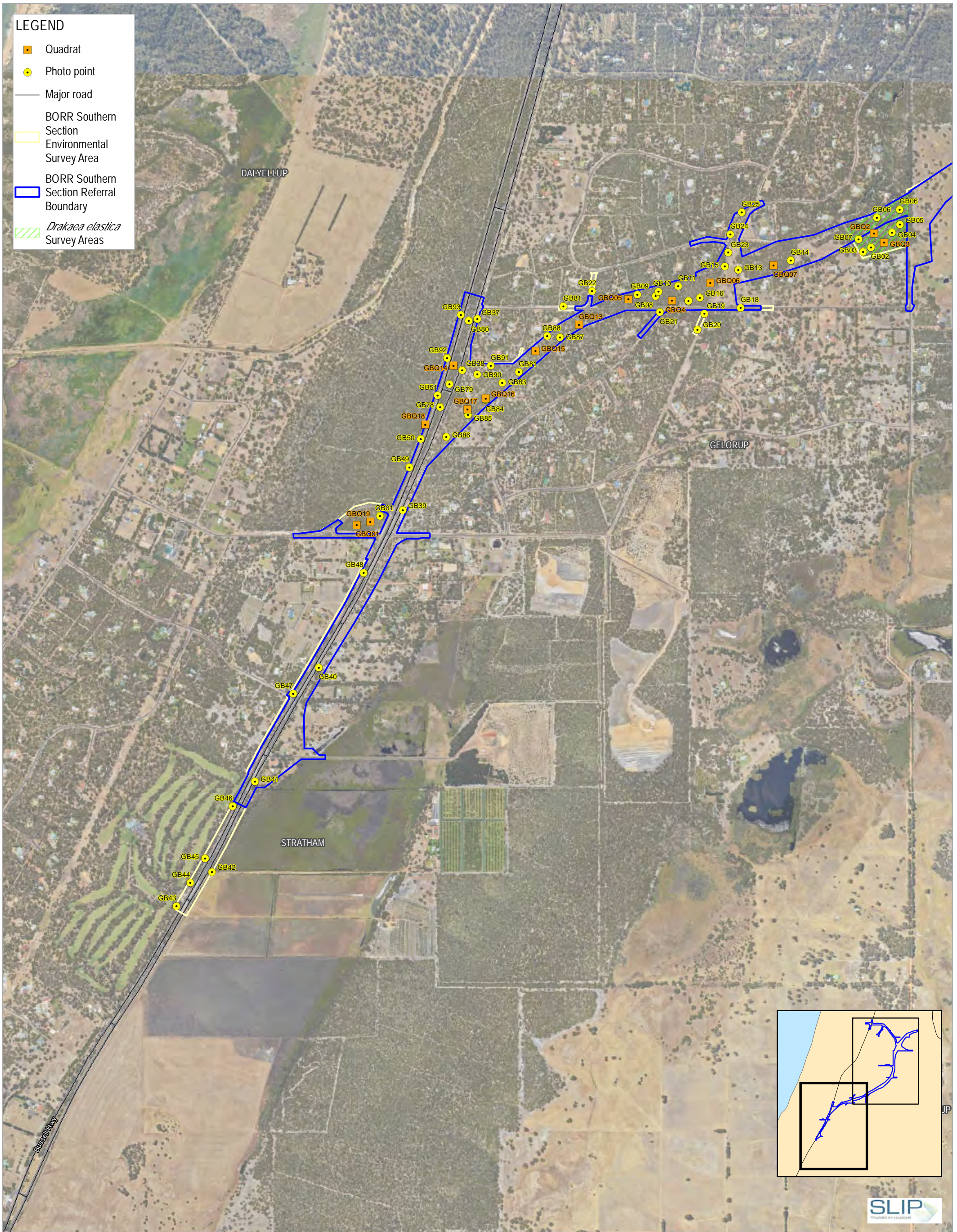
Flora and vegetation studies
undertaken for the Proposal

FIGURE 13

G:\137041\19_0_GIS\Maps\Working\BORR South EPBC ARI\6137041_013_BORR\South\F_V_Rev0.mxd
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Data source: BORR team: South environmental survey area - 20200214, Quadrats, Relevés, Photo points, *Drakaea elastica* survey areas - 2019; Landgate: Roads - 201805; Imagery - WA Now accessed: 20201006. Created by: bmcrgan



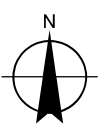


LEGEND

- Quadrat
- Photo point
- Major road
- BORR Southern Section Environmental Survey Area
- BORR Southern Section Referral Boundary
- Drakaea elastica* Survey Areas

Paper Size ISO A3
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 Kilometres

Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



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 Revision No. 0
 Date 06 Oct 2020

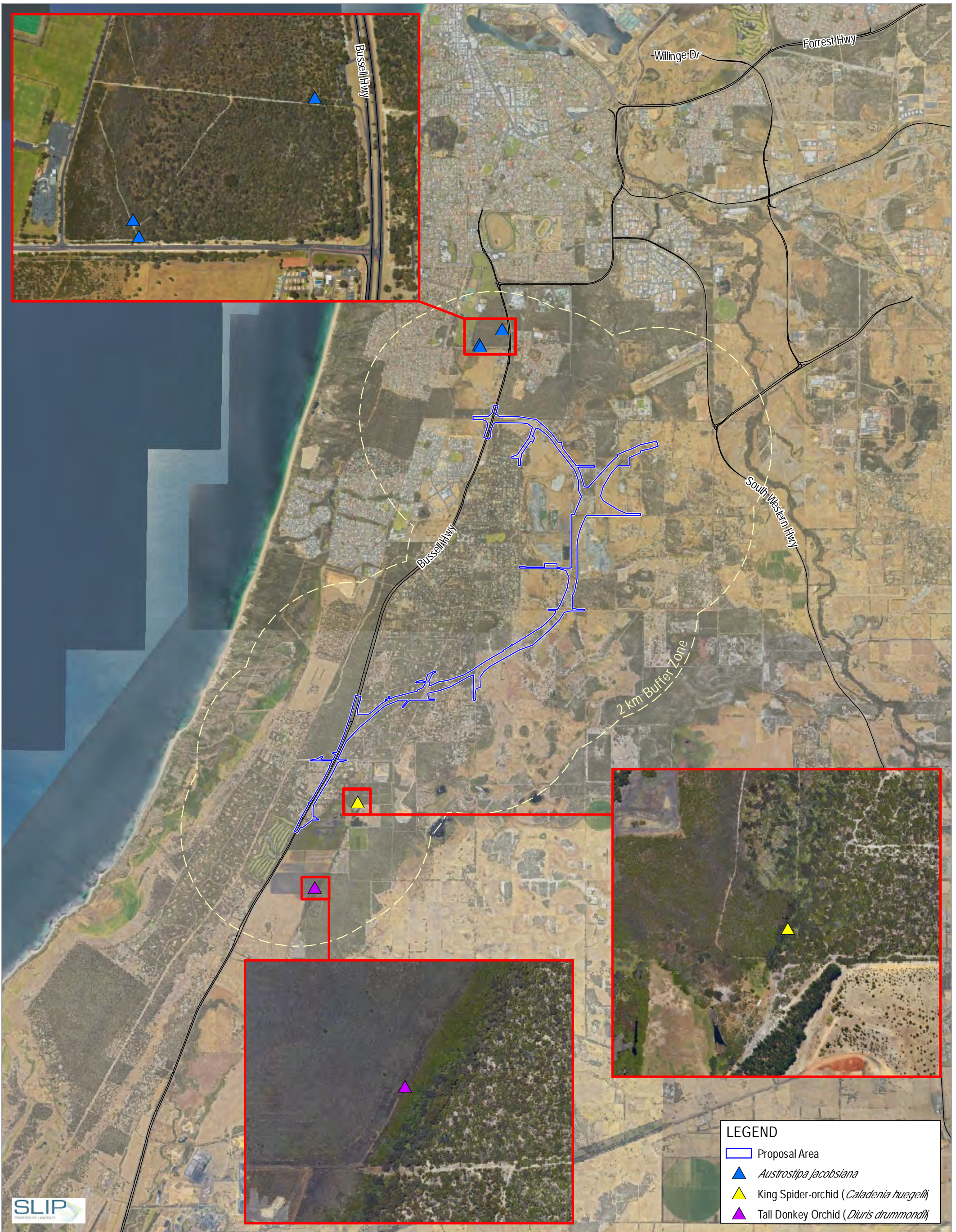
Flora and vegetation studies
 undertaken for the Proposal

FIGURE 13

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Data source: BORR team: South environmental survey area - 20200214, Quadrats, Relives, Photo points, *Drakaea elastica* survey areas - 2019; Landgate: Roads - 201805; Imagery - WA Now accessed: 20201006. Created by: bmorgan

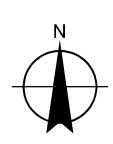




LEGEND

- Proposal Area
- ▲ *Austrostipa jacobsonia*
- ▲ King Spider-orchid (*Caladenia huegellii*)
- ▲ Tall Donkey Orchid (*Diuris drummondii*)

Paper Size ISO A3
 0 0.5 1 1.5 2
 Kilometres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



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 King Spider-orchid (*Caladenia huegellii*), Tall Donkey Orchid (*Diuris drummondii*) and *Austrostipa jacobsonia* populations within a 2 km of the Proposal Area

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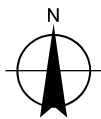
FIGURE 14

LEGEND

- BORR South design
- Dual Use Culvert
- Fauna Rope Bridge
- Possum Exclusion Fencing (Permanent)
- BORR Southern Section Referral Boundary



Paper Size ISO A3
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 Metres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



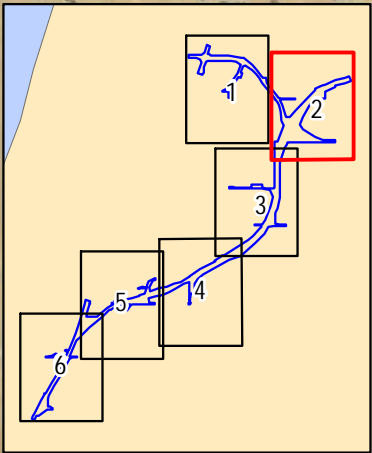
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

Project No. 61-37041
 Revision No. 0
 Date 09 Jul 2020

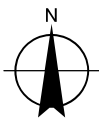
Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan

LEGEND

- BORR South design
- Dual Use Culvert
- Possum Exclusion Fencing (Permanent)
- BORR Southern Section Referral Boundary



Paper Size ISO A3
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Metres
Map Projection: Transverse Mercator
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Grid: GDA 1994 Perth Coastal Grid 1994



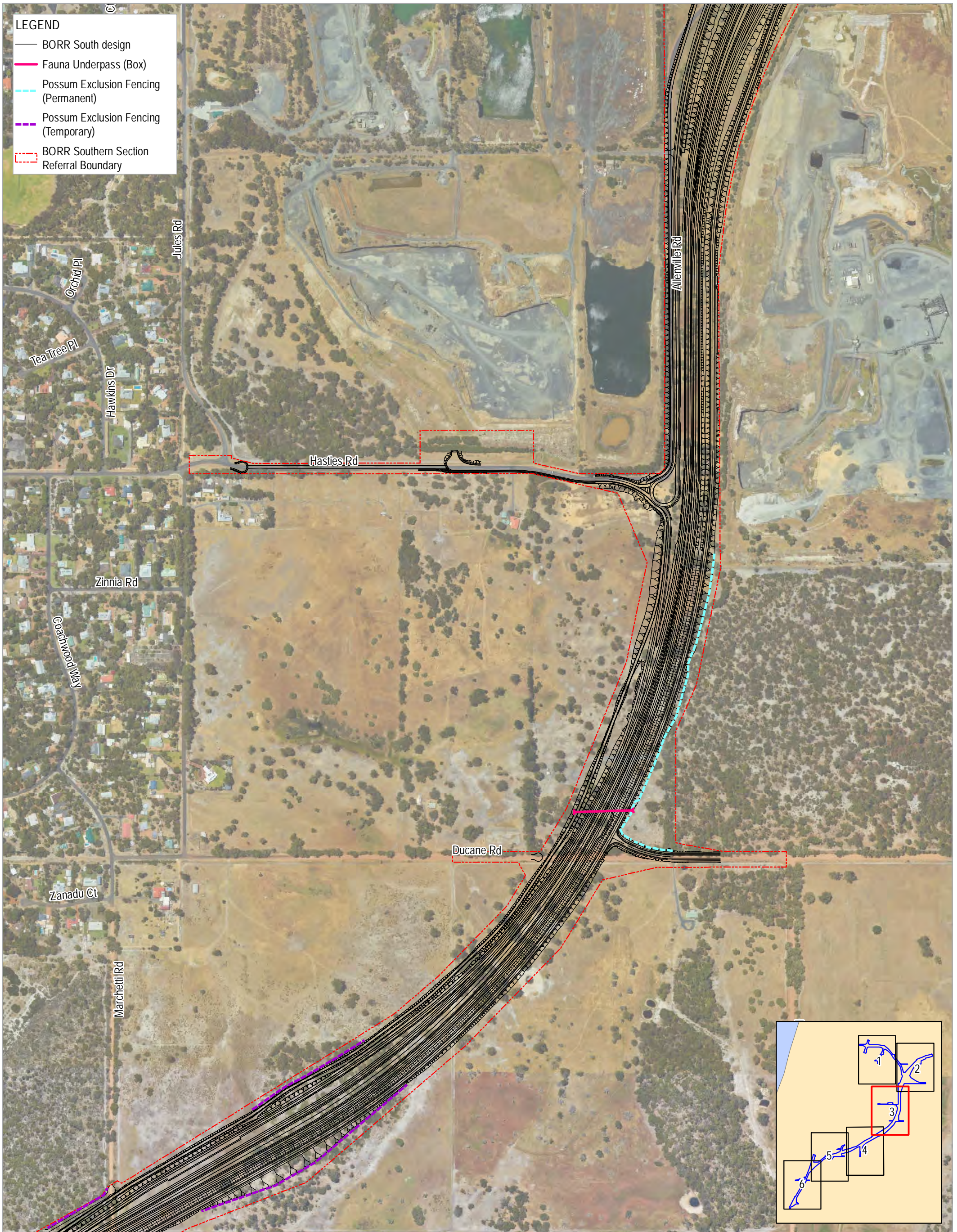
Main Roads Western Australia
Bunbury Outer Ring Road Southern Section
EPBC ARI

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Fauna Crossing Provisions and
Exclusion Fencing Concept Plan

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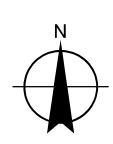
FIGURE 15



- LEGEND**
- BORR South design
 - Fauna Underpass (Box)
 - Possum Exclusion Fencing (Permanent)
 - Possum Exclusion Fencing (Temporary)
 - - - BORR Southern Section Referral Boundary



Paper Size ISO A3
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 Metres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



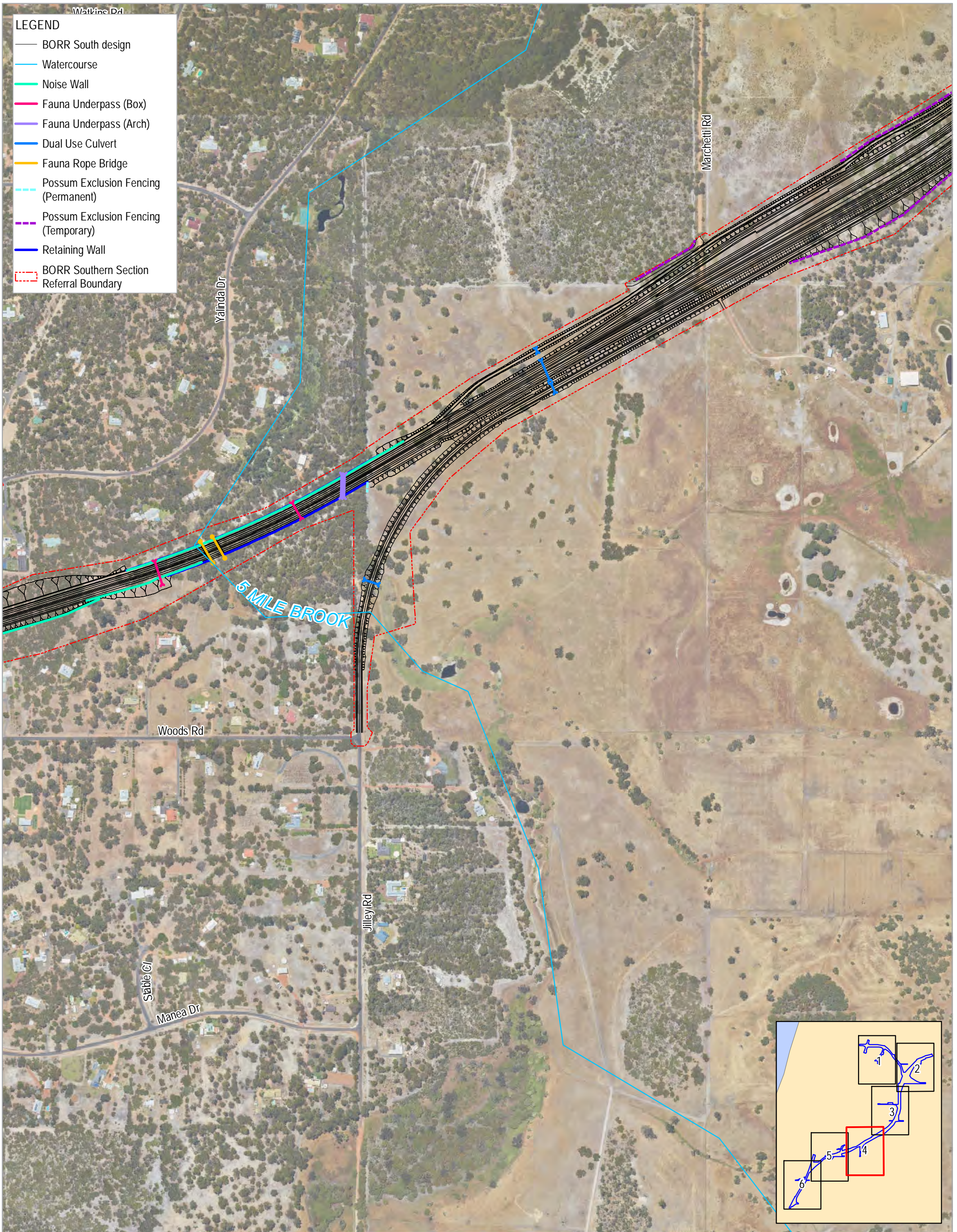
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

Project No. 61-37041
 Revision No. 0
 Date 09 Jul 2020

Fauna Crossing Provisions and Exclusion Fencing Concept Plan

G:\137041\19_0_GIS\Maps\Working\BORR South EPBC ARI\6137041_015_PossumExclusionFencing_Rev0.mxd
 Print date: 09 Jul 2020 - 19:49

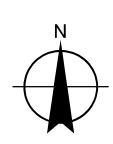
Data source: BORR team: North design - 201908, North referral boundary - 20191016, Possum Exclusion Fencing Structure - 20200420; Biota: Western Ringtail Possum Records - 20200327, Possum habitat - 201910; Landgate: Imagery - WA Now accessed 20200709. Created by: sli



- LEGEND**
- BORR South design
 - Watercourse
 - Noise Wall
 - Fauna Underpass (Box)
 - Fauna Underpass (Arch)
 - Dual Use Culvert
 - Fauna Rope Bridge
 - Possum Exclusion Fencing (Permanent)
 - Possum Exclusion Fencing (Temporary)
 - Retaining Wall
 - - - BORR Southern Section Referral Boundary



Paper Size ISO A3
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 Metres
 Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 Perth Coastal Grid 1994



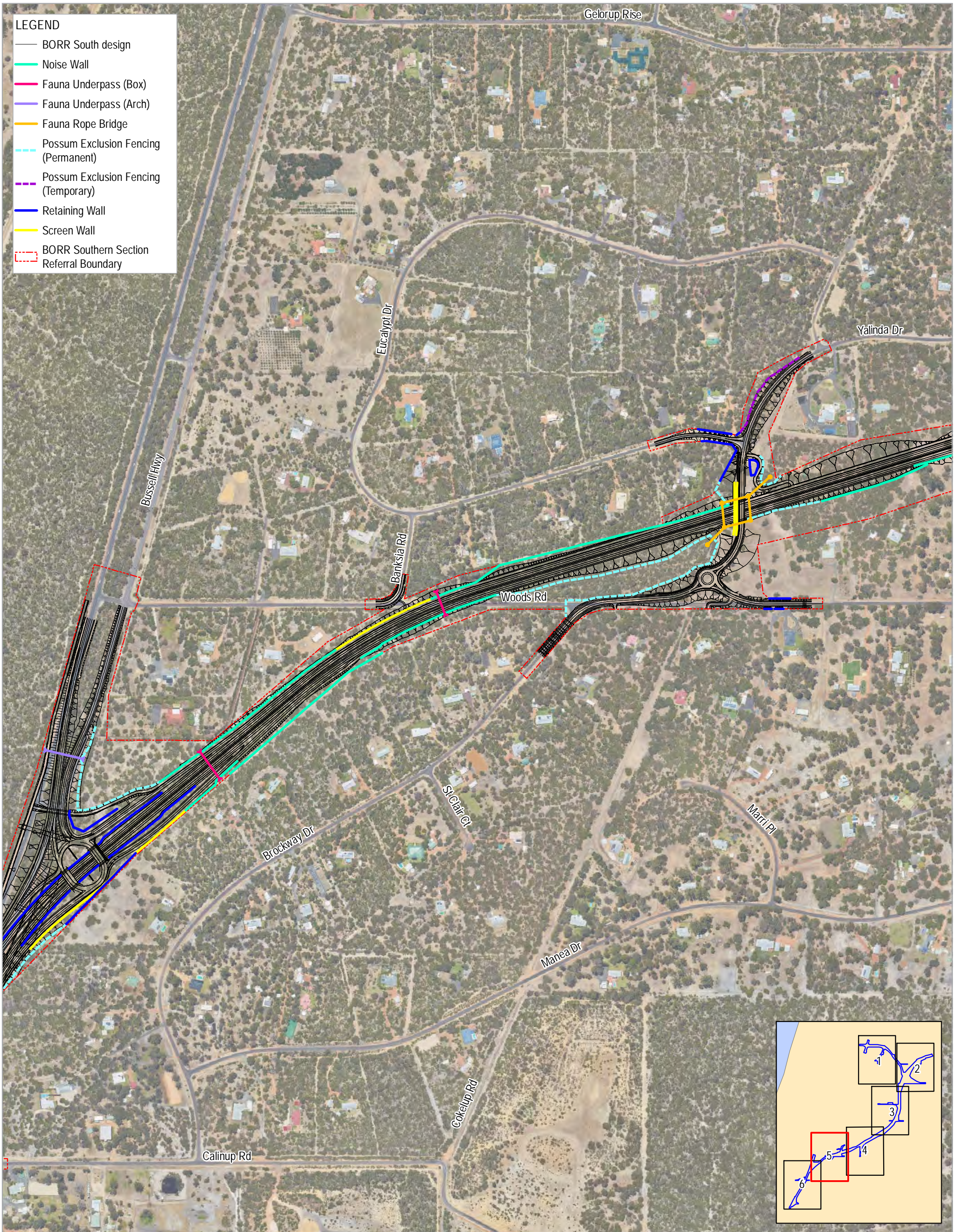
Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

Project No. 61-37041
 Revision No. 0
 Date 09 Jul 2020

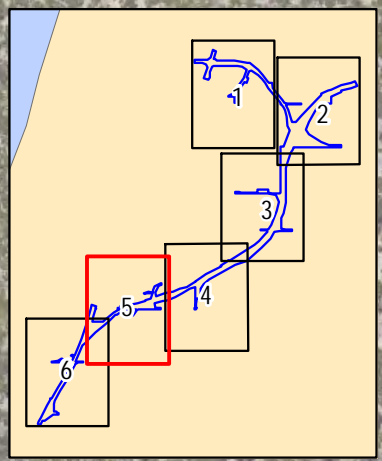
**Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan**

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Data source: BORR team: North design - 201908, North referral boundary - 20191016, Possum Exclusion Fencing Structure - 20200420, Biota: Western Ringtail Possum Records - 20200327, Possum habitat - 201910, Landgate: Imagery - WA Now accessed 20200709. Created by: sli

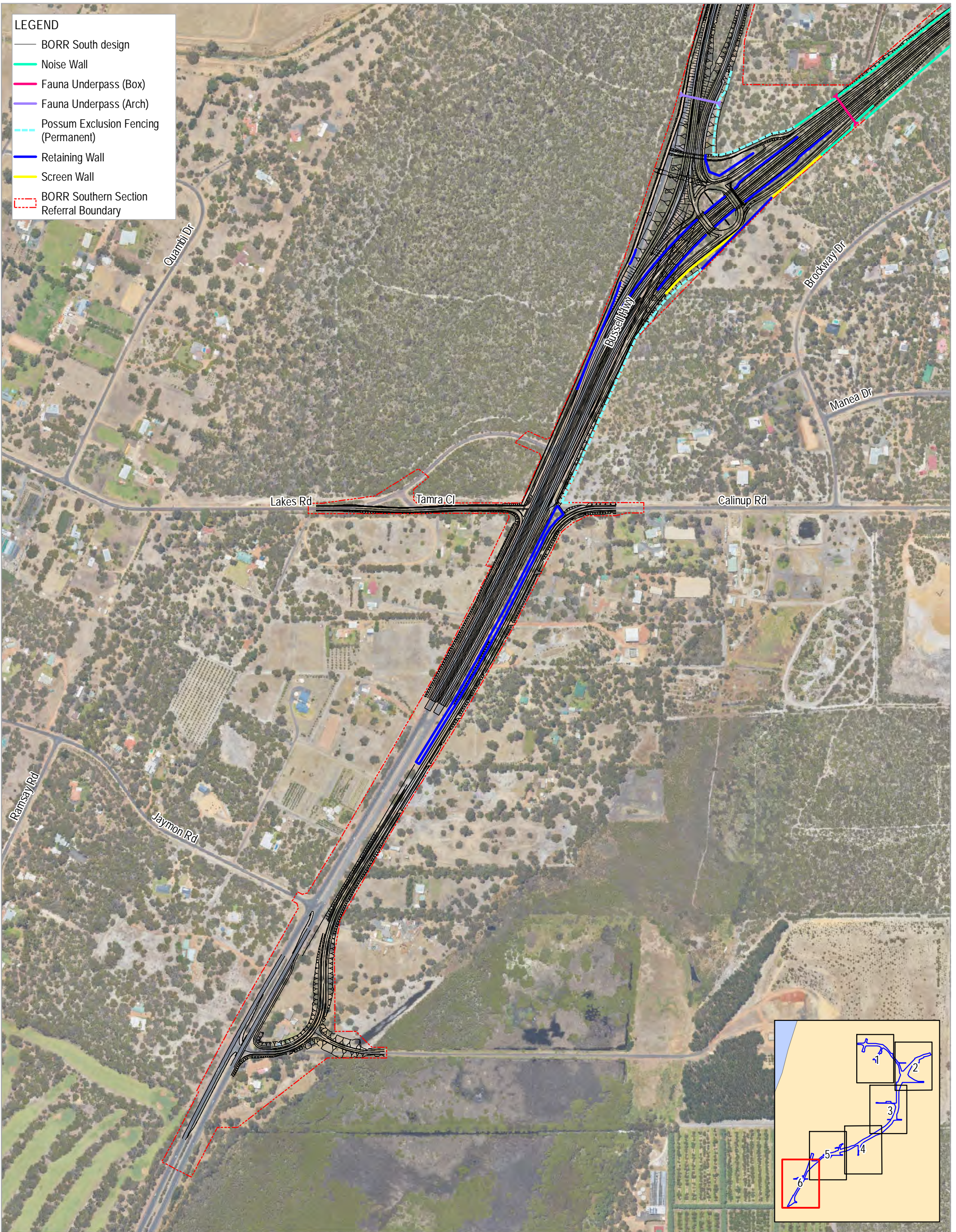


- LEGEND**
- BORR South design
 - Noise Wall
 - Fauna Underpass (Box)
 - Fauna Underpass (Arch)
 - Fauna Rope Bridge
 - Possum Exclusion Fencing (Permanent)
 - Possum Exclusion Fencing (Temporary)
 - Retaining Wall
 - Screen Wall
 - - - BORR Southern Section Referral Boundary

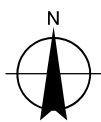


LEGEND

- BORR South design
- Noise Wall
- Fauna Underpass (Box)
- Fauna Underpass (Arch)
- Possum Exclusion Fencing (Permanent)
- Retaining Wall
- Screen Wall
- - - BORR Southern Section Referral Boundary



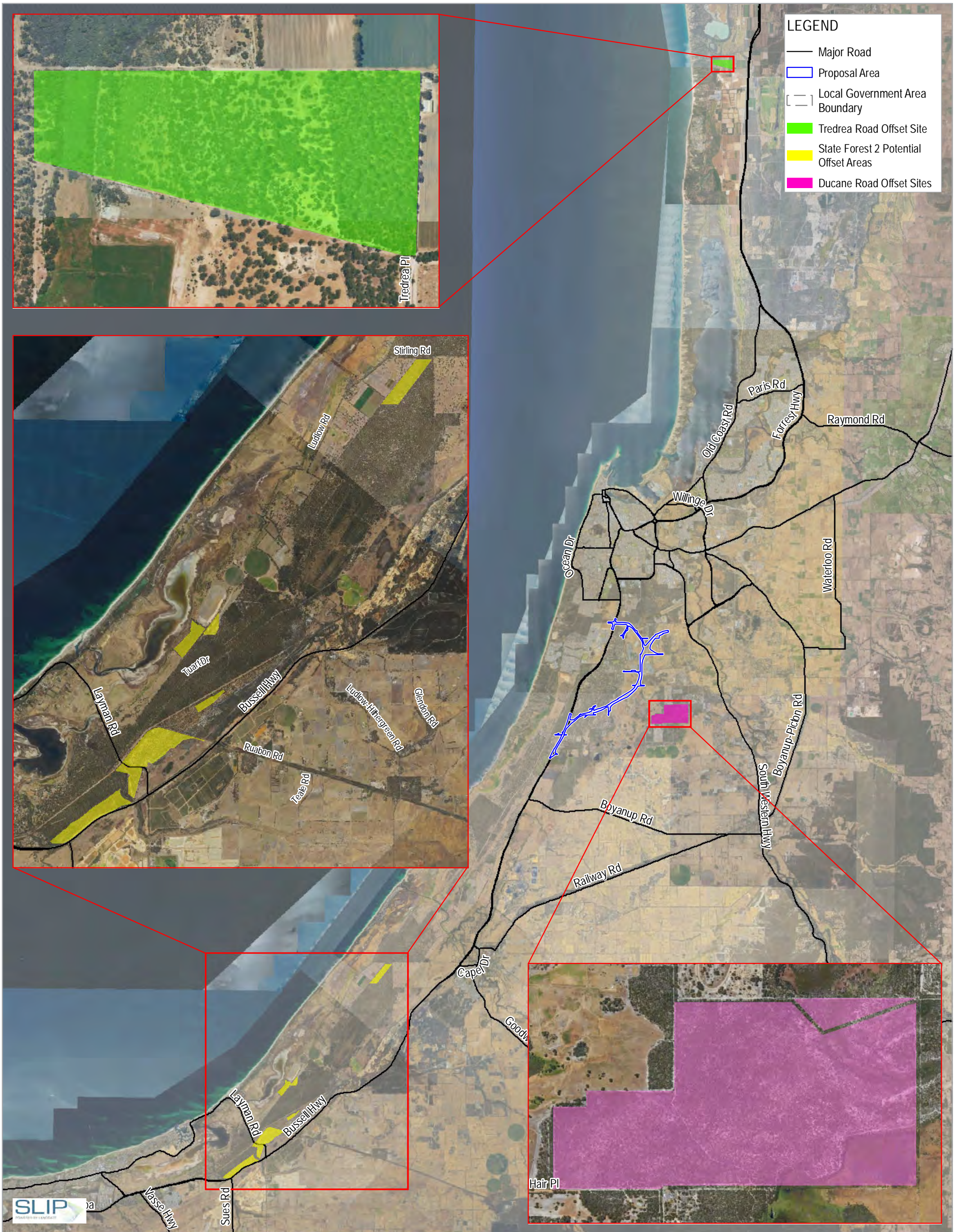
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Main Roads Western Australia
 Bunbury Outer Ring Road Southern Section
 EPBC ARI

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 Date 09 Jul 2020

**Fauna Crossing Provisions and
 Exclusion Fencing Concept Plan**



Proposed Offset Areas

FIGURE 16

G:\6137041\19_0_GIS\Maps\Working\BORR_South_EPBC_ARI\6137041_016_OffsetProperties_Rev0.mxd
Print date: 21 Jul 2020 - 16:53

Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; Landgate: Roads, LGA Boundaries - 20180501; Imagery - WA Now accessed 20200721; BORR: Proposal Area - 201912; Excluded area - 20200720; MRWA: Offset properties - 20200721. Created by: slt