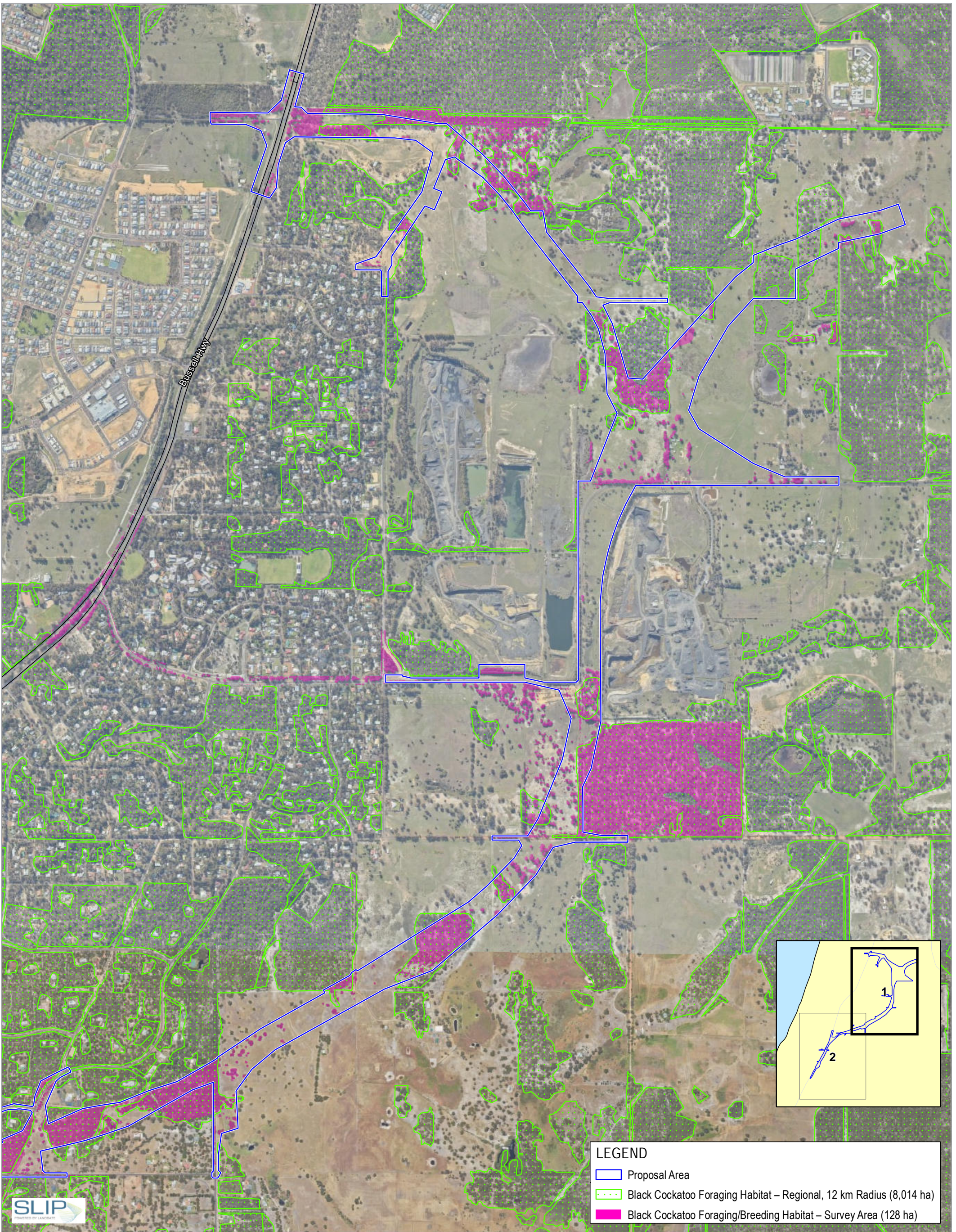


# Figures 18 - 35

- Figure 18 Black Cockatoo Foraging Habitat and Roosting Sites within and adjacent to the Proposal Area
- Figure 19 Black Cockatoo observations within and adjacent to the Proposal Area
- Figure 20 Black-stripe Minnow observations and habitat extent within and adjacent to the Proposal Area
- Figure 21 Phascogale habitat extent within 5 km of the Proposal Area
- Figure 22 Phascogale observations and habitat extent within and adjacent to the Proposal Area
- Figure 23 Acid Sulfate Soil risk mapping
- Figure 24 Hydrology, groundwater and surface water locations
- Figure 25 Bunbury annual rainfall recorded at BoM stations 9514 (1877-1985); 9885 (1985-1995); 9965 (1995-2019)
- Figure 26 Temperature and rainfall recorded at Bunbury BoM station for years 1995 to 2020
- Figure 27 Aboriginal and European Heritage Sites within 5 km of the Proposal Area
- Figure 28 Aboriginal Heritage Inquiry System search and field survey results
- Figure 29 Existing land use
- Figure 30 Day time forecast traffic noise LAeq,day Existing 2018 noise levels at the most affected façade
- Figure 31 Forecast traffic noise LAeq,day Build 2041 noise levels at the most affected façade - No treatment
- Figure 32 Forecast traffic noise LAeq,day Build 2041 noise levels at the most affected façade - With treatment
- Figure 33 Landscape character units
- Figure 34 Landscape Visual Impact Assessment viewpoint locations
- Figure 35 Photomontages from selected view points within the Proposal Area





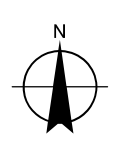
**LEGEND**

	Proposal Area
	Black Cockatoo Foraging Habitat – Regional, 12 km Radius (8,014 ha)
	Black Cockatoo Foraging/Breeding Habitat – Survey Area (128 ha)



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

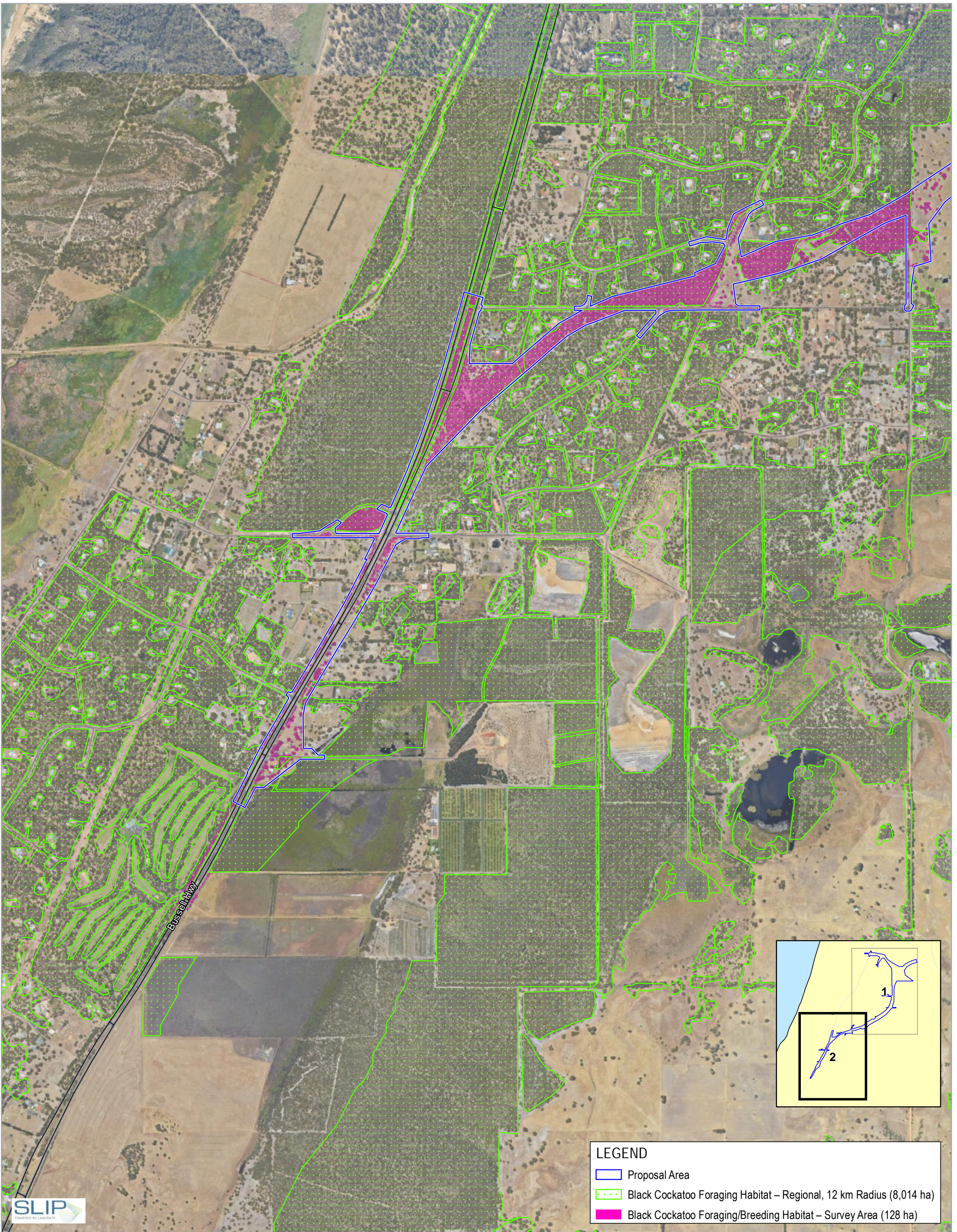
**Black Cockatoo Foraging Habitat and Roosting Sites within and adjacent to the Proposal Area**

Project No. 61-37041  
 Revision No. 1  
 Date 2/10/2020

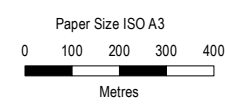
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Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; DBCA: Black Cockatoo Foraging Habitat - 2019; Landgate: Roads - 20180501; Imagery - WA Now accessed 20201002; BORR: Proposal Area - 20191212; Environmental Survey Area - 20200214; Biota: Black Cockatoo Foraging/Breeding Habitat - 20200220. Created by: bmgrogan

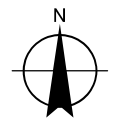




LEGEND	
	Proposal Area
	Black Cockatoo Foraging Habitat – Regional, 12 km Radius (8,014 ha)
	Black Cockatoo Foraging/Breeding Habitat – Survey Area (128 ha)



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

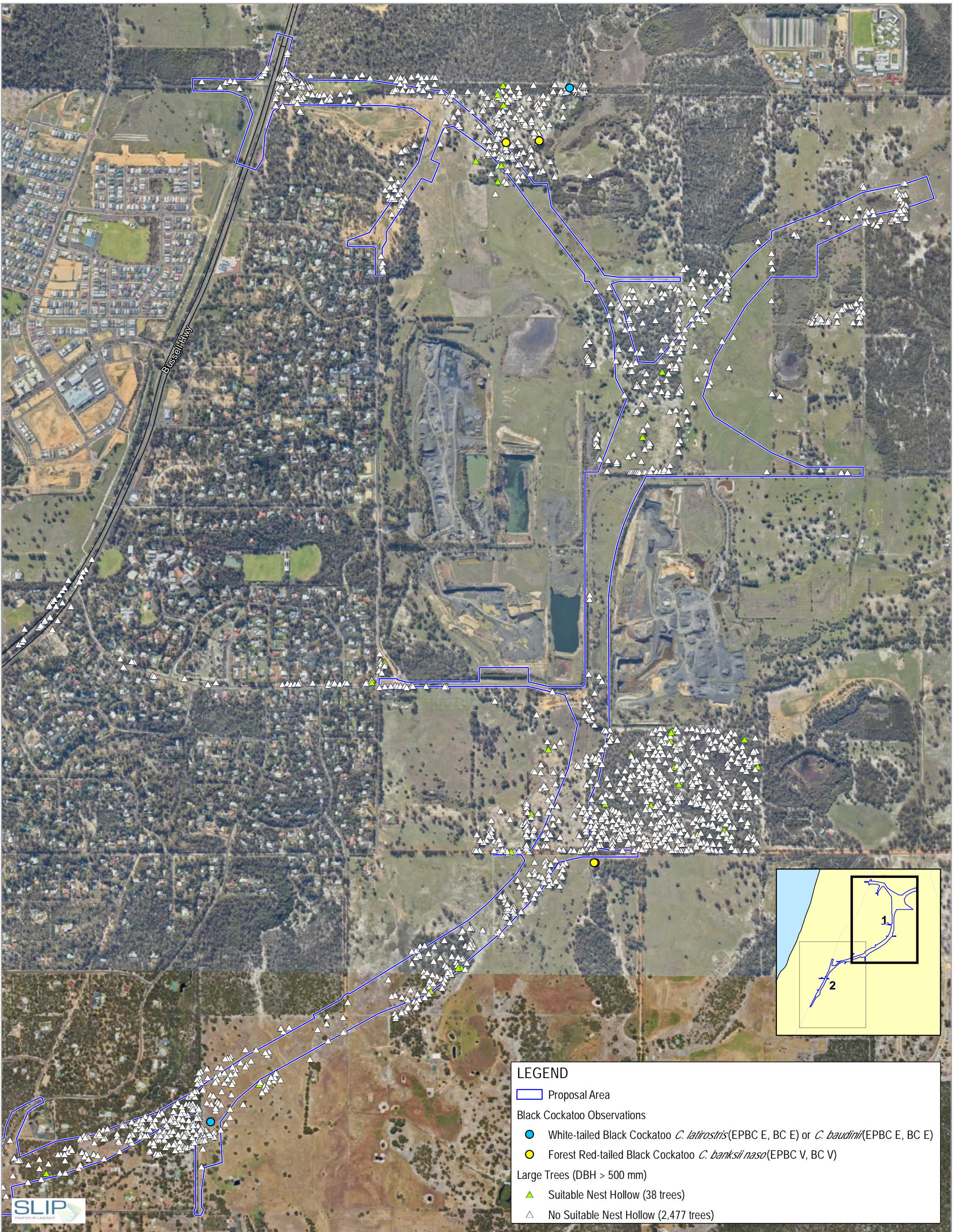


Main Roads Western Australia  
Bunbury Outer Ring Road Southern Section  
  
Black Cockatoo Foraging Habitat and  
Roosting Sites within and adjacent  
to the Proposal Area

Project No. 61-37041  
Revision No. 1  
Date 2/10/2020

FIGURE 18

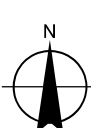




**LEGEND**

- Proposal Area
- Black Cockatoo Observations**
- White-tailed Black Cockatoo *C. latirostris*(EPBC E, BC E) or *C. baudinii*(EPBC E, BC E)
- Forest Red-tailed Black Cockatoo *C. banksii naso*(EPBC V, BC V)
- Large Trees (DBH > 500 mm)**
- ▲ Suitable Nest Hollow (38 trees)
- ▲ No Suitable Nest Hollow (2,477 trees)

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



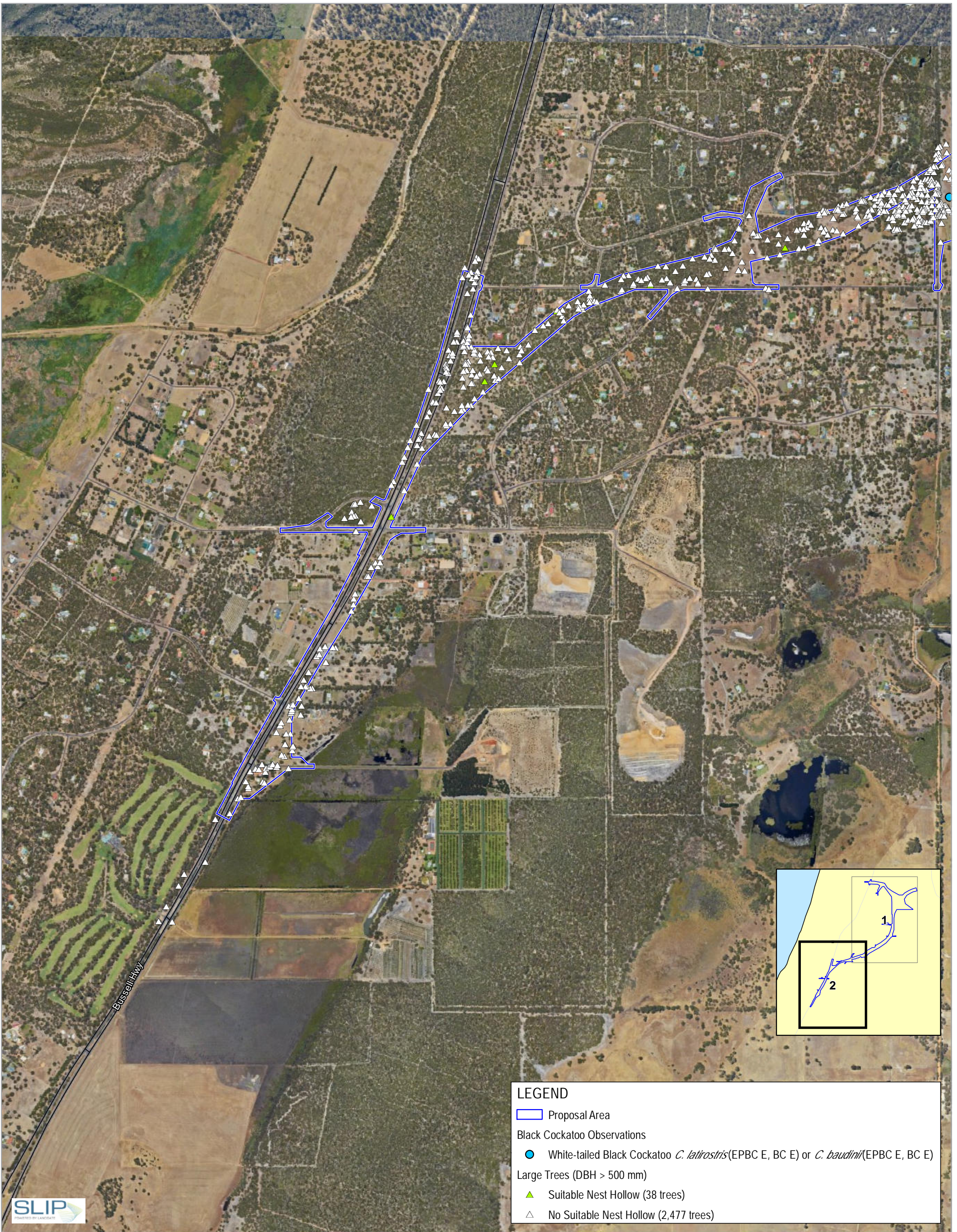
Main Roads Western Australia  
 Bunbury Outer Ring Road Southern Section  
 Black Cockatoo observations within  
 and adjacent to the Proposal Area

Project No. 61-37041  
 Revision No. 3  
 Date 2/09/2020

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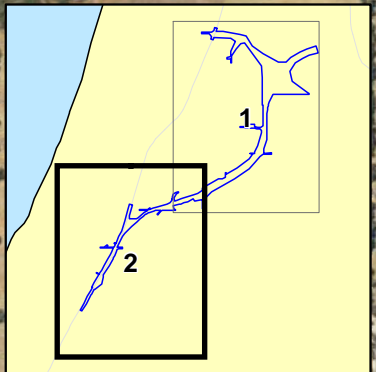
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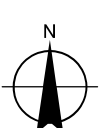
**LEGEND**

- Proposal Area
- Black Cockatoo Observations**
- White-tailed Black Cockatoo *C. latirostris*(EPBC E, BC E) or *C. baudini*(EPBC E, BC E)
- Large Trees (DBH > 500 mm)**
- ▲ Suitable Nest Hollow (38 trees)
- △ No Suitable Nest Hollow (2,477 trees)



Paper Size ISO A3  
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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

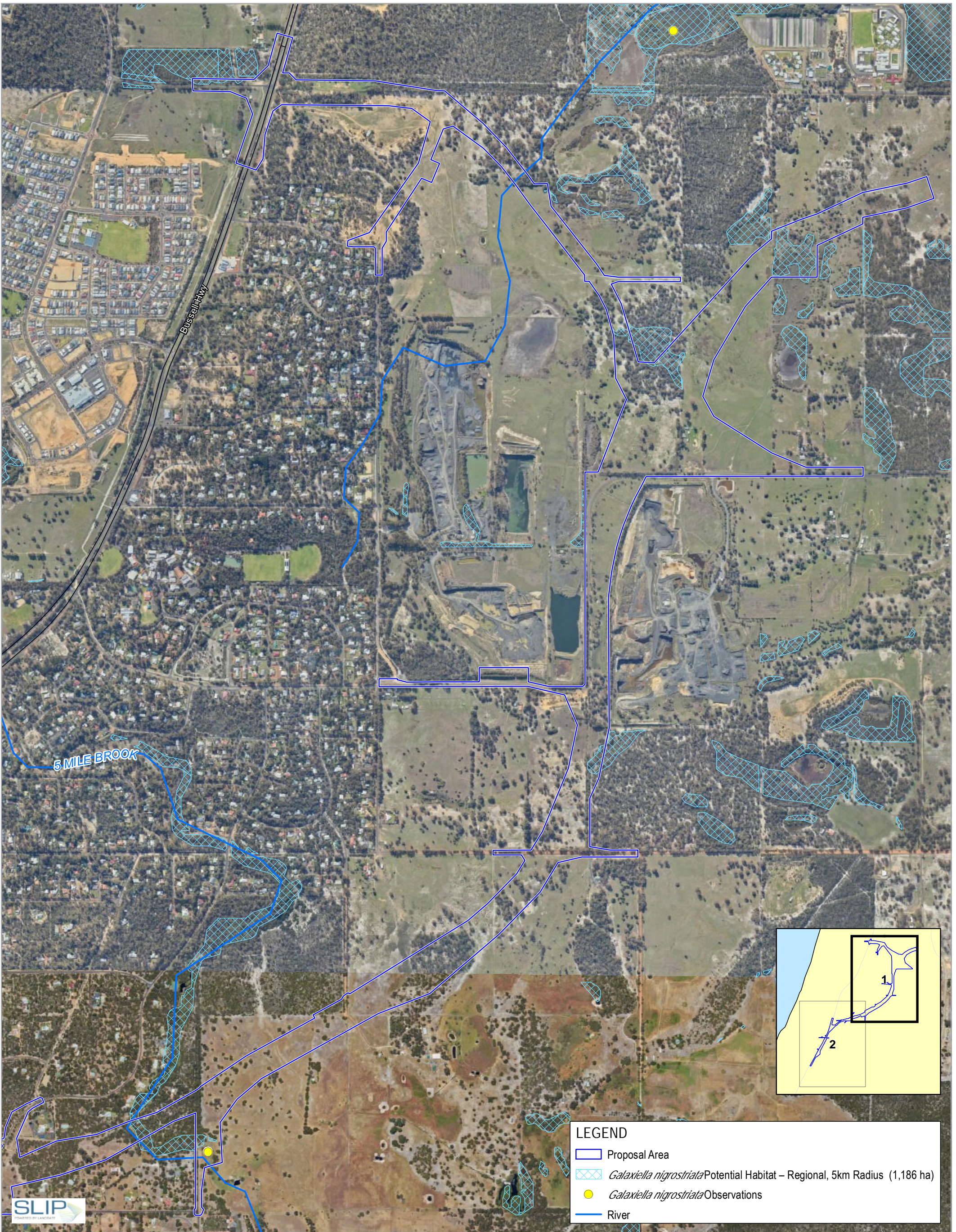
Black Cockatoo observations within  
 and adjacent to the Proposal Area

Project No. 61-37041  
 Revision No. 3  
 Date 2/09/2020

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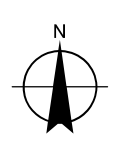


**LEGEND**

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



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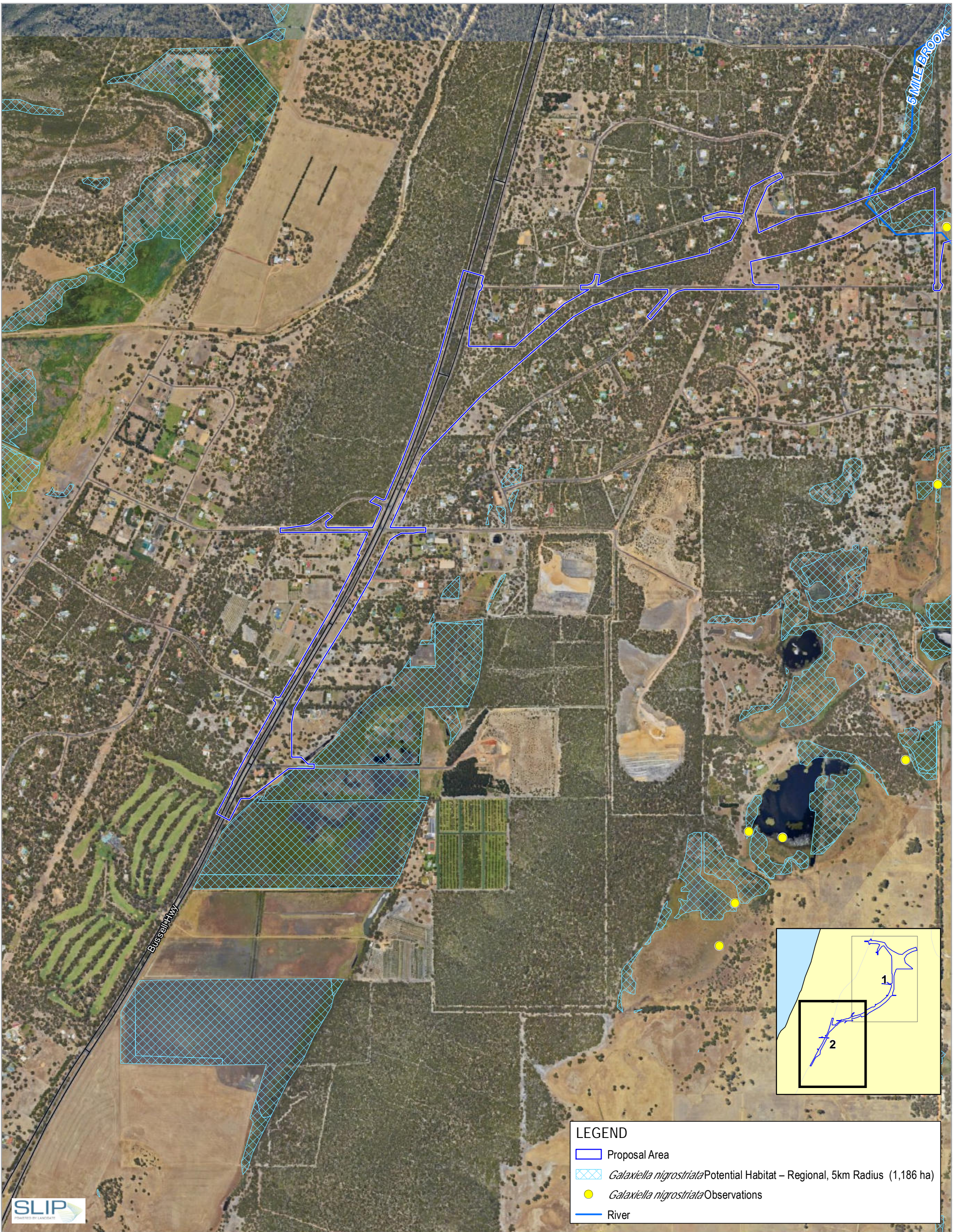


Main Roads Western Australia  
 Bunbury Outer Ring Road Southern Section  
**Black-stripe Minnow observations and habitat extent within and adjacent to the Proposal Area**

Project No. 61-37041  
 Revision No. 1  
 Date 2/09/2020

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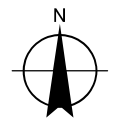
**LEGEND**

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



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 Grid: GDA 1994 Perth Coastal Grid 1994



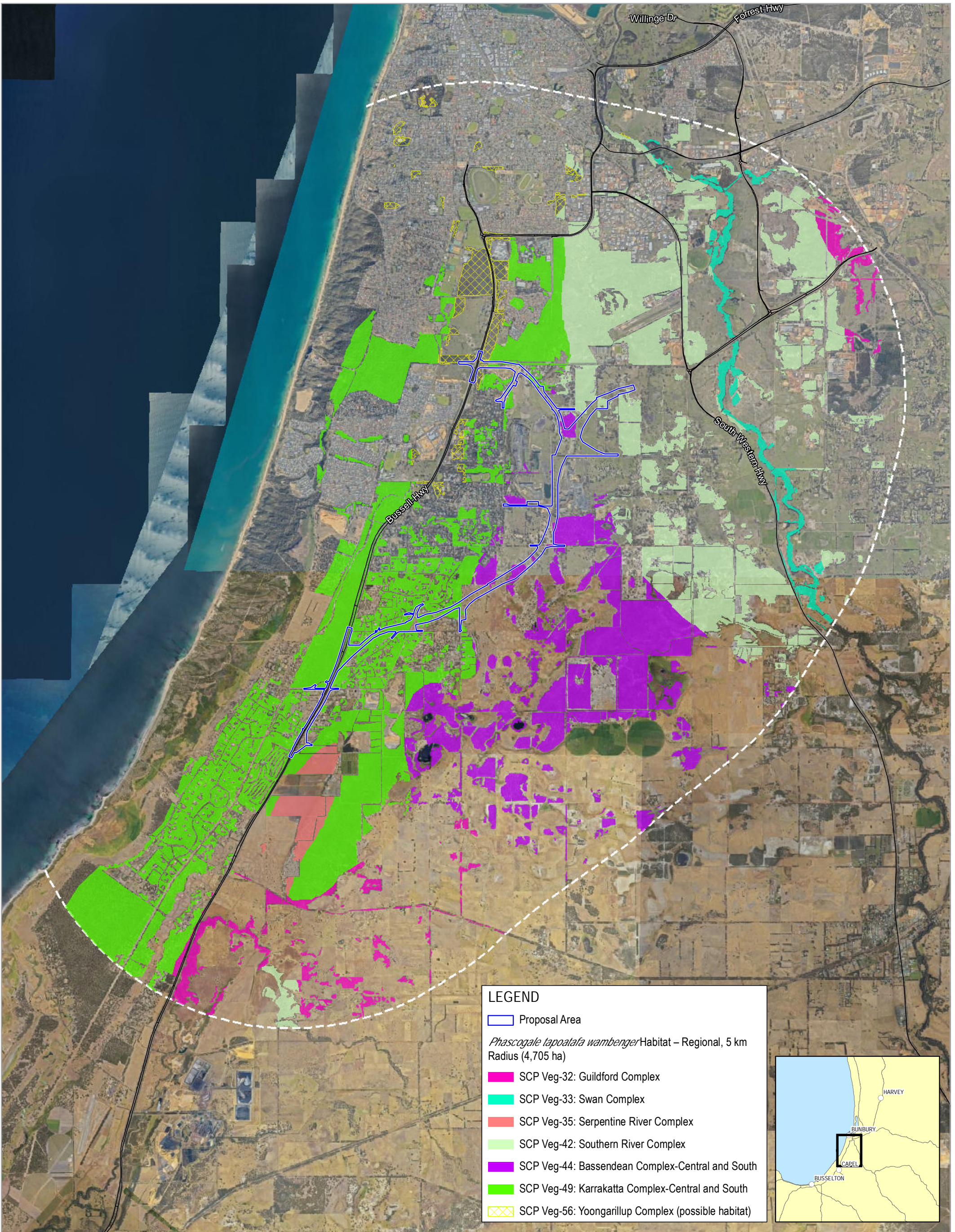
Main Roads Western Australia  
 Bunbury Outer Ring Road Southern Section

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

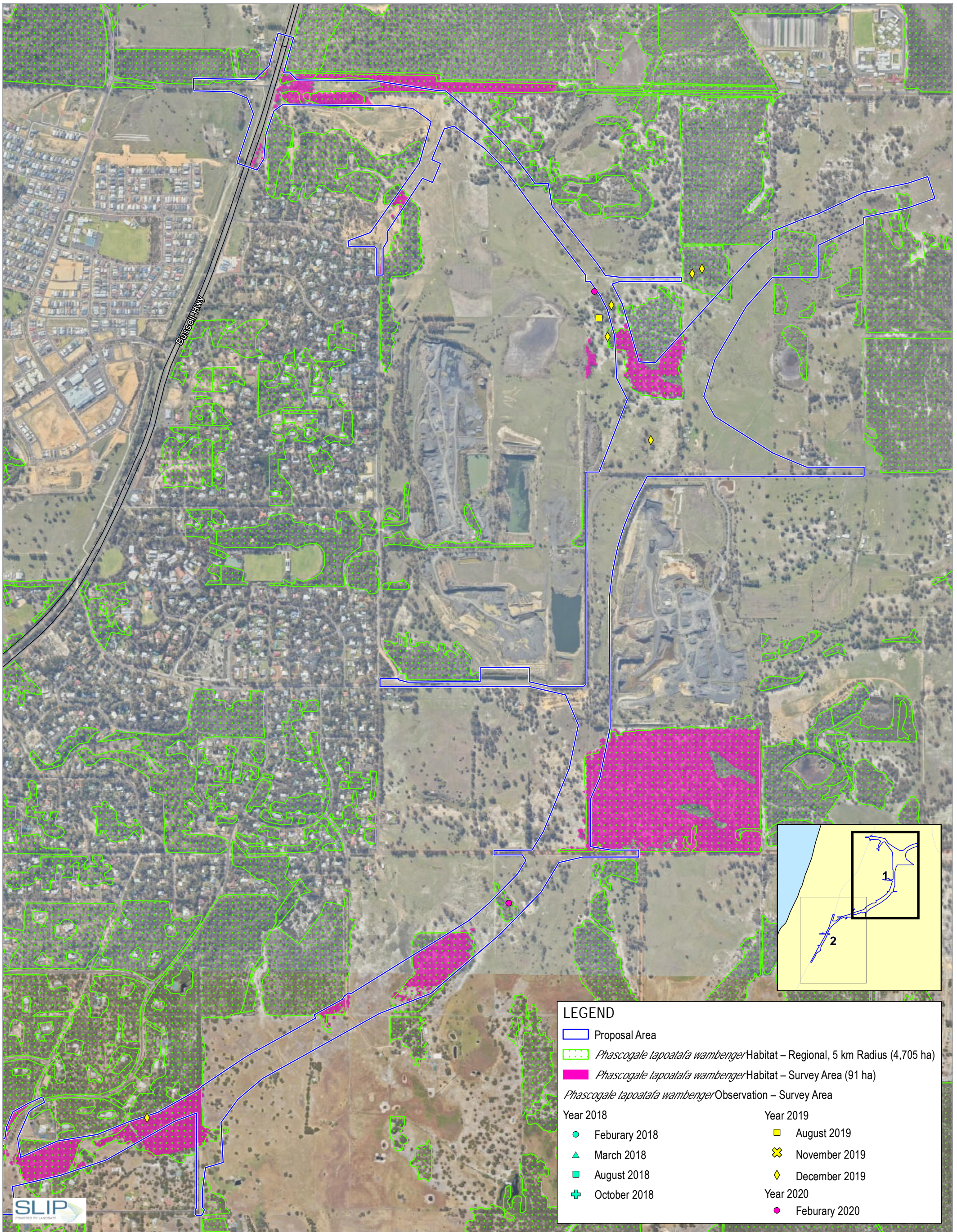
Project No. 61-37041  
 Revision No. 1  
 Date 2/09/2020

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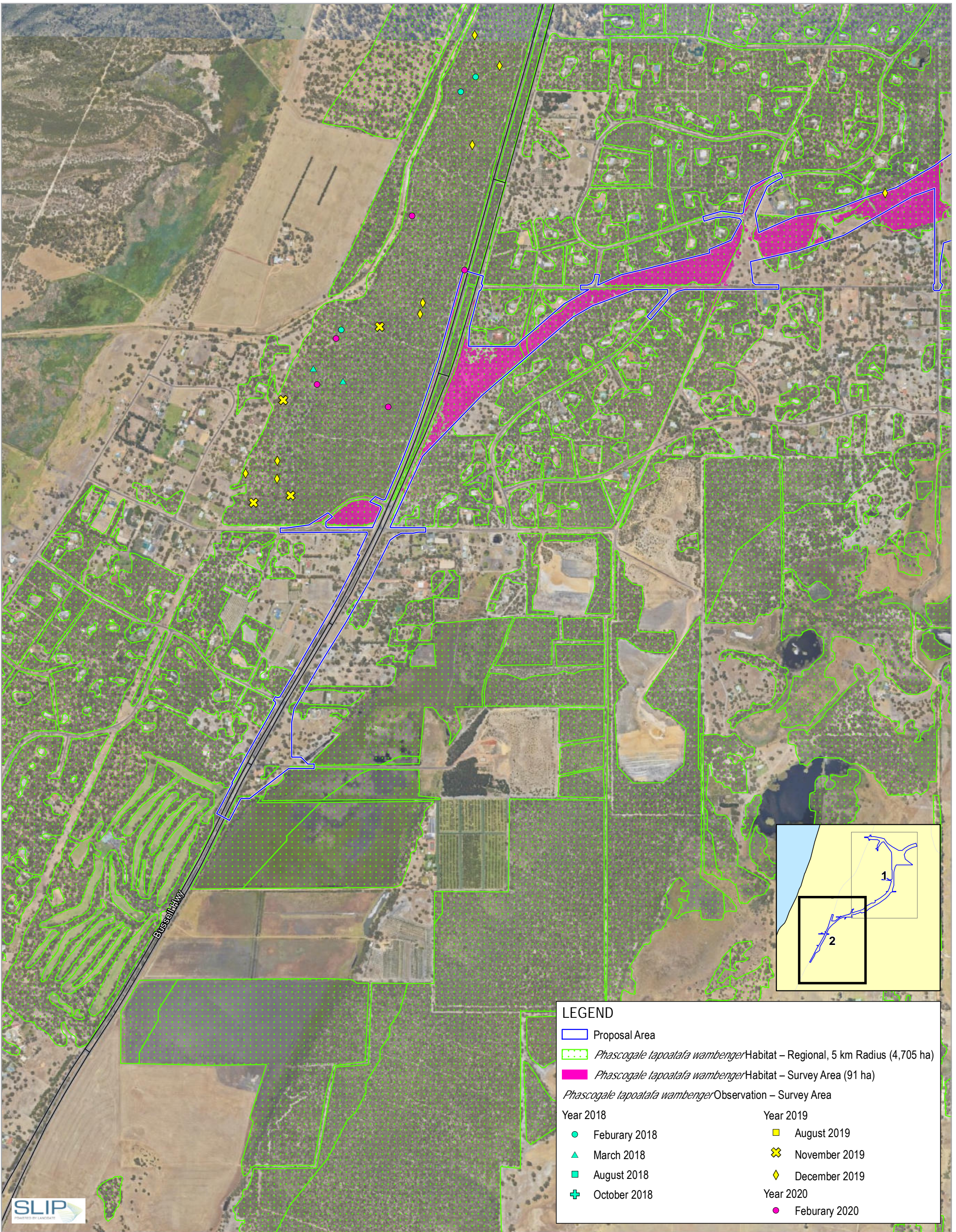
**LEGEND**

- Proposal Area
- Phascogale tapoatafa wambenger*Habitat – Regional, 5 km Radius (4,705 ha)
- Phascogale tapoatafa wambenger*Habitat – Survey Area (91 ha)

*Phascogale tapoatafa wambenger*Observation – Survey Area

<b>Year 2018</b>	<b>Year 2019</b>
<span style="color: cyan;">●</span> February 2018	<span style="background-color: yellow;">■</span> August 2019
<span style="color: cyan;">▲</span> March 2018	<span style="color: orange;">✕</span> November 2019
<span style="background-color: cyan;">■</span> August 2018	<span style="color: orange;">◆</span> December 2019
<span style="color: cyan;">+</span> October 2018	<b>Year 2020</b>
	<span style="color: magenta;">●</span> February 2020





**LEGEND**

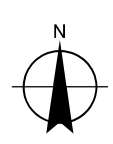
- Proposal Area
- Phascogale tapoatafa wambenger*Habitat – Regional, 5 km Radius (4,705 ha)
- Phascogale tapoatafa wambenger*Habitat – Survey Area (91 ha)

*Phascogale tapoatafa wambenger*Observation – Survey Area

Year 2018	Year 2019
<span style="color: cyan;">●</span> February 2018	<span style="background-color: yellow;">■</span> August 2019
<span style="color: cyan;">▲</span> March 2018	<span style="color: yellow;">✕</span> November 2019
<span style="color: cyan;">■</span> August 2018	<span style="color: yellow;">◆</span> December 2019
<span style="color: cyan;">+</span> October 2018	<b>Year 2020</b>
	<span style="color: magenta;">●</span> February 2020

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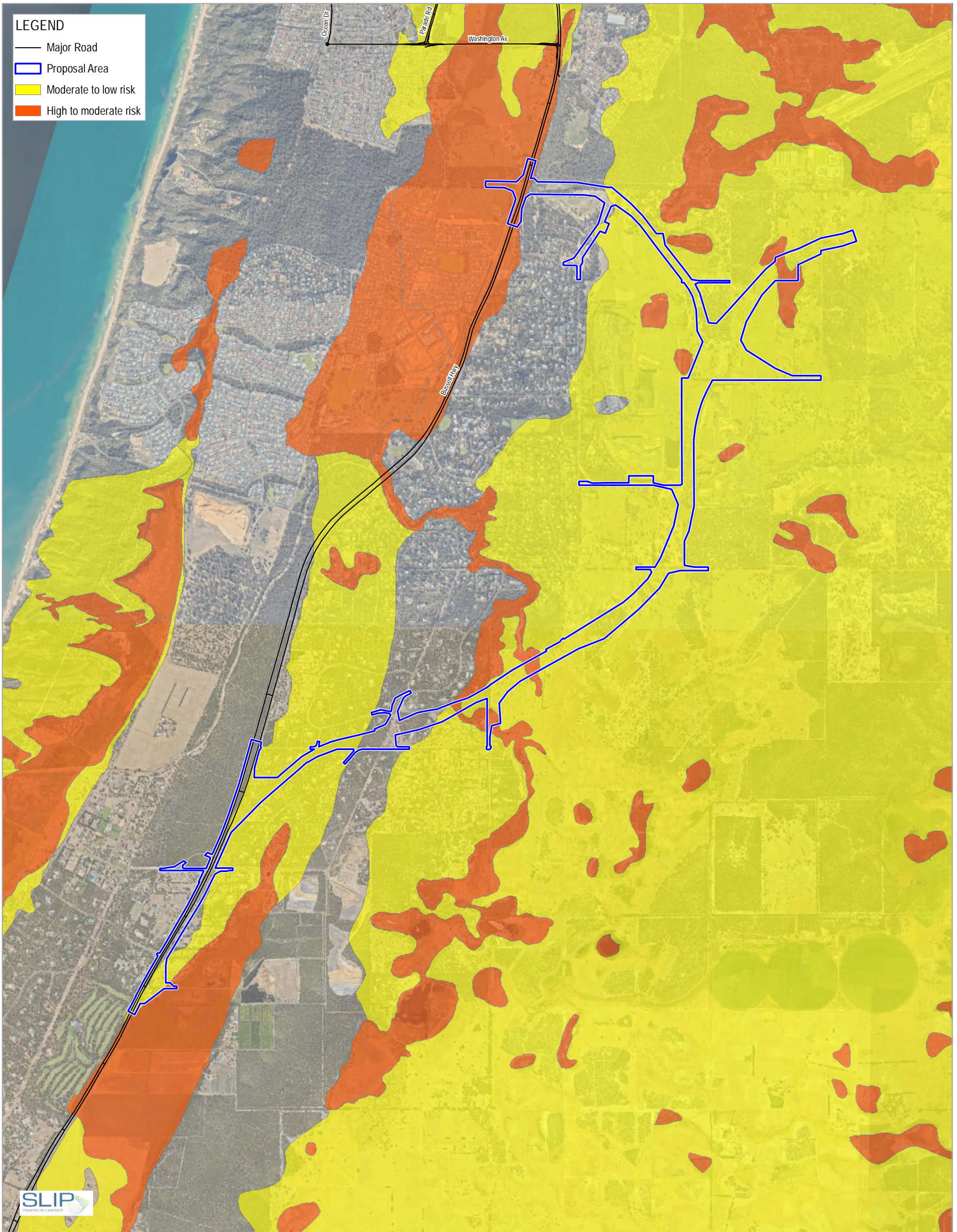
Main Roads Western Australia  
 Bunbury Outer Ring Road Southern Section

Project No. 61-37041  
 Revision No. 1  
 Date 2/09/2020

*Phascogale* observations and habitat extent  
 within and adjacent to the Proposal Area

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**LEGEND**

- Major Road
- ▭ Proposal Area
- Moderate to low risk
- High to moderate risk



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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WESTERN AUSTRALIA

SUNSHINE OUTER RING ROAD (PLANNING AND DEVELOPMENT)

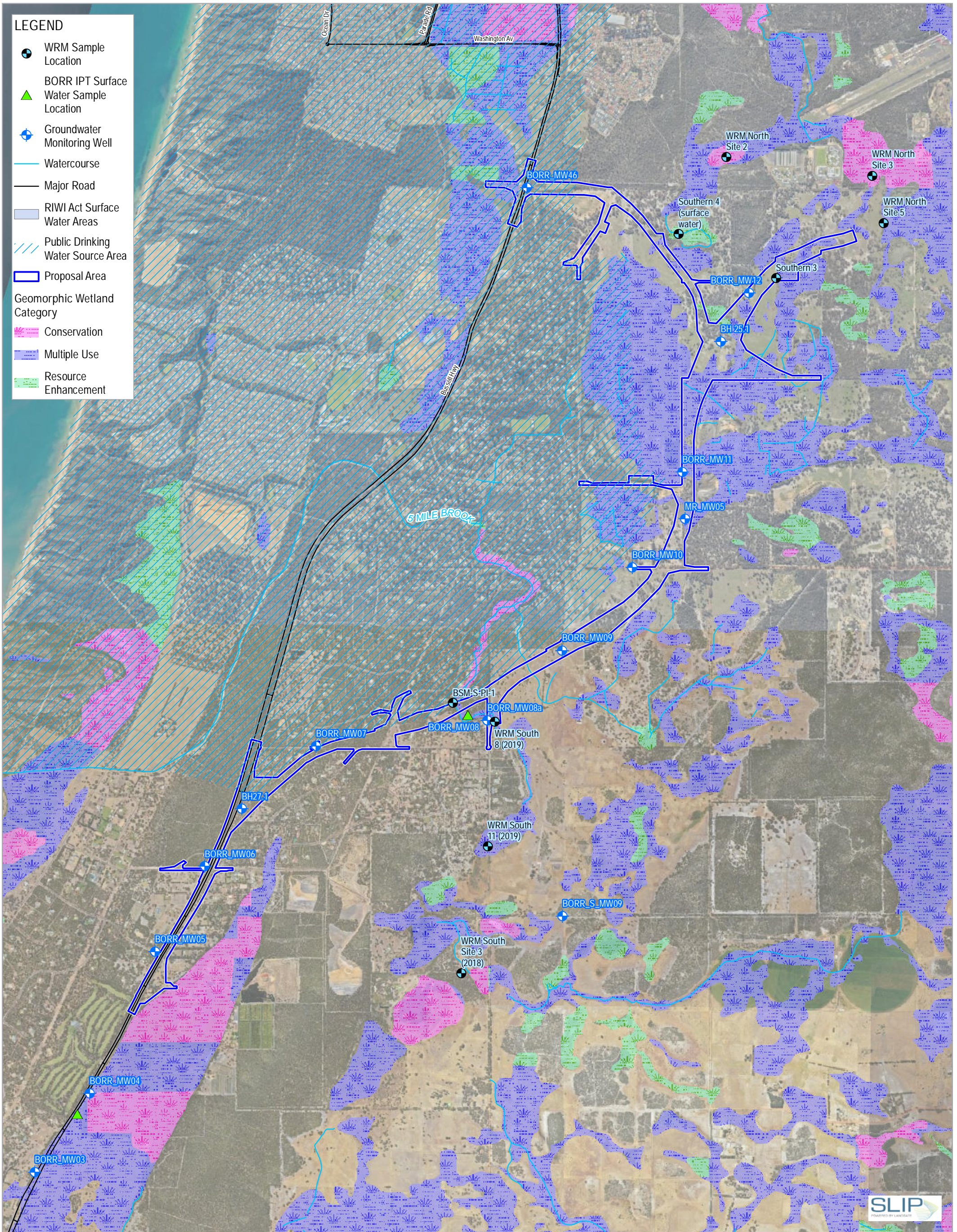
Main Roads Western Australia  
Southern Section  
Environmental Referral Supporting Document

Project No. 61-37041  
Revision No. 0  
Date 8/09/2020

Acid Sulfate Soil Risk Mapping

FIGURE 23





**LEGEND**

- WRM Sample Location
- ▲ BORR IPT Surface Water Sample Location
- ◆ Groundwater Monitoring Well
- Watercourse
- Major Road
- RIWI Act Surface Water Areas
- ▨ Public Drinking Water Source Area
- ▭ Proposal Area

**Geomorphic Wetland Category**

- Conservation
- Multiple Use
- Resource Enhancement



Paper Size ISO A3

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Kilometres

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

**BORR Team**  
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SUNSHINE OUTER RING ROAD (PLANNING AND DEVELOPMENT)

Main Roads Western Australia  
Southern Section  
Environmental Referral Supporting Document

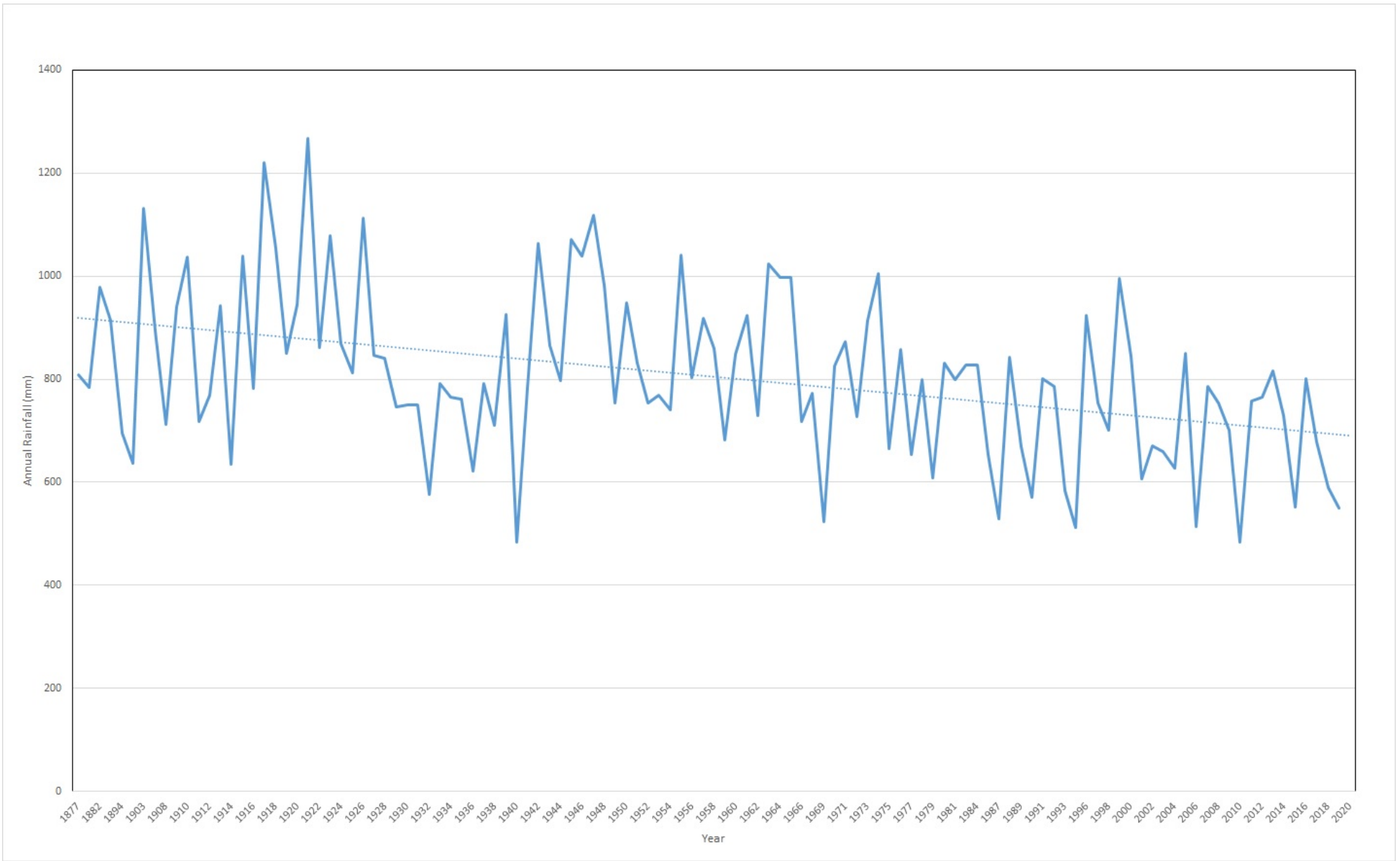
Project No. 61-37041  
Revision No. 0  
Date 10/09/2020

Hydrology, groundwater and  
surface water locations

**FIGURE 24**

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Data source: BORR JV. Groundwater monitoring wells - 2019, Surface water monitoring locations - 2019/03/21, Proposal Area - 2019/07/05, Landgate: Roads, Rivers - 2018, Aerial photography - WA Now accessed 2019/07/16. Created by: bmcgagan





Paper Size ISO A4

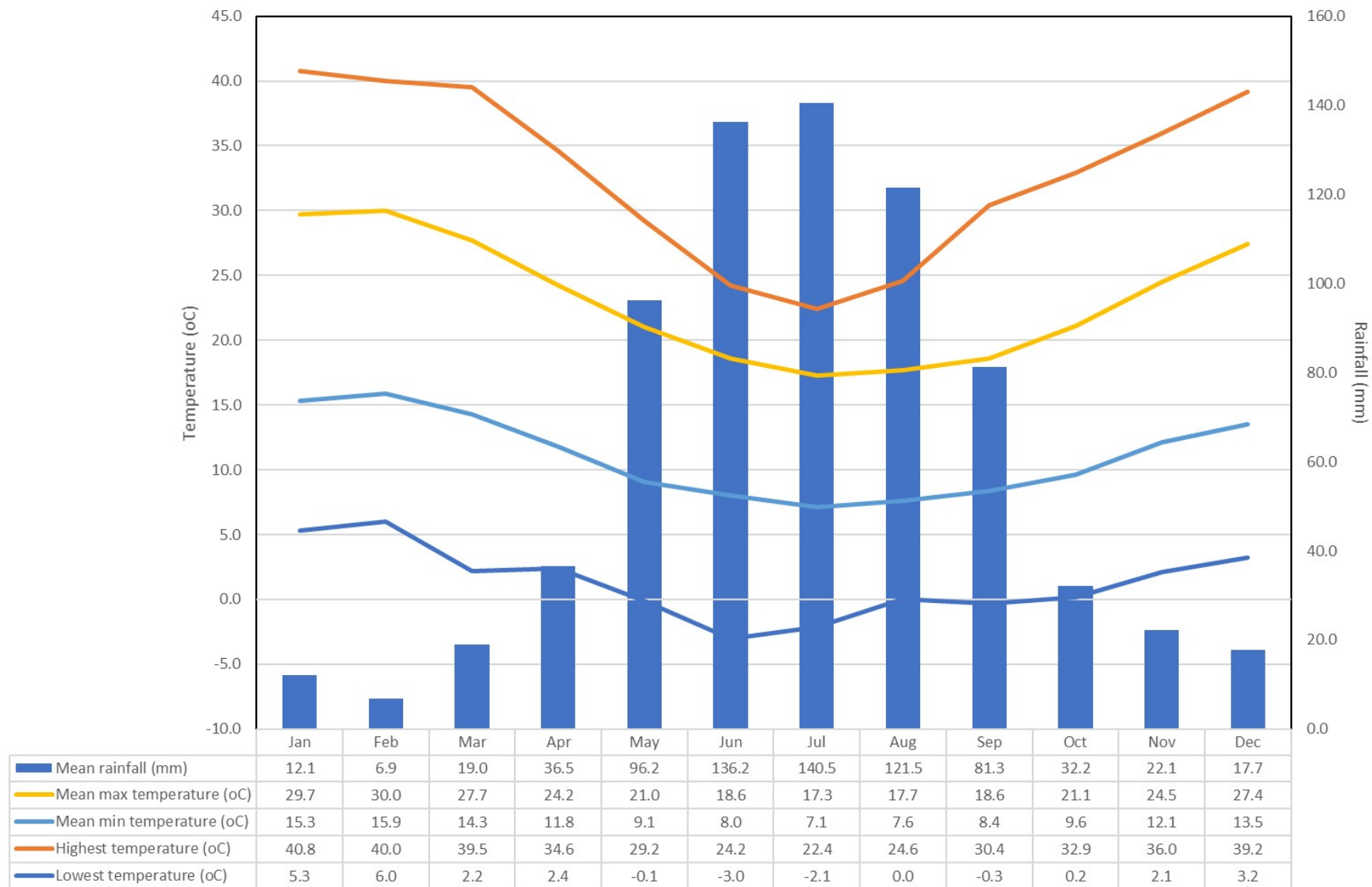


Main Roads Western Australia  
**Bunbury Outer Ring Road Southern Section**  
 Bunbury annual rainfall recorded at  
 BoM stations 9514 (1877-1985); 9885  
 (1985-1995); 9965 (1995-2019)

Project No. 61-37041  
 Revision No. 1  
 Date 27/08/2020

**FIGURE 25**





Paper Size ISO A4



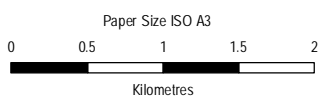
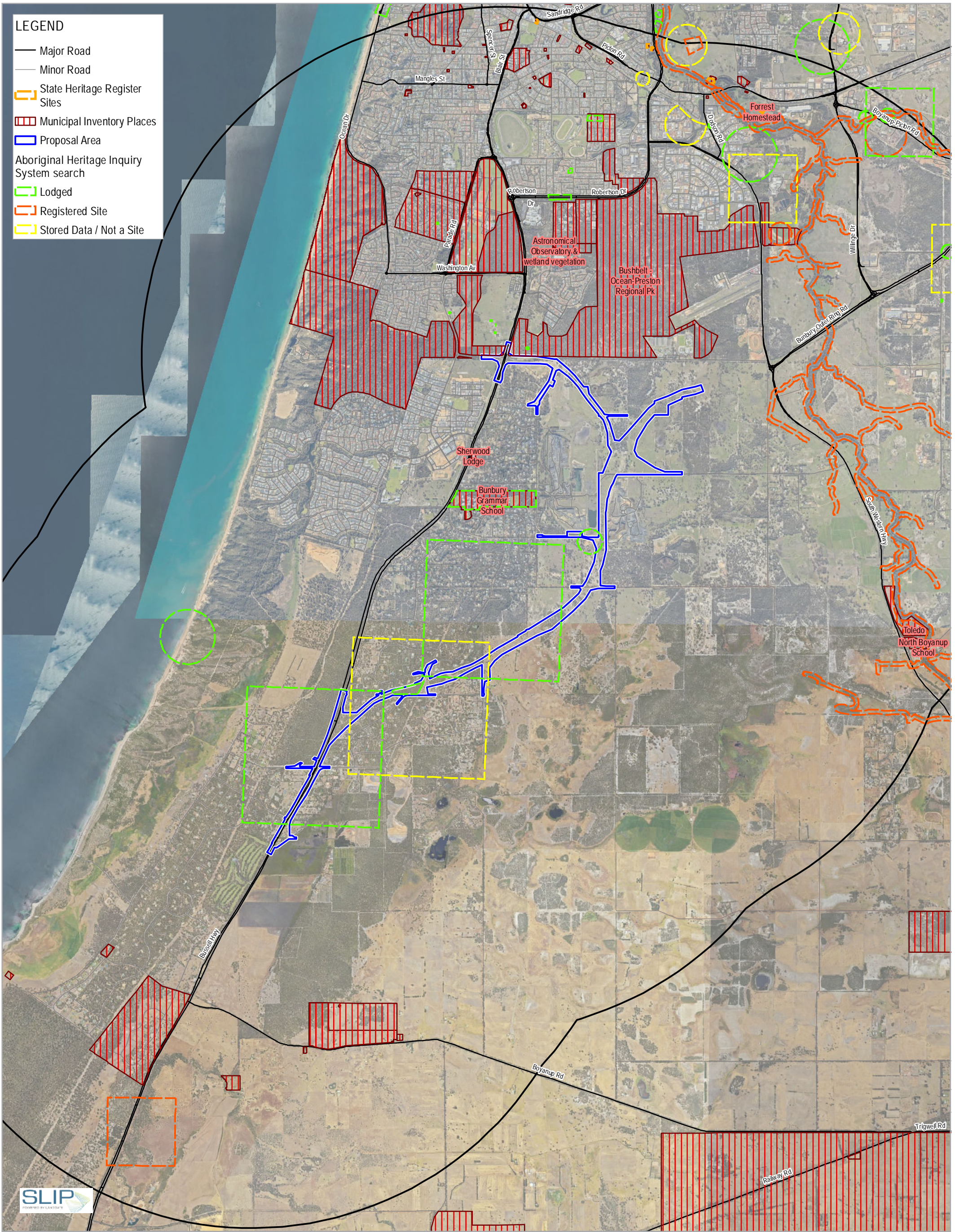
Main Roads Western Australia  
**Bunbury Outer Ring Road Southern Section**

Temperature and rainfall recorded at  
 Bunbury 9965 station for years 1995 to  
 2020

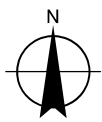
Project No. 61-37041  
 Revision No. 1  
 Date 27/08/2020

**FIGURE 26**





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



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BUNBURY OUTER RING ROAD | PLANNING AND DEVELOPMENT

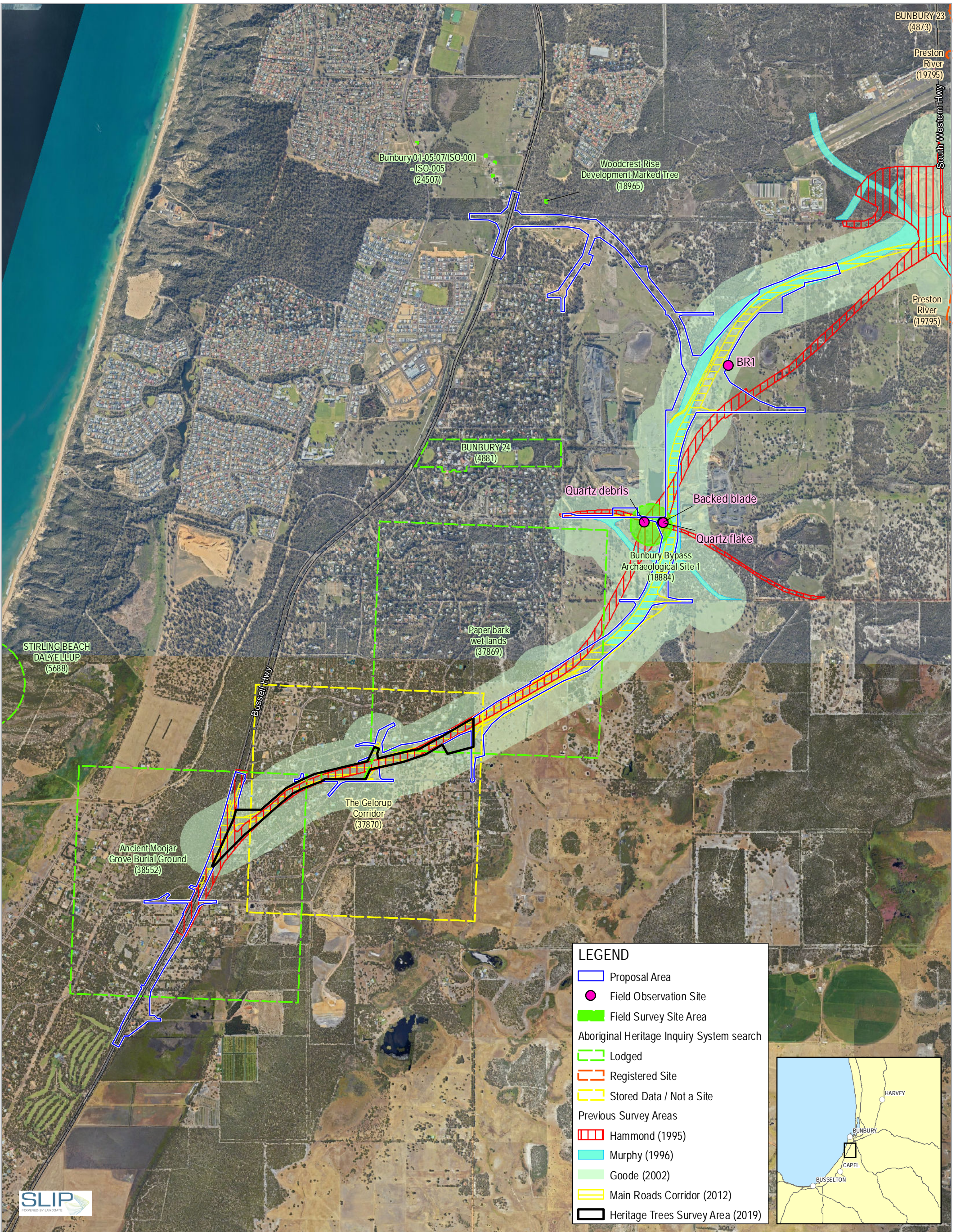
Main Roads Western Australia  
Southern Section  
Environmental Referral Supporting Document

Aboriginal and European Heritage Sites  
within 5 km of the Proposal Area

Project No. 61-37041  
Revision No. 0  
Date 11/09/2020

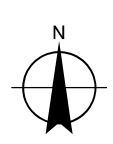
FIGURE 27





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

Aboriginal Heritage Inquiry System  
 search and field survey results

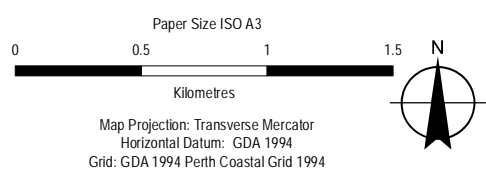
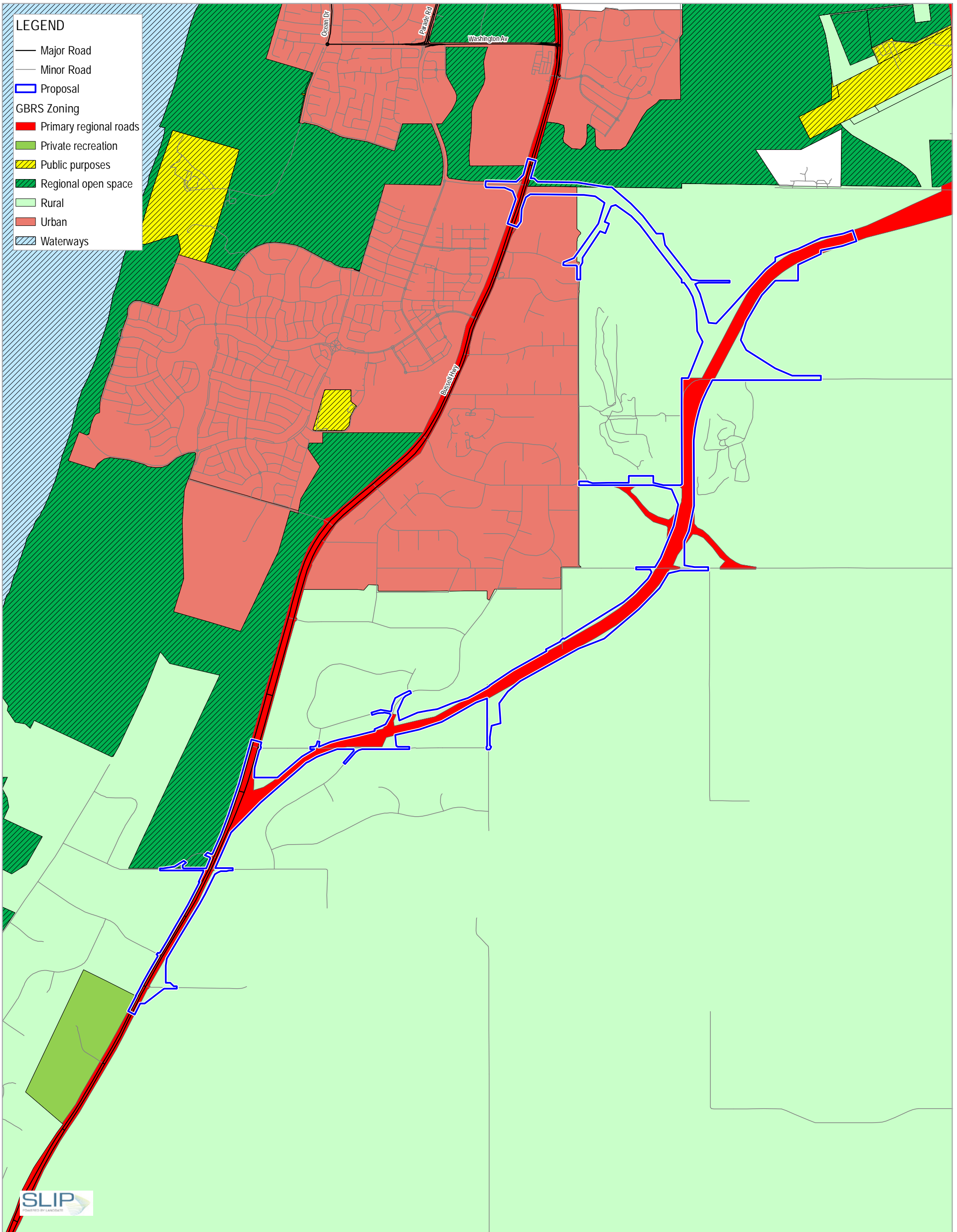
Project No. 61-37041  
 Revision No. 2  
 Date 11/09/2020

FIGURE 28

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Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; Landgate: Roads - 20180501; Imagery - WA Now accessed 20/200911; BORR: Proposal Area - 20191212; Aboriginal Heritage Field Observation Area and Site Location - 20200910; Bad Good & Associates: Previous Survey Areas - 20200513; DPLH: Aboriginal Heritage Inquiry System search - 20200318. Created by: mmkmon





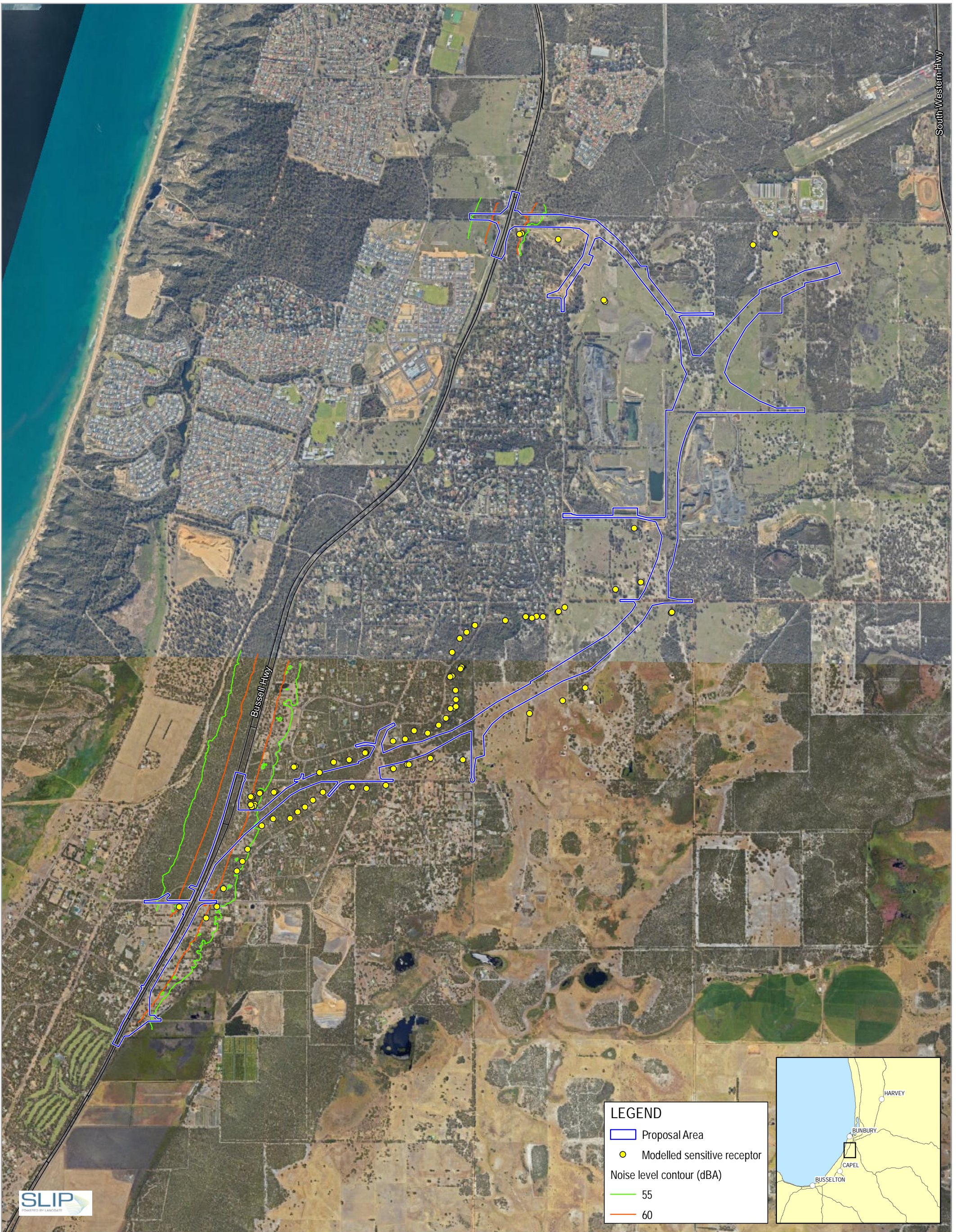
Main Roads Western Australia  
Southern Section  
Environmental Referral Supporting Document

Project No. 61-37041  
Revision No. 0  
Date 16/07/2019

Existing Land Use

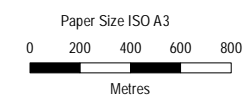
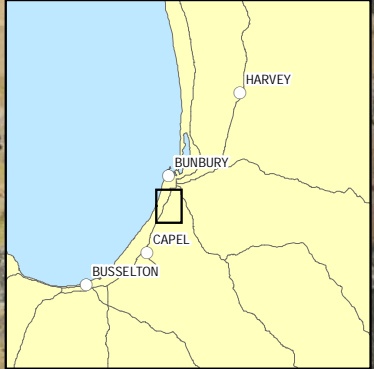
FIGURE 29



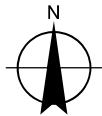


**LEGEND**

- Proposal Area
- Modelled sensitive receptor
- Noise level contour (dBA)
- 55
- 60



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  
**Day time forecast traffic noise LAeq, day**  
**Existing 2018 noise levels at the most affected façade**

Project No. 61-37041  
 Revision No. 2  
 Date 8/09/2020

**FIGURE 30**



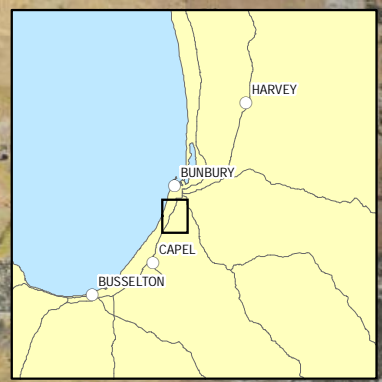


South Western Hwy

Bussell Hwy

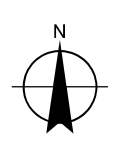
**LEGEND**

- Proposal Area
- Modelled sensitive receptor
- Noise level contour (dBA)
- 55
- 60



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

**Forecast traffic noise LAeq, day  
 Build 2041 noise levels at the most  
 affected façade - No treatment**

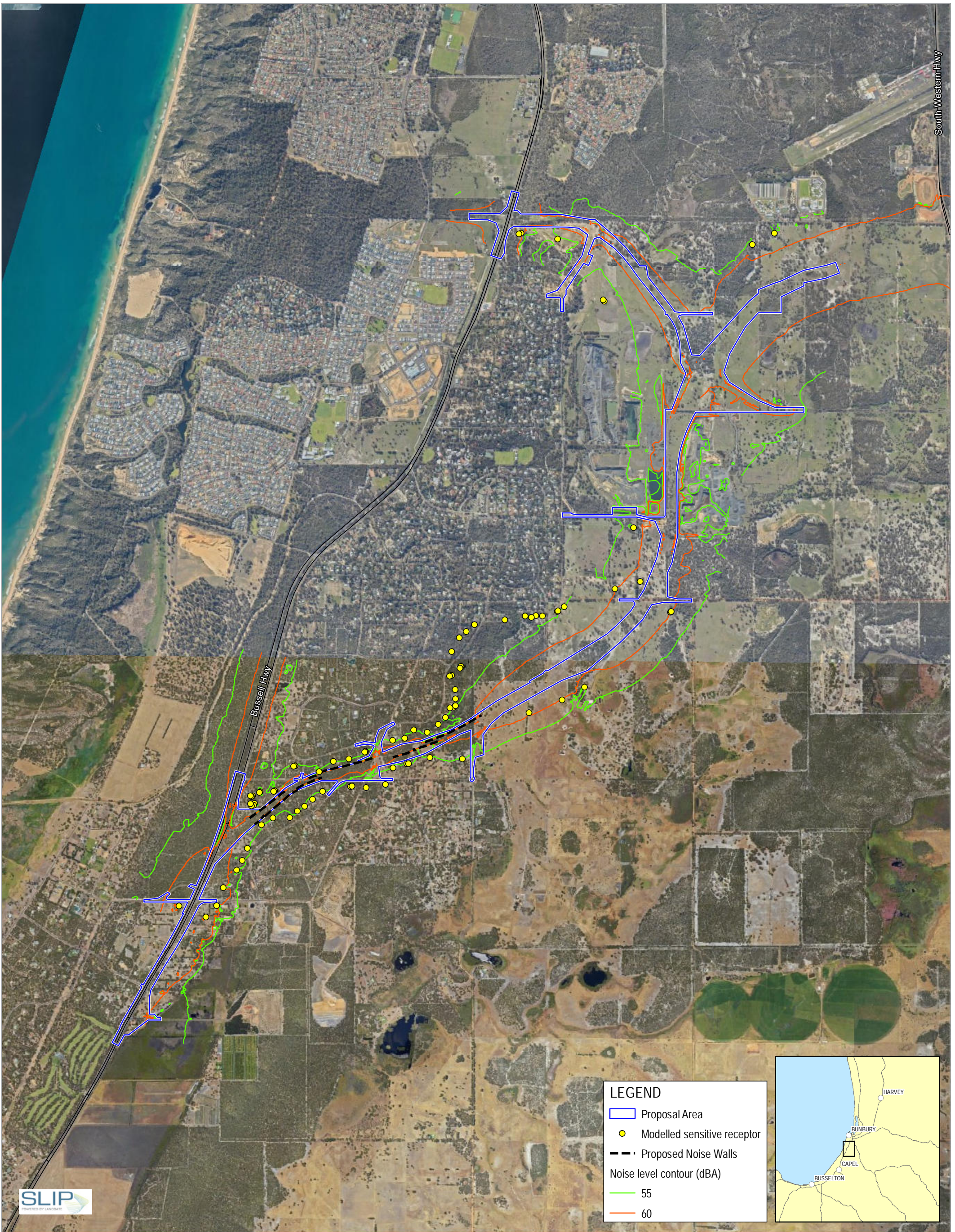
Project No. 61-37041  
 Revision No. 2  
 Date 8/09/2020

**FIGURE 31**

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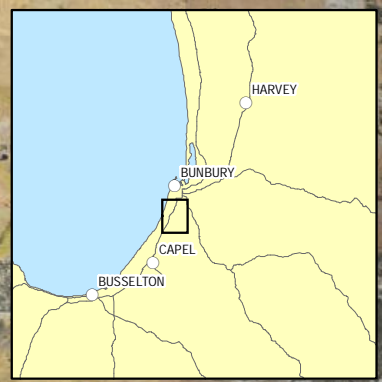
Data source: Geoscience Australia: GeoData Topo 250k Series III - 2006; Landgate: Roads - 20180501; Imagery - WA Now accessed 20200908; BORR: Proposal Area - 20191212; Design Noise Walls - 20200124; Lloyd George Acoustics: Modelled sensitive receptor - 20200324; Noise Contours - 20200318. Created by: b.morgan





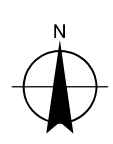
**LEGEND**

- Proposal Area
- Modelled sensitive receptor
- Proposed Noise Walls
- Noise level contour (dBA)
- 55
- 60



Paper Size ISO A3  
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 Metres

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



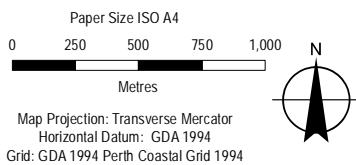
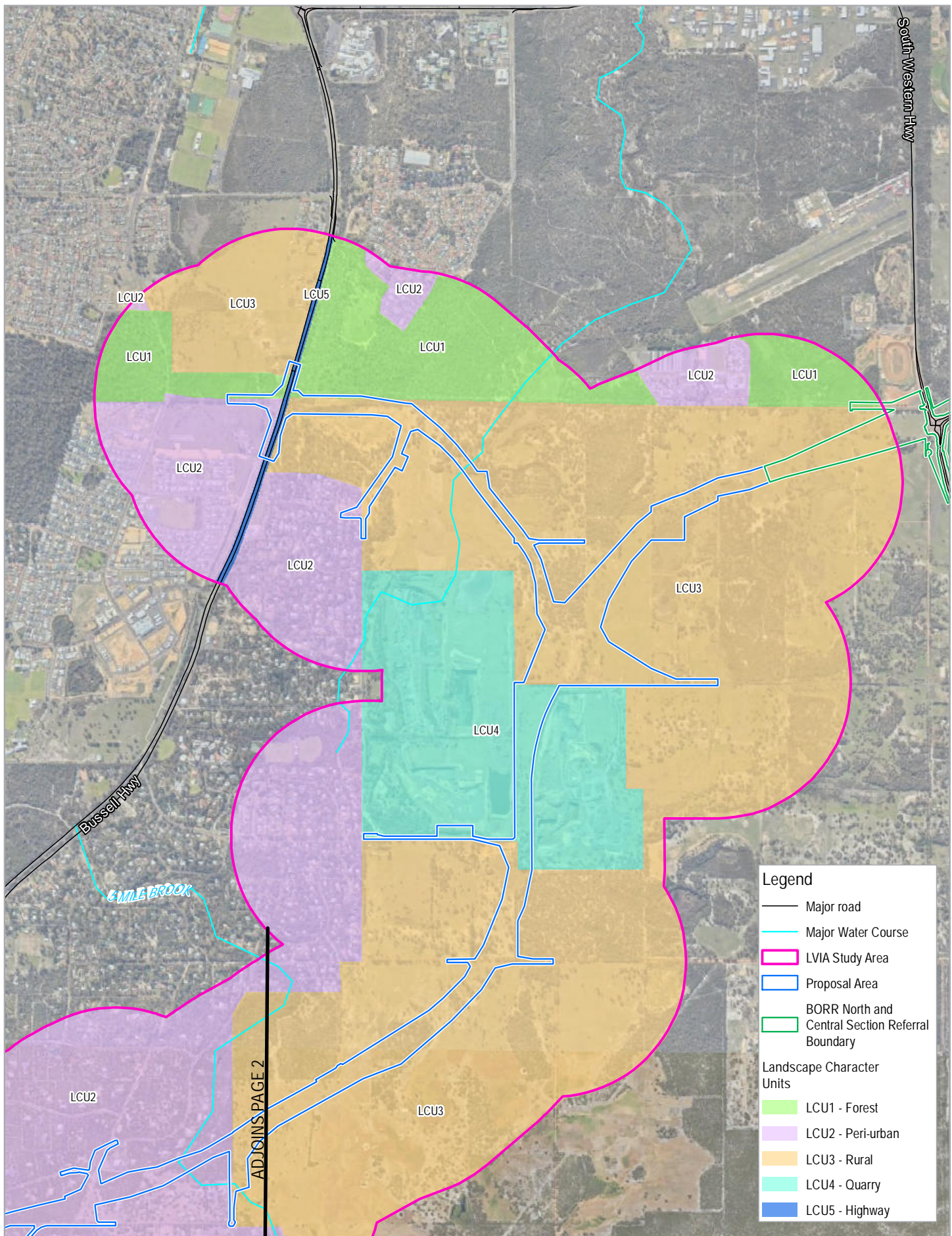
Main Roads Western Australia  
 Bunbury Outer Ring Road Southern Section

Forecast traffic noise  $L_{Aeq, day}$   
 Build 2041 noise levels at the most affected façade - With treatment

Project No. 61-37041  
 Revision No. 2  
 Date 8/09/2020

**FIGURE 32**





Main Roads Western Australia  
Bunbury Outer Ring Road

Landscape Character Units

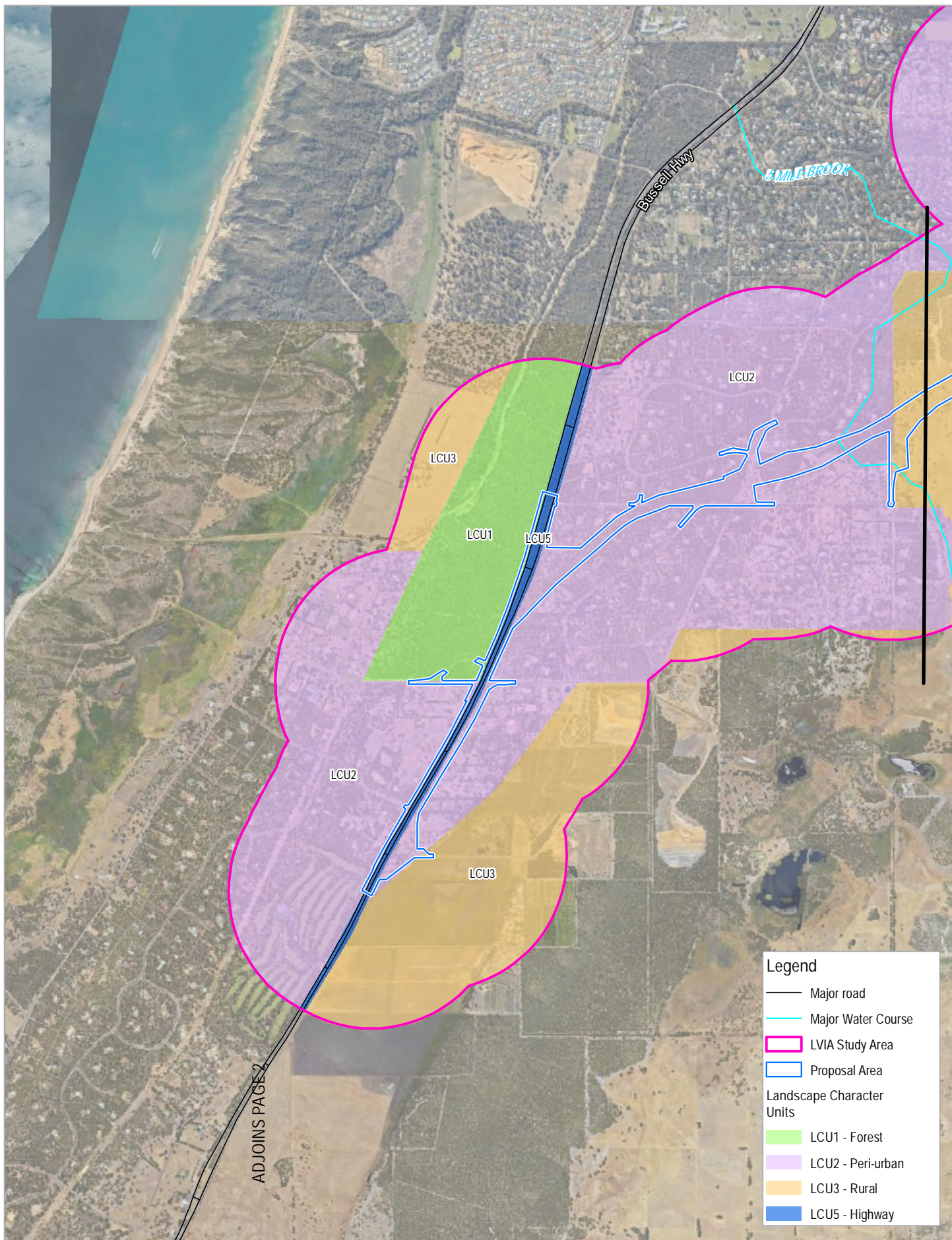
Project No. 61-37041  
Revision No. 0  
Date 09 Sep 2020

FIGURE 33

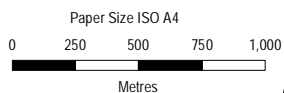
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Print date: 09 Sep 2020 - 15:54

Data source: BORR team: LVIA Study Area - 20200303, Proposal Area Boundary - 20191212, North Section Referral Boundary - 20191016, Landscape Character Units - 20200303; DPLH: Regional Open Space - 201811; Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20200909. Created by: btmorgan





ADJOINS PAGE 2



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



Main Roads Western Australia  
Bunbury Outer Ring Road

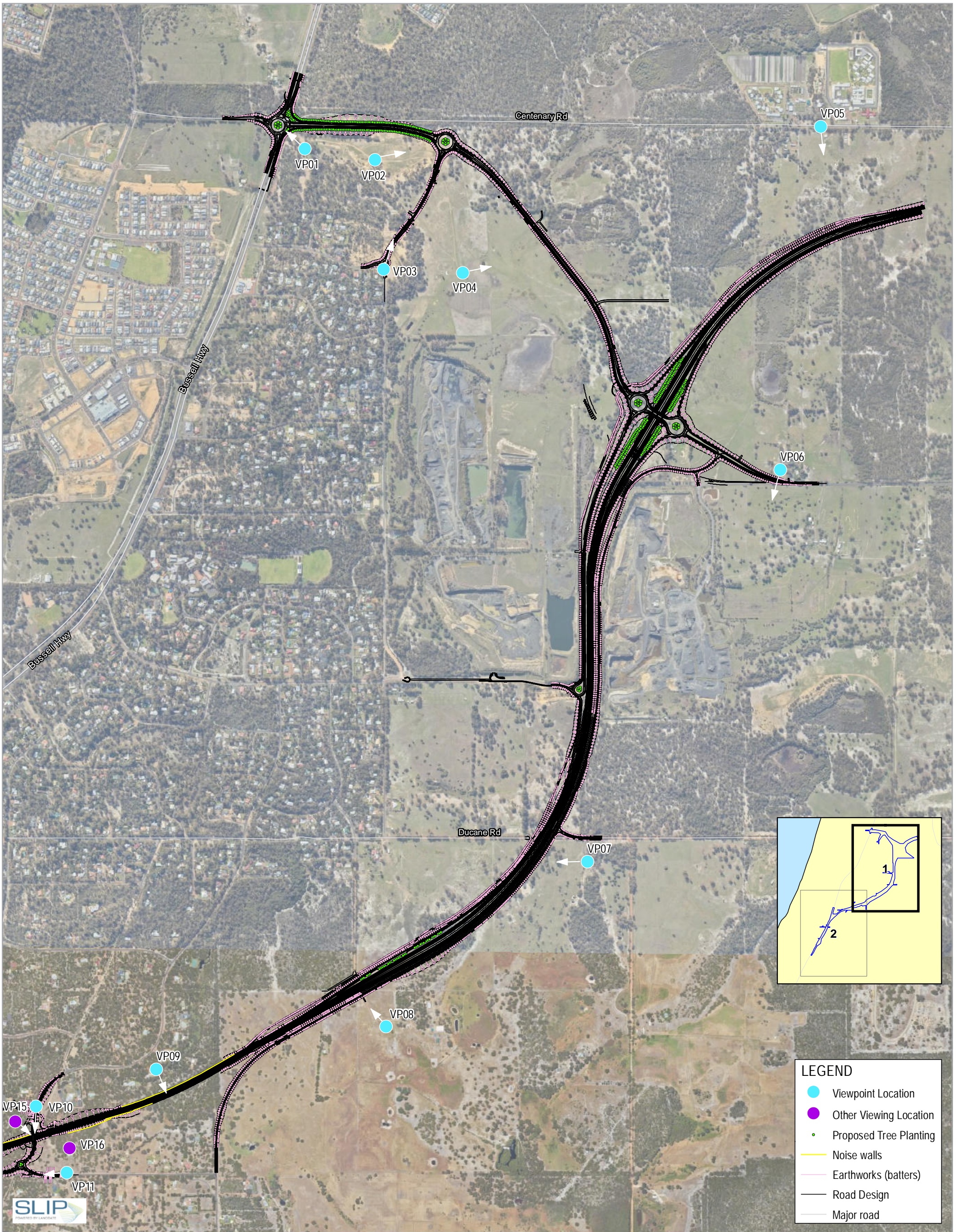
Landscape Character Units

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

Page 2 of 2

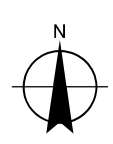
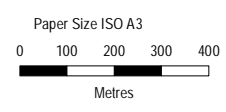
FIGURE 33





**LEGEND**

- Viewpoint Location
- Other Viewing Location
- Proposed Tree Planting
- Noise walls
- Earthworks (batters)
- Road Design
- Major road



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

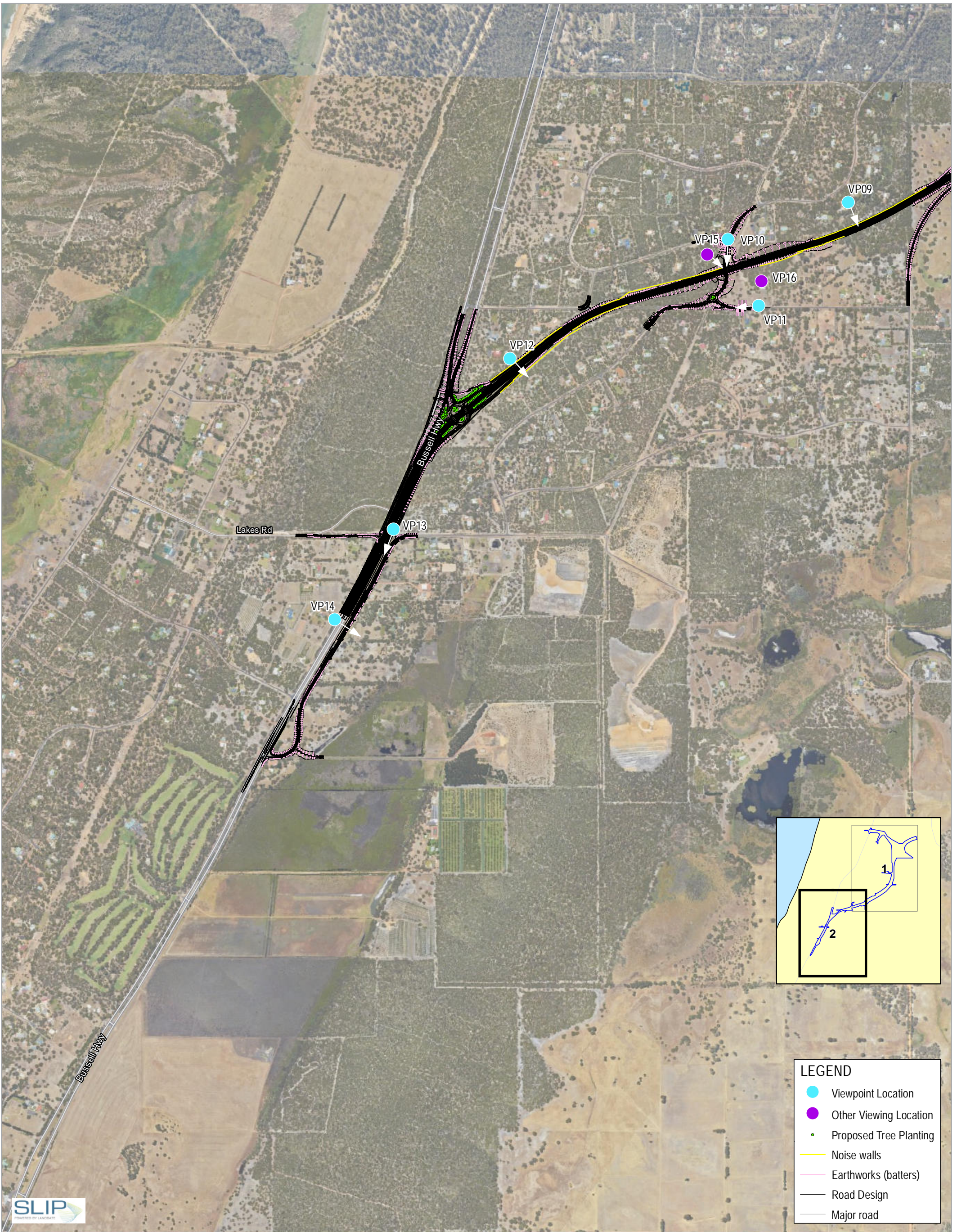
Landscape Visual Impact  
 Assessment viewpoint locations

Project No. 61-37041  
 Revision No. 0  
 Date 9/09/2020

FIGURE 34

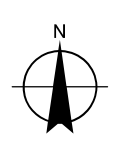
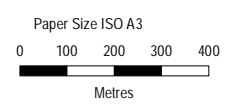
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 Data source: BORR team: Viewpoint Location - 20200304, LVIA Study Area - 20200303, South Section Referral Boundary - 20191212, Landscape Character Units - 20200303, DPLH: Regional Open Space - 201811, Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20200909. Created by: bmrangan





**LEGEND**

- Viewpoint Location
- Other Viewing Location
- Proposed Tree Planting
- Noise walls
- Earthworks (batters)
- Road Design
- Major road



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

Landscape Visual Impact  
 Assessment viewpoint locations

Project No. 61-37041  
 Revision No. 0  
 Date 9/09/2020

FIGURE 34

G:\6137041\119\_0\_GISMaps\Working\BORR South Referral Update\6137041\_033\_BORR\SouthViewpointLoc\_Multipage\_Rev0.mxd  
 Print date: 09 Sep 2020 - 16:10

Data source: BORR team: Viewpoint Location - 20200304, LVIA Study Area - 20200303, South Section Referral Boundary - 20191212, Landscape Character Units - 20200303, DPLH: Regional Open Space - 201811, Landgate: 5m Contours, Water course - 2018, Roads - 201805, LGA Boundaries - 20180319, Imagery - WA Now accessed: 20200909. Created by: bmorgan





EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 64.35°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 1:54 pm,  
 30<sup>th</sup> January 2020

Location: Bussell Highway Gelorup  
 Coordinates: 374291.270,13695072.139  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 32.0 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

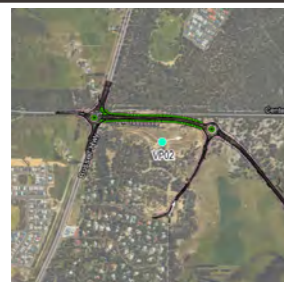
**Viewpoint 02**

Figure 35 Photomontages from selected view points within the Proposal Area Page 1 of 8





PROPOSED VIEW, YEAR 5



View Direction: 64.35°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 1:54 pm,  
 30<sup>th</sup> January 2020

Location: Bussell Highway Gelorup  
 Coordinates: 374291.270,13695072.139  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 32.0 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

Bunbury Outer Ring Road, Southern Section  
 Main Roads  
**Viewpoint 02**  
 Figure 35 Photomontages from selected view  
 points within the Proposal Area Page 2 of 8

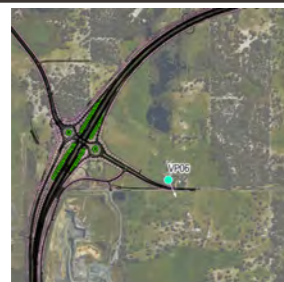




EXISTING VIEW



PROPOSED VIEW, YEAR 0







PROPOSED VIEW, YEAR 5



View Direction: 179.83°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 2:53 pm,  
 30<sup>th</sup> January 2020

Location: Lillydale Road  
 North Boyanup  
 Coordinates: 376216.252, 1369508.407  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 22.6 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

### Viewpoint 06

Figure 35 Photomontages from selected view points within the Proposal Area Page 4 of 8





EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 264.19°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 9:15 am,  
 29<sup>th</sup> January 2020

Location: Woods Road Gelorup  
 Coordinates: 372896.888, 13699854.999  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 11.7 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

### Viewpoint 11

Figure 35 Photomontages from selected view points within the Proposal Area Page 5 of 8



PROPOSED VIEW, YEAR 5



View Direction: 264.19°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 9:15 am,  
 29<sup>th</sup> January 2020

Location: Woods Road Gelorup  
 Coordinates: 372896.888, 13699854.999  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 11.7 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

**Viewpoint 11**

Figure 35 Photomontages from selected view points within the Proposal Area Page 6 of 8





EXISTING VIEW



PROPOSED VIEW, YEAR 0



View Direction: 122.67°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 12:56 pm,  
 29<sup>th</sup> January 2020

Location: Woods Road Gelorup  
 Coordinates: 371728.980, 13700115.947  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 24.9 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

### Viewpoint 12

Figure 35 Photomontages from selected view points within the Proposal Area Page 7 of 8





PROPOSED VIEW, YEAR 5



View Direction: 122.67°  
 Horizontal Field Of View: 80°  
 Camera Height: 1.6 m  
 Camera Type: Cannon EOS 6D  
 Lens Type: 50 mm  
 Photograph Time & Date: 12:56 pm,  
 29<sup>th</sup> January 2020

Location: Woods Road Gelorup  
 Coordinates: 371728.980, 13700115.947  
 (GDA 1994 MGA Zone 50)  
 Viewpoint Elevation: 24.9 m  
 Date of Photomontage: 9<sup>th</sup> March 2020  
 Issue: v01

### Viewpoint 12

Figure 35 Photomontages from selected view points within the Proposal Area Page 8 of 8