



Development of Lot 1665 Wanneroo Road, Sinagra, WA

Environmental Protection and Biodiversity Conservation Act 1999

EPBC Decision 2017/7921 Approval

Annual Compliance Report (2023/24)

JBS&G Australia Pty Ltd | 65221 | Rev 0

31 July 2024





We acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community.

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte



Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed



Full name (please print)

Sarah Cosoleto

Position (please print)

Development Manager

Organisation (please print including ABN/ACN if applicable)

Stockland Development Pty Ltd ACN: 000064835

Date

1 / 8 / 2024

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1. Introduction

The Lot 1665 Wanneroo Road Sinagra (Illyarrie) was referred to the Department of Climate Change, Energy, the Environment and Water (DCCEEW) (formerly the Department of Agriculture, Water and the Environment) under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) for environmental assessment. Following the environmental assessment, the Project was approved with conditions on 02 September 2019 through the EPBC Decision 2017/7921 Approval (Appendix A).

The approval holder of the EPBC Decision 2017/7921 approval is Stockland Development Pty Ltd, ACN 000064835.

In accordance with Condition 13 of EPBC Decision 2017/7921 Approval, the 'Approval Holder' is required to submit a Compliance Report that addresses the status of the implementation of and level of compliance with the conditions of EPBC 2017/7921 for each 12-month period.

This Compliance Report summarises the results of the audit undertaken by JBS&G Australia Pty Ltd (JBS&G) to assess the Approval Holder's level of compliance against the EPBC Decision 2017/7921 Approval conditions for the 2023/24 reporting period (08 May 2023 to 07 May 2024).

1.1 Project Background

The Action is located at the previously abandoned Lot 1665 Wanneroo Road Sinagra, approximately 34 km north of Perth, Western Australia (WA). The Action comprises clearing black cockatoo habitat and Banksia Woodlands of the Swan Coastal Plain ecological community for residential development within the development area. Up to 14.5 ha of black cockatoo habitat clearing has been authorised.

1.2 Environmental Approval to Implement the Project

The Action was determined to be a 'Controlled Action' due to the potential for significant effects on the following Matters of National Environmental Significance (MNES), including:

- black cockatoo habitat; and
- Banksia Woodlands of the Swan Coastal Plain ecological community.

The Action was approved under the EPBC Act in September 2019 through the EPBC 2017/7921 Approval (Appendix A).

2. Current Status

The approval holder commenced construction of the action in the reporting period. Activities undertaken in the reporting period included:

- Removal of existing infrastructure
- Clearing of native vegetation
- Earthworks
- Civil works
- Lot 50 Offset Management Actions (weed monitoring, weed control, fencing, signage)

3. Audit Methodology

3.1 Audit Plan

3.1.1 Purpose & Scope

This Compliance Report has been prepared for the reporting period from 08 May 2023 to 07 May 2024 to fulfil the requirements of Condition 13.

Condition 13 requires the approval holder to publish a report on a 12-month basis, addressing compliance against conditions in EPBC 2017/7921 Approval (Appendix A).

Condition 13 states:

*“The approval holder must prepare a **compliance report** for each 12-month period following the date of **commencement of the action**, or otherwise in accordance with an annual date that has been agreed to in writing by the **Minister**. The approval holder must:*

- a. Publish each **compliance report** on the **website** within 60 **business days** following the relevant 12 month period;*
- b. Notify the **Department** by email that a **compliance report** has been published on the website within five **business days** of the date of publication;*
- c. Keep all **compliance reports** publicly available on the **website** until this approval expires;*
- d. Exclude or redact **sensitive ecological data** from **compliance reports** published on the **website**; and*
- e. Where any **sensitive ecological data** has been excluded from the version published, submit the full **compliance report** to the **Department** within 5 **business days** of publication.”*

3.1.2 Methodology

A compliance audit was undertaken by JBS&G in April and June 2024 to inform this Compliance Report. The audit involved a site inspection (16/04/2024) and consultation with the key persons associated with the Action and review of relevant documentation to assess the level of compliance against the approval conditions of the EPBC 2017/7921 Approval. The key persons consulted during the audit are listed below in Table 3.1.

Table 3.1: Key Personnel Consulted for the Audit

Personnel	Position
Sarah Cosoleto	Development Manager, Stockland
Lachie Hogg	Assistant Development Manager, Stockland
Anthony Coci	Project Manager, Georgiou

3.1.3 Terminology

The ‘Status’ field of audit table (refer to Section 4.1) describes the level of compliance against the approval conditions. In 2023, the DCCEEW issued the *Annual Compliance Report Guidelines* (DCCEEW 2023). Terminology from this guidance has been applied in the audit and is listed below in Table 3.2.

Table 3.2: Terminology used for the Audit (DCCEEW 2023)

Term	Definition
Compliant	‘Compliance’ is achieved when all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.
Potentially non-compliant	A designation of ‘potentially non-compliant’ must be given where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.

<p>Not applicable</p>	<p>A designation of 'not applicable' must be given where the requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example, a condition that applies to an activity that has not yet commenced.</p>
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4. Audit Results

4.1 Summary of Compliance

There are 25 conditions contained within EPBC Decision 2017/7921.

4.1.1 EPBC Decision 2017/7921 Approval

A total of 37 sub-conditions of EPBC Decision 2017/7921 were audited in Table 4.1 below. The following audit results were determined:

- 14 conditions were found to be 'Compliant' including nine conditions 'Compliant (complete)'
- 23 conditions were found to be 'Not applicable';
- No conditions were found to be 'Potentially non-compliant'; and

4.1.2 Construction Environmental Management Plan

A total of 63 conditions are contained within the Construction Environmental Management Plan (Revision D). The following audit results were determined:

- 35 conditions were found to be 'Compliant';
- 24 conditions were found to be 'Not applicable'; and
- Three conditions were found to be 'Potentially non-compliant'.

The potential non-compliances relate to:

- A significant tree identified for retention was lost during construction and the incident was not reported to DCCEEW
- Induction lacking information on impacts and management of weeds and pathogens

4.1.3 Environmental Offset Plan

A total of 50 conditions are contained within the Environmental Offset Plan (Revision 4). The following audit results were determined:

- 35 conditions were found to be 'Compliant';
- 14 conditions were found to be 'Not applicable'; and
- One conditions were found to be 'Potentially non-compliant'.

The potential non-compliance relates to the annual offset report not being provided to DCCEEW after the completion of the sale and transfer of Lot 50 however this has been rectified in 2024.

Table 4.1: Audit Table of Compliance with EPBC Decision 2017/7921

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
Part A – Conditions Specific to the Action						
EPBC 2017/7921 Condition 1		The approval holder must not clear more than 14.5 ha of black cockatoo habitat within the proposed development area shown in Attachment A .				
EPBC 1	Clear less than 14.5 ha of black cockatoo habitat within the development area.	Audit of Spatial Data – Development Area & Indicative Site Layout.	G02_65211 Illyarrie Vegetation Clearing R02_CEMP Rev D June 2019 Figure 5	Aerial Photography Approval Boundary	The area cleared in the reporting period contained 6.43 ha of potential black cockatoo foraging habitat.	Compliant
EPBC 2017/7921 Condition 2		To mitigate the impacts to black cockatoos and Banksia Woodlands of the Swan Coastal Plain ecological community the approval holder must implement the Construction Environmental Management Plan.				
EPBC 2	Implement the Construction Environmental Management Plan.	Audit of the commitments in the Construction Environmental Management Plan.	R01_2023_24 Illyarrie Appendix B R02_CEMP Rev D June 2019	ACR Compliance Audit	The commitments of the CEMP have been subject to a compliance audit. The findings for the reporting period are as follows: <ul style="list-style-type: none"> 35 conditions were found to be 'Compliant'; 24 conditions were found to be 'Not applicable'; and Three conditions were found to be 'Potentially non-compliant'. 	Compliant
EPBC 2017/7921 Condition 3		The approval holder must submit an Offset Plan for the Department's approval to offset the loss of 14.5 ha of black cockatoo habitat. If the Department approves the Offset Plan then the Offset Plan must be implemented.				
EPBC 3A	Submit an offset plan for the loss of 14.5 ha of black cockatoo habitat.	Evidence of Environmental Offset Plan Approval from the Department	R03_Environmental (Rev 4) C08_2017-7921 EOP Approval Letter	Offset Plan Environmental Offset Plan (Rev 4)	The EOP was approved 27/05/2020 (C08).	Compliant
EPBC 3B	Implement the Environmental Offset Plan.	Compliance audit of the commitments in the Environmental Offset Plan.	R01_2023_24 Appendix C R03_Environmental (Rev 4)	Illyarrie ACR Compliance Audit Offset Plan	The commitments of the EOP have been subject to a compliance audit. The findings for the reporting period are as follows: <ul style="list-style-type: none"> 35 conditions were found to be 'Compliant'; 14 conditions were found to be 'Not applicable'; and One condition was found to be 'Potentially non-compliant'. 	Compliant
EPBC 2017/7921 Condition 4		The approval holder must not commence the action unless the Department has approved the Offset Plan in writing, and the offsets described in the Offset Plan are secured in accordance with the measures outlined in the Offset Plan i.e tenure secured as described in Condition 6 (g).				
EPBC 4	Secure the offsets approved in the EOP prior to commencing the action.	Audit of the commitments in the Environmental Offset Plan confirms that the action did not commence until after the Offset Plan was approved, offsets were secured and measures required prior to action commencement were implemented.	E05_Certificate of Title 2229-39 Lot 50 On Deposited Plan 39849 C01_EPBC 2017-7921 Letter of Commencement Acknowledgement	CoT in Conservation Estate DCCEEW	The approved offset was secured 23/07/2020 (E05) prior to the date of commencement 08/05/2023 (C01) of the action.	Compliant

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 2017/7921 Condition 5			<p>The Offset Plan must be consistent with the Department's Environmental Management Plan Guidelines, and must include:</p> <ul style="list-style-type: none"> a. The Offset Plan environmental objectives, details of the projects impacts on black cockatoos to be offset and the EPBC Act approval conditions which the Offset Plan addresses; b. A table of commitments made in the Offset Plan to achieve the objectives, and a guide to where the commitments are detailed in the Offset Plan; c. Reporting and review mechanisms, and documentation standards to demonstrate compliance with the Offset Plan; d. An assessment of risks to achieving the Offset Plan environmental objectives and risk management strategies that will be applied; e. Impact avoidance, mitigation and/or repair measures, and their timing; and f. A monitoring program, which must include: <ul style="list-style-type: none"> i. measurable performance indicators; ii. the timing and frequency of monitoring to detect changes in the performance indicators; iii. trigger values for corrective actions; and iv. proposed corrective actions, if trigger values are reached. 			
EPBC 5A	The Offset Plan must be consistent with the Department's Environmental Management Plan Guidelines	Check that the Offset Plan is prepared in accordance with the Environmental Management Plan Guidelines.	R03_Environmental Offset Plan (Rev 4) R04_Environmental Management Plan Guidelines 2014	Environmental Offset Plan DotE Environmental Management Plan Guidelines (2014)	The EOP is prepared in accordance with the Department's Environmental Management Plan Guidelines. Note An update of the EOP should contain documentation on when there would be provision for review of the EOP.	Compliant
EPBC 5B	Each Offset Plan required under Condition 3 must include items a to f.	Review confirms that the Offset Plan includes items a to f above.	R03_Environmental Offset Plan (Rev 4)	Environmental Offset Plan	The EOF includes: a. The Offset Plan environmental objectives, details of the projects impacts on black cockatoos to be offset and the EPBC Act approval conditions which the Offset Plan addresses (Section 1.1 and Section 1.2). b. A table of commitments made in the Offset Plan to achieve the objectives, and a guide to where the commitments are detailed in the Offset Plan (Section 4.5). c. Reporting and review mechanisms, and documentation standards to demonstrate compliance with the Offset Plan Section 4.6 and Section 5). d. An assessment of risks to achieving the Offset Plan environmental objectives and risk management strategies that will be applied (Section 4.3 and Section 4.7). e. Impact avoidance, mitigation and/or repair measures, and their timing (Section 4.6 and Section 4.7). f. A monitoring program, which must include (Section 4.6 and Section 4.7): i. measurable performance indicators; ii. the timing and frequency of monitoring to detect changes in the performance indicators; iii. trigger values for corrective actions; and iv. proposed corrective actions, if trigger values are reached.	Compliant

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 2017/7921 Condition 6		The Offset Plan must also include: a. A description of each proposed offset site(s) or other type of offset proposed. b. The suitability of the location of any proposed offset site(s). c. Details of the extent to which the proposed offset actions correlate to, and adequately compensate for, the significant residual impacts to black cockatoos. d. The conservation gain to be achieved by the offset i.e. positive management strategies that improve the site or avert future loss, degradation or damage to black cockatoos. e. The time it will take to achieve the proposed conservation gain. f. The level of certainty that the proposed offset will be successful g. The current land tenure of any proposed offset site(s) and the method of securing and . managing the offset site(s) for the life of the impact. h. How the proposed offset(s) are consistent with the <i>Environmental Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy</i> (October 2012).				
EPBC 6	Each Offset Plan required under Condition 3 must include items a to h.	Review confirms that the Offset Plan includes items a to h above.	R03_Environmental Offset Plan (Rev 4)	Environmental Offset Plan	The EOP: a. Describes the Lot 50 Reserve Road Offset Site (Section 2). b. The location of the site to M2091 Loppolo Road conservation estate and the and the suitable attributes of the site (Section 1.4 and Section 2). c. Contains details of the extent to which the proposed offset actions correlate to, and adequately compensate for, the significant residual impacts to black cockatoos (Section 2.2). d. Outlines the conservation gain to be achieved by the offset i.e. positive management strategies that improve the site or avert future loss, degradation or damage to black cockatoos (Section 4.5). e. Includes the time it will take to achieve the proposed conservation gain (Section 4.4). f. Documents the level of certainty that the proposed offset will be successful (Appendix A). g. Specifies the current land tenure of any proposed offset site(s) and the method of securing and . managing the offset site(s) for the life of the impact (Section 1.4 and 1.5). h. Explains how the proposed offset(s) are consistent with the <i>Environmental Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy</i> (October 2012) (Section 3).	Compliant
Part B – Standard Administrative Conditions						
Notification of Date of Commencement of the Action						
EPBC 2017/7921 Condition 7		The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.				
EPBC 7	Notification of commencement within ten (10) business days after the date of commencement of the action.	Review correspondence to the Department to confirm notification within ten (10) business days following the date of commencement of the action.	C01_EPBC 2017-7921 Letter of Commencement Acknowledgement C02_EPBC 2017_7921 Condition 7_ Notification of Action Commencement	DCCEEW receipt of commencement notification Stockland email notification of commencement date	Stockland notified DCCEEW on 10/05/2023 of commencement of the action (within 10 days) (C02). This correspondence was acknowledged by DCCEEW on 24/5/2023 (C01).	Compliant
EPBC 2017/7921 Condition 8		If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.				

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 8	Commencement must be prior to 02/09/2024.	Review of correspondence notifying Minister of commencement date prior to 02/09/2024. Review of approval from Minister for delayed commencement date.	C02_EPBC 2017_7921 Condition 7_ Notification of Action Commencement	Stockland email notification of commencement date Site inspection 16/04/2024	The project commenced on the 08/05/2023 (C02) which was prior to the 02/09/2024.	Compliant
Compliance Records						
EPBC 2017/7921 Condition 9		The approval holder must maintain accurate and complete compliance records .				
EPBC 9	The approval holder must maintain accurate and complete compliance records .	Auditor to determine via records availability during audit.	R01_2023_24 Appendix E	Illyarrie ACR Evidence Register from this Compliance Audit in this ACR	Stockland have maintained an accurate and complete archive of compliance records, including reports, correspondence and spatial data. These records have been used to inform this Compliance Report to assess Stockland's level of compliance against the EPBC Decision 2017/7921 approval conditions. Appendix E (R01) contains an evidence register of the compliance documents for this ACR.	Compliant
EPBC 2017/7921 Condition 10		If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request. Note: Compliance records may be subject to audit by the Department or an independent auditor in accordance with Section 458 of the EPBC Act, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the Department's website or through the general media.				
EPBC 10	If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request.	Review correspondence with the Department. Review data provided to the Department.	Not applicable	Not applicable	The Department has not made a request to the approval holder in the reporting period.	Not applicable
Preparation & Publication of Plans						
EPBC 2017/7921 Condition 11		The approval holder must: a. submit plans electronically to the Department for approval by the Minister; b. publish each plan on the website within 20 business days of the date the plan is approved by the Minister or of the date a revised action management plan is submitted to the Minister, unless otherwise agreed to in writing by the Minister; c. exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public; and d. keep plans published on the website until the end date of this approval.				
EPBC 11A	Submit plans electronically to the Department for approval by the Minister;	Review correspondence to the Department	R02_CEMP Rev D June 2019 R03_Environmental Offset Plan (Rev 4) C08_2017-7921 EOP Approval Letter	EOP Approval Letter	The CEMP (R02) and EOP (R03) were submitted for approval by the Minister.	Compliant
EPBC 11B	Publish each plan on the website within twenty (20) business days of the date the plan is approved by the Minister or of the date a revised action management plan is submitted to the Minister or the Department , unless otherwise agreed to in writing by the Minister ;	Check proponent website Verify publication with the required 20 business days	R01_2023_24 Illyarrie ACR	E31_Website Management Plans Screenshot	The CEMP and EOP are published on the Stockland website at: https://www.stockland.com.au/residential/wa/illyarrie/news-and-events/news/conservation-at-illyarrie	Compliant
EPBC 11C	Exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public;	Review publicly available plans	Refer to EPBC 11B	Not applicable	Refer to EPBC 11B	Not applicable

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 11D	Keep plans published on the website until the end date of this approval.	Check proponent website	Refer to EPBC 11B	Not applicable	Refer to EPBC 11B	Not applicable
EPBC 2017/7921 Condition 12		The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under a plan, is prepared in accordance with the requirements of the plan.				
EPBC 12	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under a plan, is prepared in accordance with the requirements of the plan.	Review correspondence with the Department (including current plans, data, surveys).	R07_63264_Lot50ReserveRoad WeedAssessment_Rev0 R08_64546_Lot50ReserveRoad WeedAssessment Creekline (Rev0) R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0 R05_Arbicultural Impact Report Tree Survey Feb2019	Weed Assessments Significant Tree Assessment	Weed assessments for the Lot 50 offset were prepared in accordance with the Environmental Offset Plan. The significant tree assessment was prepared in accordance with the requirements of the CEMP.	Compliant
Annual Compliance Reporting						
EPBC 2017/7921 Condition 13		The approval holder must prepare a compliance report for each 12 month period following the date of commencement of the action, or as otherwise agreed to in writing by the Minister. The approval holder must: a. publish each compliance report on the website within 60 business days following the relevant 12 month period; b. notify the Department by email that a compliance report has been published on the website within five business days of the date of publication; c. keep all compliance reports publicly available on the website until this approval expires; d. exclude or redact sensitive ecological data from compliance reports published on the website; and e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication. Note: Compliance reports may be published on the Department's website.				
EPBC 13A	Publish each compliance report on the website within sixty (60) business days following the relevant 12-month period;	Check all Annual Compliance Reports are on the proponent's website Review notification correspondence with the Department is within 60 business days of ACR period.	EPBC 2017/7921 Approval	EPBC 2017/7921 Approval	The action commenced on the 08/05/2023. This ACR is the first compliance report and will be published on the website within sixty business days (01/08/2024).	Not applicable
EPBC 13B	Notify the Department by email that a compliance report has been published on the website and provide the web link for the compliance report within five (5) business days of the date of publication;	Review notification correspondence with the Department is within 5 business days of website publication.	Refer to EPBC 13B	Not applicable	Refer to EPBC 13B	Not applicable
EPBC 13C	Keep all compliance reports publicly available on the website until this approval expires;	Check all Annual Compliance Reports are on the proponent's website	Refer to EPBC 13B	Not applicable	Refer to EPBC 13B	Not applicable
EPBC 13D	Exclude or redact sensitive ecological data from compliance reports published on the website	Determine if there is redacted information in the publicly available ACR. Review correspondence with Department regarding redacted information.	Refer to EPBC 13B	Not applicable	Refer to EPBC 13B	Not applicable
EPBC 13E	Where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within five (5) business days of publication.	Review correspondence of full version of ACR sent to Department	Refer to EPBC 13B	Not applicable	Refer to EPBC 13B	Not applicable

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
Reporting Non-compliance						
EPBC 2017/7921 Condition 14	The approval holder must notify the Department in writing of any: incident; non-compliance with the conditions; or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than two business days after becoming aware of the incident or non-compliance. The notification must specify: a. the condition which is or may be in breach; and b. a short description of the incident and/or non-compliance.					
EPBC 14	The approval holder must notify the Department in writing ASAP or within 2 business days of becoming aware of any: incident ; non-compliance with the conditions; or non-compliance with the commitments made in plans .	Review correspondence with Department Review Proponent Incident Register for reportable occurrences Audit determination of compliance with conditions. Audit incidents and non-compliances reported in Annual ACR	M01_Illyarrie Evidence Request Stockland Response Rev 0 Site inspection 16/04/2024	Stockland Management Advice	Stockland are not aware of any incident; non-compliance with the conditions; or non-compliance with the commitments made in plans during the reporting period.	Not applicable
EPBC 2017/7921 Condition 15	The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying: a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; b. the potential impacts of the incident or non-compliance; and c. the method and timing of any remedial action that will be undertaken by the approval holder.					
EPBC 15	The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance.	Review correspondence with Department Review Incident Reports Audit incidents and non-compliances reported in Annual ACR	Refer to EPBC 14	Not applicable	EPBC 14	Not applicable
Independent Audit						
EPBC 2017/7921 Condition 16	The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister.					
EPBC 16	Conduct independent audits as requested by the Minister.	The audit criteria, auditor qualifications and experience to provide the Minister with requirements to undertake an independent audit. Independent audit report.	M01_Illyarrie Evidence Request Stockland Response Rev 0	Stockland Management Advice	No independent audits of compliance were requested by the Minister in the reporting period.	Not applicable
EPBC 2017/7921 Condition 17	For each independent audit, the approval holder must: a. provide the name and qualifications of the independent auditor and the draft audit criteria to the Department; b. only commence the independent audit once the audit criteria have been approved in writing by the Department; and c. submit an audit report to the Department within the timeframe specified in the approved audit criteria.					
EPBC 17A	Provide the name and qualifications of the independent auditor and the draft audit criteria to the Department ;	Review correspondence sending the document providing the name and qualifications of the independent auditor and the draft criteria to the Department.	Refer to EPBC 16	Not applicable	Refer to EPBC 16	Not applicable
EPBC 17B	Only commence the independent audit once the audit criteria have been approved in writing by the Department	Review correspondence providing evidence of receipt of approval from the Department	Refer to EPBC 16	Not applicable	Refer to EPBC 16	Not applicable

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 17C	Submit an audit report to the Department within the timeframe specified in the approved audit criteria.	Review correspondence submitting any audit report by the due date.	Refer to EPBC 16	Not applicable	Refer to EPBC 16	Not applicable
EPBC 2017/7921 Condition 18		The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval.				
EPBC 18	Publish the audit report on the proponent's website within 10 days of receiving the Department's approval of the audit report	Review correspondence of approval from Department of any previous independent audit report Review proponent's website	Refer to EPBC 16	Not applicable	Refer to EPBC 16	Not applicable
Revision of Action Management Plans						
EPBC 2017/7921 Condition 19		The approval holder may, at any time, apply to the Minister for a variation to an action management plan approved by the Minister under condition 2 and condition 3, or as subsequently revised in accordance with these conditions, by submitting an application in accordance with the requirements of section 143A of the EPBC Act. If the Minister approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.				
EPBC 19	The proponent must implement a RAMP approved by the Minister from the date specified.	Review of approval correspondence from the Minister. Audit of the commitments in the approved RAMP.	M01_Illyarrie Evidence Request Stockland Response Rev 0	Stockland Management Advice	The CEMP and the EOP were not revised in the reporting period.	Not applicable
EPBC 2017/7921 Condition 20		The approval holder may choose to revise an action management plan approved by the Minister under condition 2 and condition 3, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the RAMP would not be likely to have a new or increased impact.				
EPBC 20	The proponent can revise a RAMP if the taking of the action in accordance with the RAMP would not be likely to have a new or increased impact.	Review of risk assessment / management of change undertaken for amendment for RAMP.	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
EPBC 2017/7921 Condition 21		If the approval holder makes the choice under condition 20 to revise an action management plan without submitting it for approval, the approval holder must: a. notify the Department in writing that the approved action management plan has been revised and provide the Department with: v. an electronic copy of the RAMP; vi. an electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP; vii. an explanation of the differences between the approved action management plan and the RAMP; viii. the reasons the approval holder considers that taking the action in accordance with the RAMP would not be likely to have a new or increased impact; and ix. written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 business days after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the Department. b. subject to condition 23, implement the RAMP from the RAMP implementation date.				
EPBC 21A	Submit an electronic copy of the RAMP amended under condition 20 to the Department including the aspects v to ix.	Review of correspondence with the Department notifying them of amended RAMP.	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
EPBC 21B	Implement the revised RAMP on the date notified under ix.	Audit of commitments of RAMP.	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
EPBC 2017/7921 Condition 22		The approval holder may revoke its choice to implement a RAMP under condition 20 at any time by giving written notice to the Department. If the approval holder revokes the choice under condition 20, the approval holder must implement the action management plan in effect immediately prior to the revoked RAMP.				

Condition No.	Condition	Verification Method	Evidence	Documents Sighted	Determination	Compliance Finding
EPBC 22	The proponent must implement the RAMP in effect as approved under commitment 19, revised under commitment 21, specified by the Minister under condition 23 or the RAMP in effect immediately prior to the revoked RAMP.	Review correspondence with the Department notifying them of the RAMP being implemented. Audit of commitments of RAMP.	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
EPBC 2017/7921 Condition 23		If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the RAMP would be likely to have a new or increased impact, then: a. condition 20 does not apply, or ceases to apply, in relation to the RAMP; and b. the approval holder must implement the action management plan specified by the Minister in the notice.				
EPBC 23	The proponent is to implement the RAMP specified by the Minister if given notice following a condition 21 submission.	Review of correspondence with the Department notifying them of amended RAMP. Review of Notification from the Department of RAMP to be implemented (Condition 3 notification).	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
EPBC 2017/7921 Condition 24		At the time of giving the notice under condition 23, the Minister may also notify that for a specified period of time, condition 20 does not apply for one or more specified action management plans. Note: conditions 20, 21, 22 and 23 are not intended to limit the operation of section 143A of the EPBC Act which allows the approval holder to submit a revised action management plan, at any time, to the Minister for approval.				
EPBC 24	The Minister can restrict the proponent from making changes to a RAMP without approval.	Review of Department's condition 3 notification.	Refer to EPBC 19	Not applicable	Refer to EPBC 19	Not applicable
Completion of Action						
EPBC 2017/7921 Condition 25		Within thirty (30) days after the completion of the action , the approval holder must notify the Department in writing and provide completion data .				
EPBC 25	Notify the Department within 30 days after the completion of the action.	Review correspondence with the Department	Site inspection 16/04/2024 Project Manager Advice 16/04/2024	Not applicable	As of 07 May 2024, the Action has not been completed.	Not applicable

5. Limitations

Scope of Services

This report ('the report') has been prepared by JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

Reliance on Data

In preparing the report, JBS&G has relied upon data and other information provided by the Client and other individuals and organisations, most of which are referred to in the report ('the data'). Except as otherwise expressly stated in the report, JBS&G has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report ('conclusions') are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. JBS&G has also not attempted to determine whether any material matter has been omitted from the data. JBS&G will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to JBS&G. The making of any assumption does not imply that JBS&G has made any enquiry to verify the correctness of that assumption.

The report is based on conditions encountered and information received at the time of preparation of this report or the time that site investigations were carried out. JBS&G disclaims responsibility for any changes that may have occurred after this time. This report and any legal issues arising from it are governed by and construed in accordance with the law as at the date of this report.

Environmental Conclusions

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted environmental consulting practices. No other warranty, whether express or implied, is made.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

6. References

Department of Climate Change, Energy, the Environment and Water (2023) *Annual Compliance Report Guidelines*, Reporting under the Environment Protection and Biodiversity Conservation Act 1999, Commonwealth of Australia, Canberra.

Appendix A EPBC 2017/7921 Approval



Approval
Development of Lot 1665 Wanneroo Road, Sinagra, WA (EPBC 2017/7921)

This decision is made under sections 130(1) and 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*. Note that section 134(1A) of the **EPBC Act** applies to this approval, which provides in general terms that if the approval holder authorises another person to undertake any part of the action, the approval holder must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such condition.

Details

Person to whom the approval is granted (approval holder)	Stockland Development Pty Limited
ACN or ABN of approval holder	ACN: 000064835
Action	To clear native vegetation for the residential development of Lot 1665 Wanneroo Road, Sinagra, approximately 23 km north of Perth, Western Australia [See EPBC Act referral 2017/7921].

Approval decision

My decision on whether or not to approve the taking of the action for the purposes of the controlling provision for the action is as follows.


Controlling Provisions

Listed Threatened Species and Communities	
Section 18	Approve
Section 18A	Approve

Period for which the approval has effect

This approval has effect until 30 June 2049

Decision-maker

Name and position	Gregory Manning Assistant Secretary of Assessments and Post Approvals Branch Department of the Environment and Energy
Signature	
Date of decision	2/9/ 2019

Conditions of approval

This approval is subject to the conditions under the EPBC Act as set out in ANNEXURE A.

ANNEXURE A – CONDITIONS OF APPROVAL

Part A – Conditions specific to the action

1. The approval holder must not **clear** more than 14.5 ha of **black cockatoo habitat** within the **proposed development area** shown in Attachment A.
2. To mitigate the impacts to **black cockatoos** and **Banksia Woodlands of the Swan Coastal Plain ecological community** the approval holder must implement the **Construction Environmental Management Plan**.
3. The approval holder must submit an Offset Plan for the **Department's** approval to offset the loss of 14.5 ha of **black cockatoo habitat**. If the **Department** approves the Offset Plan then the Offset Plan must be implemented.
4. The approval holder must not **commence the action** unless the **Department** has approved the Offset Plan in writing, and the offsets described in the Offset Plan are secured in accordance with the measures outlined in the Offset Plan i.e tenure secured as described in Condition 6 (g).
5. The Offset Plan must be consistent with the **Department's Environmental Management Plan Guidelines**, and must include:
 - a. The Offset Plan environmental objectives, details of the projects impacts on **black cockatoos** to be offset and the **EPBC Act** approval conditions which the Offset Plan addresses;
 - b. A table of commitments made in the Offset Plan to achieve the objectives, and a guide to where the commitments are detailed in the Offset Plan;
 - c. Reporting and review mechanisms, and documentation standards to demonstrate compliance with the Offset Plan;
 - d. An assessment of risks to achieving the Offset Plan environmental objectives and risk management strategies that will be applied;
 - e. Impact avoidance, mitigation and/or repair measures, and their timing; and
 - f. A monitoring program, which must include:
 - i. measurable performance indicators;
 - ii. the timing and frequency of monitoring to detect changes in the performance indicators;
 - iii. trigger values for corrective actions; and
 - iv. proposed corrective actions, if trigger values are reached.
6. The Offset Plan must also include:
 - a. A description of each proposed **offset site(s)** or other type of offset proposed.
 - b. The suitability of the location of any proposed **offset site(s)**.
 - c. Details of the extent to which the proposed offset actions correlate to, and adequately compensate for, the significant residual impacts to **black cockatoos**.
 - d. The conservation gain to be achieved by the offset i.e. positive management strategies that improve the site or avert future loss, degradation or damage to **black cockatoos**.
 - e. The time it will take to achieve the proposed conservation gain.
 - f. The level of certainty that the proposed offset will be successful.

- g. The current land tenure of any proposed **offset site(s)** and the method of securing and managing the **offset site(s)** for the life of the impact.
- h. How the proposed offset(s) are consistent with the *Environmental Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy* (October 2012).

Part B – Standard administrative conditions

Notification of date of commencement of the action

- 7. The approval holder must notify the **Department** in writing of the date of **commencement of the action** within 10 **business days** after the date of **commencement of the action**.
- 8. If the **commencement of the action** does not occur within 5 years from the date of this approval, then the approval holder must not **commence the action** without the prior written agreement of the **Minister**.

Compliance records

- 9. The approval holder must maintain accurate and complete **compliance records**.
- 10. If the **Department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **Department** within the timeframe specified in the request.

Note: **Compliance records** may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act**, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the **Department's** website or through the general media.

Preparation and publication of plans

- 11. The approval holder must:
 - a. submit **plans** electronically to the **Department** for approval by the **Minister**;
 - b. publish each **plan** on the **website** within 20 **business days** of the date the **plan** is approved by the **Minister** or of the date a revised action management plan is submitted to the **Minister**, unless otherwise agreed to in writing by the **Minister**;
 - c. exclude or redact **sensitive ecological data** from **plans** published on the **website** or provided to a member of the public; and
 - d. keep **plans** published on the **website** until the end date of this approval.
- 12. The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), surveys, maps, and other spatial and metadata required under a **plan** are in accordance with the requirements of the **plan**.

Annual compliance reporting

- 13. The approval holder must prepare a **compliance report** for each 12 month period following the date of **commencement of the action**, or as otherwise agreed to in writing by the **Minister**. The approval holder must:
 - a. publish each **compliance report** on the **website** within 60 **business days** following the relevant 12 month period;
 - b. notify the **Department** by email that a **compliance report** has been published on the **website** within five **business days** of the date of publication;
 - c. keep all **compliance reports** publicly available on the **website** until this approval expires;
 - d. exclude or redact **sensitive ecological data** from **compliance reports** published on the **website**; and

- e. where any **sensitive ecological data** has been excluded from the version published, submit the full **compliance report** to the **Department** within 5 **business days** of publication.

Note: Compliance reports may be published on the **Department's** website.

Reporting non-compliance

14. The approval holder must notify the **Department** in writing of any: **incident**; non-compliance with the conditions; or non-compliance with the commitments made in **plans**. The notification must be given as soon as practicable, and no later than two **business days** after becoming aware of the **incident** or non-compliance. The notification must specify:
 - a. the condition which is or may be in breach; and
 - b. a short description of the **incident** and/or non-compliance.
15. The approval holder must provide to the **Department** the details of any **incident** or non-compliance with the conditions or commitments made in **plans** as soon as practicable and no later than 10 **business days** after becoming aware of the **incident** or non-compliance, specifying:
 - a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future;
 - b. the potential impacts of the **incident** or non-compliance; and
 - c. the method and timing of any remedial action that will be undertaken by the approval holder.

Independent audit

16. The approval holder must ensure that **independent audits** of compliance with the conditions are conducted as requested in writing by the **Minister**.
17. For each **independent audit**, the approval holder must:
 - a. provide the name and qualifications of the independent auditor and the draft audit criteria to the **Department**;
 - b. only commence the **independent audit** once the audit criteria have been approved in writing by the **Department**; and
 - c. submit an audit report to the **Department** within the timeframe specified in the approved audit criteria.
18. The approval holder must publish the audit report on the **website** within 10 **business days** of receiving the **Department's** approval of the audit report and keep the audit report published on the **website** until the end date of this approval.

Revision of action management plans

19. The approval holder may, at any time, apply to the **Minister** for a variation to an action management plan approved by the **Minister** under condition 2 and condition 3, or as subsequently revised in accordance with these conditions, by submitting an application in accordance with the requirements of section 143A of the **EPBC Act**. If the **Minister** approves a revised action management plan (RAMP) then, from the date specified, the approval holder must implement the RAMP in place of the previous action management plan.
20. The approval holder may choose to revise an action management plan approved by the **Minister** under condition 2 and condition 3, or as subsequently revised in accordance with these conditions, without submitting it for approval under section 143A of the **EPBC Act**, if the taking of the action in accordance with the RAMP would not be likely to have a **new or increased impact**.

21. If the approval holder makes the choice under condition 20 to revise an action management plan without submitting it for approval, the approval holder must:
- a. notify the **Department** in writing that the approved action management plan has been revised and provide the **Department** with:
 - v. an electronic copy of the RAMP;
 - vi. an electronic copy of the RAMP marked up with track changes to show the differences between the approved action management plan and the RAMP;
 - vii. an explanation of the differences between the approved action management plan and the RAMP;
 - viii. the reasons the approval holder considers that taking the action in accordance with the RAMP would not be likely to have a **new or increased impact**; and
 - ix. written notice of the date on which the approval holder will implement the RAMP (RAMP implementation date), being at least 20 **business days** after the date of providing notice of the revision of the action management plan, or a date agreed to in writing with the **Department**.
 - b. subject to condition 23, implement the RAMP from the RAMP implementation date.
22. The approval holder may revoke its choice to implement a RAMP under condition 20 at any time by giving written notice to the **Department**. If the approval holder revokes the choice under condition 20, the approval holder must implement the action management plan in effect immediate prior to the revoked RAMP.
23. If the **Minister** gives a notice to the approval holder that the **Minister** is satisfied that the taking of the action in accordance with the RAMP would be likely to have a **new or increased impact**, then:
- a. condition 20 does not apply, or ceases to apply, in relation to the RAMP; and
 - b. the approval holder must implement the action management plan specified by the **Minister** in the notice.
24. At the time of giving the notice under condition 23, the **Minister** may also notify that for a specified period of time, condition 20 does not apply for one or more specified action management plans.

Note: conditions 20, 21, 22 and 23 are not intended to limit the operation of section 143A of the **EPBC Act** which allows the approval holder to submit a revised action management plan, at any time, to the **Minister** for approval.

Completion of the action

25. Within 30 days after the **completion of the action**, the approval holder must notify the **Department** in writing and provide **completion data**.

Part C - Definitions

26. In these conditions, except where contrary intention is expressed, the following definitions are used:

Banksia Woodlands of the Swan Coastal Plain ecological community means the EPBC Act listed threatened ecological community of that name.

Black cockatoos means the EPBC Act listed Carnaby's Black-cockatoo (*Calyptorhynchus latirostris*), (Endangered) and Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksii naso*) (Vulnerable).

Black Cockatoo habitat includes foraging and potential breeding habitat as defined in the *EPBC Act Referral Guidelines for three species of Western Australian black cockatoos: Carnaby's Black-cockatoo (Calyptorhynchus latirostris), (Endangered) Baudin's Black-Cockatoo and Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso) (Vulnerable) (October 2012).*

Business days means a day that is not a Saturday, a Sunday or a public holiday in the state or territory of the action.

Clear or Clearing means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of vegetation (but not including weeds – see the *Australian weeds strategy 2017 to 2027* for further guidance).

Commencement of the action means the first instance of any specified activity associated with the action including clearance of vegetation and **construction** of any infrastructure.

Commencement does not include minor physical disturbance necessary to:

- i. undertake pre-clearance surveys or monitoring programs;
- ii. install signage and /or temporary fencing to prevent unapproved use of the project area;
- iii. protect environmental and property assets from weeds and pests, including **construction** of fencing, and maintenance of existing surface access tracks, if agreed in writing by the **Department**.

Completion data means an environmental report and spatial data information clearly detailing how the conditions of this approval have been met. The **Department's** preferred spatial data format is shapefile.

Completion of the action means all specified activities associated with the action have permanently ceased.

Compliance records means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval in the approval holder's possession or that are within the approval holder's power to obtain lawfully.

Compliance reports means written reports:

- i. providing accurate and complete details of compliance, **incidents**, and non-compliance with the conditions and the **plans**;
- ii. consistent with the **Department's Annual Compliance Report Guidelines (2014)**;
- iii. include a shapefile of any clearance of any **protected matters**, or their habitat, undertaken within the relevant 12 month period; and
- iv. annexing a schedule of all **plans** prepared and in existence in relation to the conditions during the relevant 12 month period.

Construction means the erection of a building or structure that is or is to be fixed to the ground and wholly or partially fabricated on-site; the alteration, maintenance, repair or demolition of any building or structure; preliminary site preparation work which involves breaking of the ground (including pile driving); the laying of pipes and other prefabricated materials in the ground, and any associated excavation work; but excluding the installation of fences and signage.

Construction Environmental Management Plan means the plan titled Lot 1665 Wanneroo Road, Sinagra (EPBC2017/7921) Construction Environmental Management Plan (June 2019).

Department means the Australian Government agency responsible for administering the **EPBC Act**.

EPBC Act means the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*.

Incident means any event which has the potential to, or does, impact on **protected matter(s)**.

Independent audit: means an audit conducted by an independent and **suitably qualified person** as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines* (2015).

Minister means the Australian Government Minister administering the **EPBC Act** including any delegate thereof.

Monitoring data means the data required to be recorded under the conditions of this approval.

New or increased impact means a new or increased environmental impact or risk relating to any **protected matter**, when compared to the likely impact of implementing the action management plan that has been approved by the **Minister** under condition 2 and condition 3, including any subsequent revisions approved by the **Minister**, as outlined in the *Guidance on 'New or Increased Impact' relating to changes to approved management plans under EPBC Act environmental approvals* (2017).

Offsets Assessment Guide – means the guide attached to the *Environmental Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy* (October 2012).

Offset site(s) means an area(s) that contain **black cockatoo habitat** at risk of loss.

Plan(s) means any of the documents required to be prepared, approved by the **Minister**, and/or implemented by the approval holder and published on the **website** in accordance with these conditions (includes action management plans and/or strategies).

Proposed development area means the area designated in Attachment A, as “proposed development area” and marked with a yellow outline.

Protected matter means a matter protected under a controlling provision in Part 3 of the **EPBC Act** for which this approval has effect.

Sensitive ecological data means data as defined in the Australian Government Department of the Environment (2016) *Sensitive Ecological Data – Access and Management Policy V1.0*.

Website means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.

ATTACHMENTS

1. Attachment A

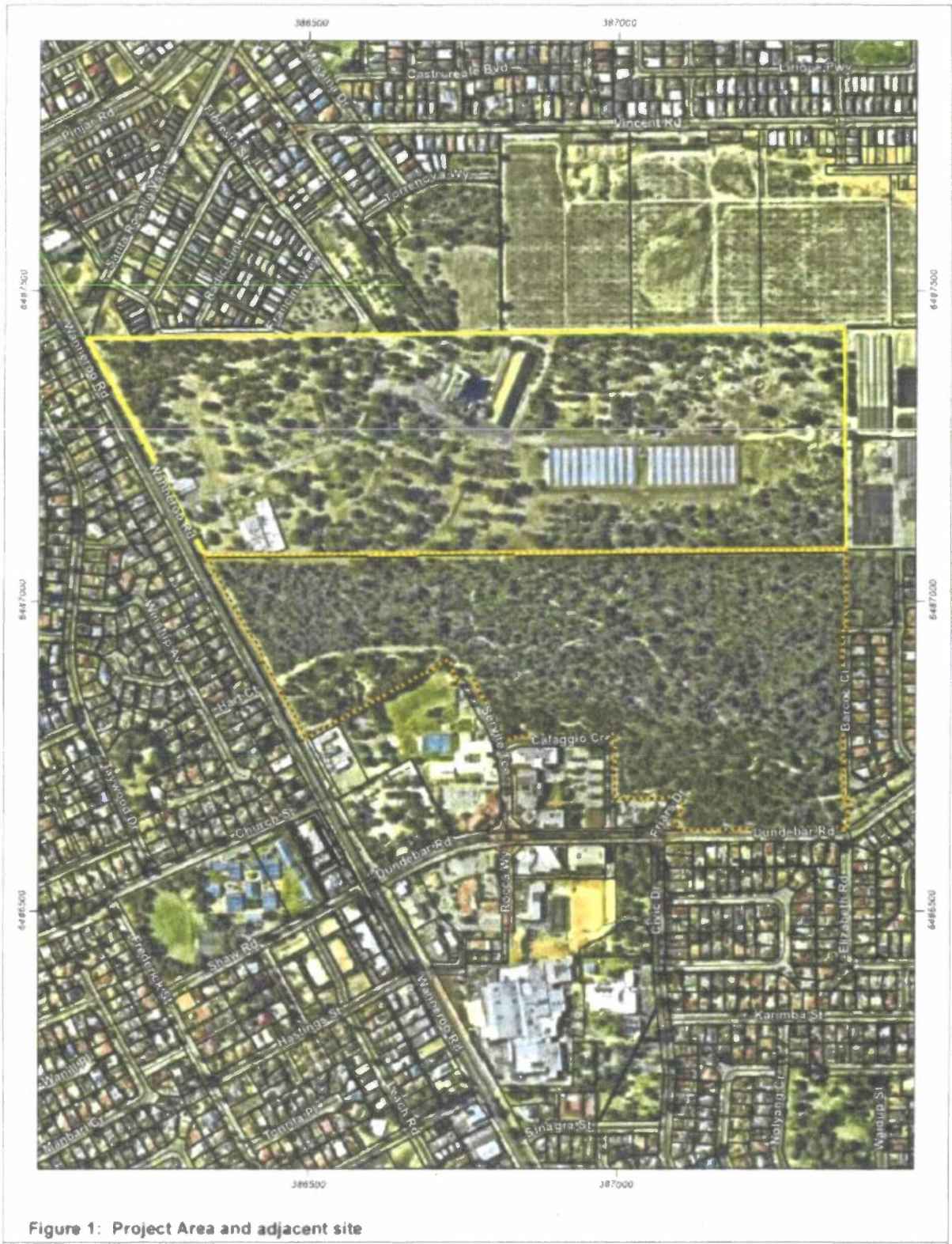


Figure 1: Project Area and adjacent site

Scale: 1:8,000 of A4
 Coordinate System: GDA 1994 MGA Zone 58
 Note that cadastral entries may differ in some areas.
 Date: 15/08/2018
 Author: C. Thacker
 Source: Aerial image, Geoportal, Open (12/2018)

- Legend**
- Adjacent site
 - Proposed development area
 - Existing cadastre



Fig1_1_C:\data\W25\Fat1105101821921_186_000\mml\Map_psd\mml\W25\Fat1105101821921_1007_0000.mxd

Appendix B Construction Environmental Management Plan Compliance Assessment

Table B.1: Construction Environmental Management Plan Audit Table (Rev D June 2019)

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
Executive Summary						
CEMP 01	<p>Management Measures:</p> <ul style="list-style-type: none"> Identification and delineation of clearing and retention areas identification of trees for retention Black Cockatoo management weed and pathogen management hydrological management 	<p>Assessment of CEMP</p> <p>Undertake Site Visit to assess if management measures are being implemented</p>	On Development of CEMP	<p>E18_Illyarrie Constraints plan</p> <p>E19_Significant Tree Plan Enviro 360 20180202</p> <p>R02_CEMP Rev D June 2019</p> <p>R10_UWMP Sinagra (Rev 1)</p>	<p>The proponent has put in place the following management measures:</p> <ul style="list-style-type: none"> Identified and delineated clearing and retention areas in the constraints plan (E18) Identified trees for retention in the significant tree plan (E19) Implemented the Construction Environmental Management Plan (R02) to minimise impacts on black cockatoos and manage weed and pathogens Implemented the UWMP (R10) to manage hydrological aspects of the project. 	Compliant
Section 1.5.3 Potential Impacts						
CEMP 02	<p>A Bushfire Management Plan (BMP) will be development prior to subdivision approval with the objective of reducing the risk to residents from Bushfire. The BMP will ensuring adequate separation exists between the development, retained Black Cockatoo habitat and the adjacent site, to reduce the risk of incidental fire.</p>	<p>Review Bushfire Management Plan</p> <p>Review Bushfire Management Plan Compliance Assessment</p>	Design Phase	E30_Bushfire Management Plan Assessment	<ul style="list-style-type: none"> The project area is not in a bushfire prone area and no lots have a BAL rating of 12.5 or above. A BMP is not required. 	Compliant
Table 3 Protection of Black Cockatoo habitat and individuals						
CEMP 03	<p>Objective: No more than 14.5 ha of potential CBC and FRTBC habitat is cleared from the Project Area.</p> <p>Interim Target: To ensure no more than 14.5 ha of potential CBC and FRTBC habitat is cleared from the Project Area.</p> <p>Performance Indicators: No clearing outside of approved boundary.</p> <p>Completion Criteria: No more than 14.5 ha of potential CBC and FRTBC habitat is cleared from the Project Area at the completion of clearing.</p>	<p>Audit of Spatial Data – Development Area & Indicative Site Layout.</p>	Completion Criteria	<p>G02_65211 Illyarrie Vegetation Clearing</p> <p>R02_CEMP Rev D June 2019 Figure 5</p>	<p>The area cleared in the reporting period contained 6.43 ha of potential black cockatoo foraging habitat.</p>	Compliant
CEMP 04	<p>Objective: Application of the CoW LLP 4.8 Tree preservation.</p> <p>Interim Target: Identification and retention of significant trees (in accordance with the definition under the policy) within POS and road reserves. Consideration of existing site topography in preliminary earthworks, servicing and drainage considerations, indicative street block layout.</p> <p>Performance indicators: Significant tree and viability assessment completed for the Project Area. No unapproved clearing of significant trees identified for retention.</p> <p>Completion Criteria: Viable significant trees retained within the Project Area.</p>	<p>Audit of Spatial Data – Development Area & Indicative Site Layout.</p> <p>Interview with Project Team to discuss the retention of significant trees</p> <p>Review evidence of significant tree and viability assessment</p>	Completion Criteria	R05_Arbicultural Impact Report Tree Survey Feb2019	<p>The significant tree assessment report (R05) investigates the status of significant trees located within POS and road reserve areas. The report identifies preliminary tree retention and management considerations required to achieve the ongoing success of the trees within the finished POS and road reserve areas.</p>	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 05	<p>Objective: Manage weeds, pests and plant pathogens within the Project Area.</p> <p>Interim Target: Minimal damage to retained or landscaped vegetation within the Project Area (specifically POS areas, road reserves and along the boundary to the adjacent Banksia TEC) by weeds and plant pathogens.</p> <p>Performance Indicators: No, or minor evidence of vegetation decline within the Project Area (POS areas, road reserves and along the boundary to the adjacent Banksia TEC) because of weeds and plant pathogens.</p> <p>Completion Criteria: Two years from the commencement of maintenance, the Project Area is free of significant weed species and plant pathogens.</p>	<p>Undertake Site Visit to observe weeds and symptoms of pathogens</p> <p>Review Vegetation Monitoring Reports</p> <p>Review Incident Records</p>	Completion Criteria	Site inspection 16/04/2024	Retained vegetation is partitioned from construction works. Monitoring to commence once maintenance commences. No incidents involving vegetation decline due to weeds or plant pathogens.	Compliant
CEMP 06	<p>Objective: Minimise direct impacts to CBC and FRTBC individuals.</p> <p>Interim Target: No clearing of potential breeding trees that have evidence of active CBC or FRTBC breeding from July to November.</p> <p>Interim Target: Vehicle speeds restricted to a maximum of 20km/hr during clearing and construction.</p> <p>Performance Indicators: No death or injury to CBC or FRTBC caused by habitat clearing or vehicle collisions during or post construction.</p> <p>Completion Criteria: Clearing records.</p> <p>Completion Criteria: No environmental incidents relating to collisions with CBC or FRTBC.</p>	<p>Review Fauna Pre-Clearance Reports</p> <p>Review Induction and Induction Register</p> <p>Assess Signage</p> <p>Undertake Site Visit to observe vehicle movements</p> <p>Review Incident Records</p> <p>Review Clearing Records</p> <p>Audit of Spatial Data – Development Area & Indicative Site Layout.</p>	Completion Criteria	<p>R11_Fauna Pre-clearance Survey_V1</p> <p>Site inspection 16/04/2024</p> <p>M01_Illyarrie Evidence Request Stockland Response Rev 0</p> <p>E20_Site Induction Presentation (Rev 3)</p>	<p>Clearing was undertaken in May 2023 outside the breeding season (R11).</p> <p>Induction states that vehicle speeds are to be restricted to a maximum of 10km/hr during clearing and construction.</p> <p>No death or injury to CBC or FRTBC was reported in the reporting period (M01).</p>	Compliant
CEMP 07	<p>Objective: No impacts to retained trees because of hydrological changes.</p> <p>Interim Target: Development design and engineering to ensure no hydrological impacts to retained trees.</p> <p>Performance Indicators: No evidence of tree decline within the Project Area because of hydrological changes associated with the Project.</p> <p>Completion Criteria: No loss of retained trees within the Project Area because of hydrological changes.</p>	<p>Undertake Site Visit to observe hydrological regime</p> <p>Review Vegetation Monitoring Reports</p>	Completion Criteria	Site inspection 16/04/2024	No evidence of tree decline in the project area.	Compliant

Table 3 Protection of adjacent Banksia Woodland TEC and Black Cockatoo habitat

CEMP 08	<p>Objective: No rubbish dumping or rubbish drift onto the adjacent site from the Project Area</p> <p>Interim Target: Removal of any rubbish drift along the boundary before it enters the adjacent Banksia Woodland TEC.</p> <p>Interim Target: Removal of any rubbish that has been dumped or drifted into the adjacent Banksia Woodland TEC from the Project Area.</p> <p>Performance Indicators: No Project associated rubbish observed within the adjacent Banksia Woodland TEC.</p> <p>Completion Criteria: At the completion of construction, the adjacent Banksia Woodland TEC is free of rubbish associated with the Project Area.</p>	<p>Undertake Site Visit to determine presence of waste</p> <p>Review Site Inspection Records</p>	Completion Criteria	Site inspection 16/04/2024	There was no evidence of rubbish dumping or rubbish drift into the adjacent Banksia Woodland TEC.	Compliant
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Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 09	<p>Objective: No weeds or pathogens spread from the Project area to the adjacent Banksia Woodland TEC.</p> <p>Interim Target: No damage to adjacent Banksia Woodland TEC by weeds or plant pathogens associated with the Project Area.</p> <p>Performance Indicators: No evidence of vegetation decline in the adjacent Banksia Woodland TEC because of pathogens from the Project Area.</p> <p>Completion Criteria: At the completion of construction, the adjacent Banksia TEC is free of significant^ weeds and pathogens spread from the Project Area.</p>	<p>Undertake Site Visit to observe weeds and symptoms of pathogens</p> <p>Review Vegetation Monitoring Reports</p>	Completion Criteria	Not applicable	This commitment is applicable on completion.	Not applicable
CEMP 10	<p>Objective: No hydrological degradation because of the development of the Project Area.</p> <p>Interim Target: Development design and engineering to ensure no hydrological impacts to the adjacent site.</p> <p>Performance Indicators: No evidence of vegetation decline in the adjacent Banksia Woodland TEC because of hydrological changes associated with the Project Area.</p> <p>Completion Criteria: At the completion of construction there is no impact to the adjacent Banksia Woodland TEC because of hydrological changes associated with the Project Area.</p>	<p>Undertake Site Visit to observe hydrological regime</p> <p>Review Vegetation Monitoring Reports</p>	Completion Criteria	Not applicable	This commitment is applicable on completion.	Not applicable

Table 7 Management measures for delineating and clearing and retention areas

CEMP 11	<p>In determining the POS areas within the Project Area, assess the applicability of LLP 4.3 in the formulation of Nature POS in accordance with Schedule 5 as presented in Appendix 3.</p> <p>If the LLP4.3 Nature POS cannot be applied then the following criteria will be used (Adapted from Del Marco, 2004) to determine POS area(s):</p> <ul style="list-style-type: none"> • size • shape • perimeter to area ratio • vegetation condition • connectivity with remnant vegetation adjacent to the Project Area. 	Interview with Project Team to discuss Nature POS design	Design phase (Subdivision)- prior to clearing.	Not applicable	No POS had been constructed during the reporting period.	Not applicable
CEMP 12	Install temporary fencing or flagging to delineate areas / trees for retention, including root zone protection areas.	Undertake Site Visit to observe protection of trees for retention	Prior to the commencement of work on site, where site works are adjacent (up to 50 m) to retained areas (once defined).	Site inspection 16/04/2024	Temporary fencing with signage was erected around the trees for retention on the south and north west of the project area.	Compliant
CEMP 13	Provide GPS co-ordinates of areas approved to be cleared and retained to the contractor to ensure no unapproved clearing is undertaken.	Review email evidence proponent has provided GPS coordinates	During construction.	G01_Clearing Diagram 6373-00-101_1	Drawings were provided to Georgiou containing the locations of trees to be retained and trees to be cleared prior to clearing activities.	Compliant
CEMP 14	Install appropriate temporary signage to restrict unauthorised access to retention areas (once defined).	Undertake Site Visit to observe signage	Pre and during construction.	Refer to CEMP 12	Refer to CEMP 12	Compliant
CEMP 15	Install and maintain appropriate separation between the retention area boundaries and development area interface to control access (for example fencing, bollards, footpaths, garden beds).	Undertake Site Visit to observe separation methods	Post-construction.	Refer to CEMP 12	Refer to CEMP 12	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
Table 8 Management measures for tree retention						
CEMP 16	<p>Significant tree and viability assessment completed for the Project Area by an Arborist and assessed against engineering requirements to determine which trees can be retained within POS area(s) and road reserves. As per AS 4970-2009 Guidelines during this assessment consideration must be given to:</p> <ul style="list-style-type: none"> the condition of the trees proximity to buildings location of services roads level changes building operation spaces long term management. 	Review evidence of significant tree and viability assessment	Prior to clearing each stage	Refer to CEMP 04	Refer to CEMP 04	Compliant
CEMP 17	<p>Conduct site inductions to inform personnel of:</p> <ul style="list-style-type: none"> trees identified for retention procedures to minimise impacts to retained trees e.g. minimise compaction and disturbance around retained vegetation, employing directional drilling or manually excavated trenches (includes pneumatic and hydraulic tools) where possible around retained vegetation to minimise impact to roots tree protection practices outlined the AS 4970-2009 Guidelines for the protection of trees on development sites. 	Review Induction and Induction Register	Prior to commencing work on-site	E20_Site Induction Presentation (Rev 3)	The Georgiou site induction outlines the specific requirements around protected trees including how to identify and how to minimise impacts.	Compliant
CEMP 18	Provide map and GPS co-ordinates of trees to be retained to the contractor to ensure no unapproved clearing is undertaken.	Review email evidence proponent has provided Map and GPS coordinates	During construction	Refer to CEMP 13	Refer to CEMP 13	Compliant
CEMP 19	Clearly mark trees identified for retention with flagging tape and numbered tags.	<p>Review evidence of significant tree and viability assessment</p> <p>Undertake Site Visit to observe clearly marked retention trees</p>	During construction	<p>Site inspection 16/04/2024</p> <p>E21_Trees Marked for Retention</p>	Trees identified for retention were marked with flagging (E21).	Compliant
CEMP 20	If required install protective measures around the root protection zones of any potential breeding trees that are identified for retention, to manage the risk of intrusive, degrading activities such as unauthorised or accidental or clearing, and compaction.	<p>Review evidence of significant tree and viability assessment</p> <p>Undertake Site Visit to observe protective measures around breeding trees</p>	During construction	<p>Site inspection 16/04/2024</p> <p>R02_CEMP Rev D June 2019</p> <p>G01_Clearing Diagram 6373-00-101_1</p> <p>E21_Trees Marked for Retention</p>	Identified breeding trees (R02) for retention (G01) had protective measures installed (E21).	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
Table 9 Management measures for Black Cockatoos						
CEMP 21	<p>If clearing during CBC and FRTBC breeding season (including egg laying period [July to November] and fledgling period [up to late February]) (Birdlife Australia 2018) inspect potential breeding habitat trees within 7 days prior to the commencement of clearing for each stage of development.</p> <p>If a black cockatoo is detected using a hollow in a tree or trees the following will occur:</p> <ul style="list-style-type: none"> clearly identify the tree or trees with flagging/fencing demarcate (with flagging or fencing) a 10m buffer zone around the tree or trees- no earth works/clearing occur within the buffer zone until the hollow is no longer being used qualified fauna specialist will determine the hollow activates and confirm that the tree or trees hollows are vacant, prior to earthworks/clearing commencing within the buffer zone. 	<p>Review Fauna Pre-Clearance Reports</p> <p>Undertake Site Visit to observe protective measures around breeding trees</p>	July to November, prior to clearing and/or during construction of each phase	Not applicable	Clearing was undertaken in May 2023, outside the CBC and FRTBC breeding season.	Not applicable
CEMP 22	Prohibit the feeding of fauna.	<p>Review Induction and Induction Register</p> <p>Interview with Project Team to discuss the prohibition of feeding fauna</p>	During construction	M01_Illyarrie Evidence Request Stockland Response Rev 0	There were no reported incidents of fauna being fed on the project site.	Not applicable
CEMP 23	Enforce a maximum speed limit of 20km/hr to minimise collisions with CBC and FRTBC.	<p>Review Induction and Induction Register</p> <p>Review Incident Records</p> <p>Interview with Project Team to discuss adherence with required speed limit</p>	During construction	E20_Site Induction Presentation (Rev 3)	A speed limit of 10km/h is in place in vegetated areas.	Compliant
CEMP 24	Minimise the planting of CBC and FRTBC primary feeding species in areas that are expected to experience high volumes of traffic and/or have a maximum speed limit greater than 50km/hr.	<p>Review Vegetation Planting Records</p>	During landscaping	Not applicable	No planting has been undertaken to date.	Not applicable
CEMP 25	Contact the Department of Biodiversity, Conservation and Attractions (DBCA) Wildcare Helpline 24 hour emergency hotline on (08) 9474 9055 if sick or injured animals are encountered.	<p>Review Incident Records</p> <p>Interview with Project Team to discuss any instances of sick or injured wildlife</p>	During construction	Not applicable	There were no reported incidents of sick or injured wildlife in the reporting period.	Not applicable
Table 10 Management measures for weed and pathogen management						
CEMP 26	Conduct a baseline weed survey within the Project Area (specifically POS areas, road reserves and along the boundary to the adjacent Banksia TEC) in accordance with DBCA standard operating procedures (DEC 2011) to establish baseline information.	Review Baseline Weed Survey	Prior to clearing within the Project Area	R02_CEMP Rev D June 2019 R13_Due Dilligence Report Final	The CEMP (R02) contains vegetation condition mapping over the project area including the location of declared weed <i>Opuntia stricta</i> based on a Level 2 Flora and Vegetation Survey undertaken as reported in the due diligence report (R13).	Compliant
CEMP 27	Monitor weeds in accordance with Section 5.1.	Review Annual Weed Monitoring Report	During construction	R02_CEMP Rev D June 2019	First weed monitoring to be conducted in Spring 2024.	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 28	If necessary, based on monitoring, develop a weed control program and appoint an experienced contractor to manage weeds within the Project Area.	Review Annual Weed Monitoring Report Review records of weed control program Incorporate weed observations in Site Visit	During construction and post-construction for a period of three years up until handover of POS and road verges to CoW Frequency will depend on the type of weeds present based on the advice of a weed control expert	Refer to CEMP 28	Refer to CEMP 28	Not applicable
CEMP 29	During weed control the following practices will be implemented: <ul style="list-style-type: none"> use of biodegradable marking dye during all spot spraying tasks installation of safety warning signage around the perimeter of the area to be controlled including information on the type of weed control and planned timing (signage shall be in place prior to application, and removed once area has dried) undertaking spraying only under calm weather as identified in the herbicide manufacturers recommendations. 	Review weed control contractor standard operating procedures	During construction and post-construction for a period of two years up until handover of POS and road verges to CoW	Refer to CEMP 29	Refer to CEMP 29	Not applicable
CEMP 30	All plants and other materials used in landscaping will be free of soil that may contain dieback or weeds (i.e. plants supplied by a NIASA accredited nursery).	Review hygiene certificates for imported materials Review nursery NIASA accreditation	During landscaping	Not applicable	No landscaping has been undertaken to date.	Not applicable
CEMP 31	All construction personnel will be inducted in relation to weed and dieback risk, potential impacts and management.	Review Induction and Induction Register	During construction	E22_Giorgiou Online Induction E20_Site Induction Presentation (Rev 3)	The Giorgiou Online Induction and Illyarrie Site Induction for the reporting period both refer to the risk of Weeds and Pathogens but do not cover potential impacts and management.	Potentially non-compliant
Section 4.6 Hydrological management						
CEMP 32	Stormwater will be managed through an Urban Water Management Plan (UWMP) in accordance with the Department of Water and Environmental regulation (DWER) decision process for Stormwater Management in Western Australia.	Confirm a DWER approved Urban Water Management Plan is in place.	Pre-construction	R10_UWMP Sinagra (Rev 1) C09_UWMP City approval letter 16.05.23	The UWMP (R10) was approved by the City of Wanneroo on 16/05/2023 (C09).	Compliant
CEMP 33	All storm water will be managed on site and there will be no discharge from the Project Area into the adjacent Banksia Woodland TEC.	Undertake Site Visit to determine if all stormwater is being managed on site and there is no discharge into the TEC	Ongoing	Site inspection 16/04/2024	There was no drainage into the Banksia Woodland TEC during site visit to the project location. The site has been constructed to slope away from the Banksia Woodland TEC.	Compliant
CEMP 34	Consumption of potable water will be minimised by providing waterwise landscaping packages to residential lots and encouraging residents to install waterwise appliances within houses.	Review evidence landscaping packages are being provided to residential lots Determine how residents are encouraged to install waterwise appliances	Ongoing	M01_Illyarrie Evidence Request Stockland Response Rev 0	There will not be any residents at Illyarrie until February 2025. The landscaper will be completing landscaping of the front of lots and will provide information to landowners.	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
Section 11 Management measures for hydrological management						
CEMP 35	Development design and engineering to: <ul style="list-style-type: none"> ensure that gradients are managed to ensure that benching or batters will not be positioned where they will negatively impact any retained trees within the Project Area, or the adjacent site stormwater is not directed toward retained trees or the adjacent site drainage basins will not be positioned where they will negatively impact any retained trees, or the adjacent site. 	Undertake Site Visit to observe that hydrological design is not impacting /potentially impacting on retained trees	Design phase	Site inspection 16/04/2024	Stormwater runoff from the development is graded away from retained trees.	Compliant
CEMP 36	Surface water management undertaken consistent with the requirements of the Department of Water and Environmental Regulation (DWER), and in conformance with the water sensitive urban design requirements of Better Urban Water Management (WAPC 2008).	Confirm a DWER approved Urban Water Management Plan is in place.	Design phase	R10_UWMP Sinagra (Rev 1) C09_UWMP City approval letter 16.05.23	The UWMP (R10) was approved by the City of Wanneroo on 16/05/2023 (C09).	Compliant
CEMP 37	Water to be infiltrated within the Project Area via vegetated basins and / or swales, to perform a biofiltration function and reduce the risk of hydrological impacts to retained trees or the adjacent site and reduce the risk of mobilisation of dieback into the adjacent areas.	Undertake Site Visit to confirm water is being infiltrated	Design phase	Not applicable	Stormwater was being directed into the proposed location of the POS during the reporting period. The POS (proposed infiltration basin) will be constructed in 2024.	Not applicable
Table 12 Management measures for rubbish drift and dumping from within the Project Area						
CEMP 38	Conduct site inductions to inform personnel that all rubbish is to be removed from site and disposed of appropriately.	Review Induction and Induction Register	Prior to construction	E22_Giorgiou Online Induction	The Giorgiou Online Induction outlines how personnel are to put rubbish in bins and recycle into plastic, organic, glass, e-waste, paper and metal.	Compliant
CEMP 39	Monitor rubbish in accordance with Section 5.1.	Review site inspection record	During clearing and construction	E06_20230521 DHI-ENV_2778 Environmental Inspection E07_20240327 DHI-ENV_3503 Environmental Inspection Site inspection 16/04/2024	Rubbish was being monitored during WHSE inspections (E06, E07). No rubbish was evident during site inspection on 16/04/2024.	Compliant
CEMP 40	Remove of any rubbish drift along the boundary before it enters the adjacent Banksia Woodland TEC.	Undertake Site Visit to determine presence of waste	During clearing and construction	Site inspection 16/04/2024 M01_Illyarrie Evidence Request Stockland Response Rev 0	No rubbish associated with the project was observed along the boundary fence adjacent to the Banksia Woodland TEC during Site inspection 16/04/2024 or reported during the reporting period (M01).	Compliant
CEMP 41	Removal of any rubbish that has been dumped or drifted into the adjacent Banksia Woodland TEC from the Project Area.	Undertake Site Visit to determine presence of waste	Design phase	Site inspection 16/04/2024 M01_Illyarrie Evidence Request Stockland Response Rev 0	No rubbish associated with the project was observed along the boundary fence and / or within the adjacent Banksia Woodland TEC during Site inspection 16/04/2024 or reported during the reporting period (M01).	Compliant
Table 13 Monitoring Schedule: Assessment of Clearing Boundaries						
CEMP 42	No clearing outside approved boundary Monitoring Parameter: Site inspection to assess the condition of fencing used to delineate areas of retention, and barriers used to block unwanted access Location: Around retention areas (once defined) near clearing boundaries	Review site inspection record to confirm assessment of fencing undertaken	Fortnightly for the first 6 months following commencement of clearing and then quarterly thereafter during construction	E06_20230521 DHI-ENV_2778 Environmental Inspection E07_20240327 DHI-ENV_3503 Environmental Inspection E23_Retention Tree Loss Incident INC_11257	Inspections were undertaken to assess the condition of fencing used to delineate areas of retention. There was one incident where a breakdown in the zone of protection was identified.	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 43	No clearing outside approved boundary Monitoring Parameter: Approved clearing boundaries cross referenced against site inspections and/or current aerial photography Location: Clearing boundaries	Review fortnightly (or alternate interval) site inspection documenting cleared area Review record cross referencing cleared area against approved clearing boundary	Fortnightly during clearing, or as otherwise required by regulatory authorities as part of construction site inspections	G02_65211 Illyarrie Vegetation Clearing	Analysis has determined that there has been no clearing outside the approved boundary in the reporting period via assessment of clearing undertaken from aerial photography with reference to approved boundary.	Compliant
CEMP 44	No clearing outside approved boundary Monitoring Parameter: Total area cleared not to exceed a total of 14.5 ha of potential black cockatoo foraging habitat. Location: Project Area	Audit of Spatial Data – Development Area & Indicative Site Layout.	Annually during construction after clearing has commenced	G02_65211 Illyarrie Vegetation Clearing R02_CEMP Rev D June 2019 Figure 5	The area cleared in the reporting period contained 6.43 ha of potential black cockatoo foraging habitat.	Compliant

Table 13 Monitoring Schedule: Assessment of Tree Retention

CEMP 45	Significant tree and viability assessment completed for the Project Area Monitoring Parameter: Completed significant tree and viability assessment report Location: Project Area	Review evidence of significant tree and viability assessment	Prior to clearing of each stage	Refer to CEMP 04	Refer to CEMP 04	Compliant
CEMP 46	No unapproved of clearing significant trees identified for retention Monitoring Parameter: Site inspection to record status of retained trees (i.e. retained or cleared) Location: Project Area	Review retained tree status site inspection report two weeks following clearing within each stage	With two weeks of completion of clearing within each stage	E23_Retention Tree Loss Incident INC_11257	One significant tree identified for retention was mistakenly cleared due to a breakdown in the zone of protection between walk through and clearing.	Potentially non-compliant

Table 13 Monitoring Schedule: Assessment of impacts to Black Cockatoos

CEMP 47	No clearing of potential breeding trees that have evidence of active Black Cockatoo breeding Monitoring Parameter: Inspect all potential Black cockatoo breeding habitat tree(s) with suitable hollows; Location: Clearing areas	Review Fauna Pre-Clearance Reports for each stage	Within 7 days prior to earth works/clearing commencing in each stage	Not applicable	Clearing was undertaken in May 2023 outside of the breeding season.	Not applicable
CEMP 48	No clearing of potential breeding trees that have evidence of active Black Cockatoo breeding Monitoring Parameter: Record of fauna expert appointed to inspect clearing area for Black Cockatoo activity and associated report/memo Location: Clearing areas	Review Fauna Pre-Clearance Reports for each stage where clearing between July and November	Prior to clearing in July to November	Refer to CEMP 47	Refer to CEMP 47	Not applicable
CEMP 49	No clearing of potential breeding trees that have evidence of active Black Cockatoo breeding Monitoring Parameter: Ensure that 10m buffer zones around tree or trees are maintained Location: Clearing areas	Review evidence of significant tree and viability assessment Undertake Site Visit to observe 10m buffer zones Interview with Project Team	As required until hollow is vacant.	Refer to CEMP 47	Refer to CEMP 47	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 50	No death or injury to Black Cockatoo caused by vehicle collisions Monitoring Parameter: Evidence of vehicle speeds restricted to a maximum of 20km/hr (i.e. inductions and signage) Location: Project Area	Review Induction and Induction Register Undertake Site Visit to assess signage Review Incident Records Interview with Project Team to discuss adherence to speed restrictions	During clearing and construction	E20_Site Induction Presentation (Rev 3)	The induction presents the requirement for a speed limit of 10km/h in vegetated areas. This is signposted at the site entry.	Compliant
CEMP 51	No death or injury to Black Cockatoo caused by vehicle collisions Monitoring Parameter: Reports of fauna collisions Location: Project Area	Review Incident Records Review Induction and Induction Register Interview with Project Team to discuss fauna collisions	Opportunistically during clearing and construction	M01_Illyarrie Evidence Request Stockland Response Rev 0	There were no reports of fauna collisions in the reporting period.	Not applicable

Table 13 Monitoring Schedule: Weed and Pathogen Assessment

CEMP 52	No increase in weed distribution of species. No evidence of plant pathogens within the Project Area Monitoring Parameter: Site walkover by a qualified consultant (Botanist/Ecologist) to assess distribution, and abundance of weed species, and evidence of decline in tree health Location: POS areas, road reserves and along the boundary to the adjacent Banksia TEC, within the Project Area	Review Annual Weed Monitoring Report	Annually in spring following commencement of construction until handover to CoW	Not applicable	First weed and vegetation decline (pathogen) monitoring to be conducted in Spring 2024.	Not applicable
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Table 13 Monitoring Schedule: Assessment of Rubbish Drift / Dumping

CEMP 53	No Project associated rubbish observed within the adjacent Banksia Woodland TEC Monitoring Parameter: Site inspection to assess project associated rubbish drift / dumping in the adjacent Banksia Woodland or along the boundary Location: Within the Project Area, along the boundary fence between the Project Area and the adjacent Banksia Woodland TEC	Review fortnightly site inspection record Interview with Project Team to discuss any potential waste issues	Fortnightly during clearing and construction	M01_Illyarrie Evidence Request Stockland Response Rev 0 Site inspection 16/04/2024	No site inspection records were provided by the approval holder. The Project team has not had any reports of waste issues during the reporting period (M01).	Compliant
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Section 5.2 Data Handling and Management

CEMP 54	Data will be provided to the Stockland Project Manager upon contractor submission of monitoring reports and will be reported to the DEE as part of the EPBC annual compliance report	Review previous ACR Interview with Project Team to discuss the provision of monitoring data from contractors	Annually	R01_2023_24 Illyarrie ACR Appendix D	The Arboricultural Impact Report Tree Survey (Feb 2019) has been included as Appendix D.	Compliant
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Table 14 Contingency Measures

CEMP 55	If there is unauthorised clearing beyond approved boundaries, then the Project Manager will implement the following contingency actions: <ul style="list-style-type: none"> Determine extent of additional clearing. Report additional clearing to DEE. Undertake required remedial measures as determined by DEE. 	Review Incident Records Review report sent to DCCEEW and follow up correspondence confirming implementation of remedial measures	Contingency Action	Not applicable	There was no unauthorised clearing beyond approved boundaries in the reporting period.	Not applicable
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Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 56	<p>If a significant tree that was identified for retention is cleared, then the Project Manager /Environmental Consultant will implement the following contingency actions:</p> <ul style="list-style-type: none"> Determine extent of tree removal. Report additional clearing to DEE. Undertake required remedial measures as determined by DEE. 	<p>Review Incident Records</p> <p>Review report sent to DCCEEW and follow up correspondence confirming implementation of remedial measures</p>	Contingency Action	E23_Retention Tree Loss Incident INC_11257	<p>A significant tree that was identified for retention was cleared 10/05/2023. The tree had been completely removed when the incident was identified and reported on 15/5/2023. The incident was investigated, and remedial actions were implemented to prevent reoccurrence.</p> <p>The incident was not reported to DCCEEW.</p>	Potentially non-compliant
CEMP 57	<p>If active Black Cockatoo nesting is observed in one of the stages proposed to be cleared, then the Fauna Specialist and Environmental Consultant will implement the following contingency actions::</p> <ul style="list-style-type: none"> Mark the tree(s) with flagging tape. Report nesting tree to Project Manager. Install temporary bunting and signage to provide a 10m buffer zone around the nesting tree(s). Retain the nesting tree(s) during the breeding season, including egg laying period (July to November) and fledgling period (up to late February) (Birdlife Australia 2018) Re-inspect the nesting tree(s) at the end of the breeding season to confirm all birds have vacated the nest. Report the status of the nesting tree(s) to the project manager and suitability for clearing. 	<p>Review Fauna Pre-Clearance Reports for each stage including contingency measures taken</p> <p>Undertake Site Visit to observe protective measures around breeding trees</p> <p>Interview with Project Team to discuss requirement for black cockatoo nesting contingency actions</p>	Contingency Action	Not applicable	Clearing was undertaken in May 2023 outside of the breeding season.	Not applicable
CEMP 58	<p>If there is a vehicle collision with a black cockatoo, then the Construction Contractor will implement the following contingency actions:</p> <ul style="list-style-type: none"> Investigate cause. Undertake intervention or remediation works (e.g. further reduce speed limit, educate workforce). Monitor success. Report to Project Manager. 	<p>Review Incident Records</p> <p>Interview with Project Team to discuss fauna collisions</p>	Contingency Action	Refer to CEMP 51	Refer to CEMP 51	Not applicable
CEMP 59	<p>If observations indicate the presence of dieback within the Project Area, the Dieback Consultant and Project Manager will implement the following contingency actions:</p> <ul style="list-style-type: none"> Identify potential sources of dieback spread and determine likely cause. Map dieback affected areas. Undertake dieback control -control methods may include phosphite treatment to minimise the spread of dieback. Review success of dieback control methods and continue monitoring. Review and update management plan accordingly. 	<p>Review Incident Records</p> <p>Review Dieback Occurrence Report</p> <p>Review revised Dieback Management Plan</p> <p>Interview with Project Team to discuss dieback issues / management</p>	Contingency Action	Refer to CEMP 52	Refer to CEMP 52	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
CEMP 60	<p>If observation shows the introduction of new significant weed species to the Project Area, then the Environmental Consultant will implement the following contingency actions:</p> <ul style="list-style-type: none"> Map the distribution of the newly introduced significant weed species. Identify activities that may have potentially introduced the significant weed species. Plan and implement a significant weed control program (may involve seeking advice from relevant authorities). Apply hygiene control and education measures. 	<p>Review Incident Records</p> <p>Review Annual Weed Monitoring Report</p> <p>Interview with Project Team to discuss weed issues / management</p>	Contingency Action	Refer to CEMP 52	Refer to CEMP 52	Not applicable
CEMP 61	<p>If observation shows an increase in distribution or abundance of a significant weed species within the Project Area, the Environmental Consultant will implement the following contingency actions:</p> <ul style="list-style-type: none"> Identify activities that may have potentially increased the abundance, distribution or density/cover of significant weed species. Plan and implement a significant weed control program (may involve seeking advice from relevant authorities). Apply hygiene control and education measures. 	<p>Review Incident Records</p> <p>Review Annual Weed Monitoring Report</p> <p>Interview with Project Team to discuss weed issues / management</p>	Contingency Action	Refer to CEMP 52	Refer to CEMP 52	Not applicable
CEMP 62	<p>If it is determined that incorrect hygiene procedures are being undertaken, then the Project Manager will implement the following contingency measures:</p> <ul style="list-style-type: none"> Determine why appropriate hygiene procedures were not followed. Implement remedy, which could include: <ul style="list-style-type: none"> educating employees on appropriate hygiene measures. erect signs to highlight prohibited access. Review education measures (e.g. inductions, toolbox/site meetings and communications). Monitor success of control. 	<p>Hygiene Register</p> <p>Review Incident Records</p> <p>Interview with Project Team to discuss if there has been any hygiene procedure issues</p>	Contingency Action	Not applicable	Hygiene measures required under the CEMP are applicable to landscaping activities. No landscaping activities have been undertaken in the reporting period.	Not applicable
CEMP 63	<p>If rubbish associated with the project is observed along the boundary fence and / or within the adjacent Banksia Woodland TEC, then the Project Manager will implement the following contingency measures:</p> <ul style="list-style-type: none"> Removal of any rubbish drift along the boundary. Removal of any Project associated rubbish dumped in the adjacent Banksia Woodland TEC from the Project Area. Review education measures (e.g. inductions, toolbox/site meetings and communications). Monitor success of control. 	<p>Review Incident Records</p> <p>Undertake Site Inspection to observe the presence of waste</p> <p>Interview with Project Team to discuss if there has been any waste issues</p>	Contingency Action	<p>Site inspection 16/04/2024</p> <p>M01_Illyarrie Evidence Request</p> <p>Stockland Response Rev 0</p>	No rubbish associated with the project was observed along the boundary fence and / or within the adjacent Banksia Woodland TEC during Site inspection 16/04/2024 or reported during the reporting period (M01).	Compliant

Appendix C Environmental Offset Plan Compliance Assessment

Table C.2: Environmental Offset Plan Audit Table (Rev 4 May 2020)

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
Section 1 Introduction						
EOP 01	The objectives for the offset are therefore to provide adequate and compensatory habitat for the Carnaby's Cockatoo (<i>Calyptorhynchus latirostris</i>) and Forest Red-tailed Cockatoo (<i>Calyptorhynchus banksii naso</i>) that meets the following requirements: <ul style="list-style-type: none"> quality foraging habitat potential breeding habitat potential roosting habitat provision of adequate protection or management measures to provide certainty that the site's black cockatoo values can be maintained for the life of the approval. 	Assessment of EOP	On developing the EOP	R03_Environmental Offset Plan (Rev 4) R06_Preliminary Lot 50 Offset Site Assessment	The EOP outlines how the proposed offset site (Lot 50) adjoins the M2091 Ippolo Road conservation estate and the suitable attributes of the site to meet the objectives to provide adequate and compensatory habitat for the Carnaby's Cockatoo and Forest Red-tailed Cockatoo (R06). It outlines the management strategies that provide certainty that the site's black cockatoo values can be maintained.	Compliant
EOP 02	The purpose of this EOP is to articulate how the selected offset site provides a suitable offset for the assessed impact to habitat for Carnaby's Cockatoo and Forest Red-tailed Cockatoo. This is to be achieved by a direct offset, through the acquisition of a 104 ha portion of land within Lot 50 Reserve Road in Chittering Western Australia (Figure 1.1), to be protected within the State conservation estate and managed in perpetuity by the Department of Biodiversity, Conservation and Attractions (DBCA). The portion of land to be acquired as an offset provides quality foraging and breeding habitat for both species of Black Cockatoo.	Assessment of EOP	On developing the EOP	C03_DBCA Offset Credit_Chittering Site E01_Settlement Statement - Lot 50 Reserve Road Chittering 16.06.2020 C04_MOU (DBCA Stockland)_Nov 2021	DBCA entered an understanding with Stockland in March 2020 to transfer Lot 50 into conservation estate (C03). Lot 50 was acquired 22/06/2020 (E01) to be protected in perpetuity. DBCA and Stockland entered into an MOU in November 2021 for the management and transfer of Lot 50.	Compliant
Section 2 Reserve Road Offset Site						
EOP 03	The proposed offset is situated approximately 50 km northeast of the proposed impact area in Sinagra, within Lot 50 Reserve Road (Lot on Plan 39849) in the Shire of Chittering.	Review of certificate of title for the offset site	On obtaining the offset site	E02_WA Landgate Title Search - 2229_39 (71809941v1)	Landgate title search dated 23/06/2020 shows that the offset is located within Lot 50 Reserve Road (Lot on Plan 39849) in the Shire of Chittering in Stockland name.	Compliant
EOP 04	Lot 50 Reserve Road is approximately 142 ha in size, with a 104 ha portion of the lot to be set aside as the offset for EPBC Approval 2017/7921.	Review of certificate of title for the offset site Review of details in the EOP	On obtaining the offset site	E03_Transfer of Offset to DBCA E04_Website Screenshot Landgate 2024-06-16	The transfer of offset (E03) includes the entire Lot 50 being 141.9718 ha (E04).	Compliant
Section 4.2 Targets						
EOP 05	Transfer ownership of property to State Government (Conservation Commission)	Review of Evidence of Transfer of Ownership	On obtaining the offset site	E05_Certificate of Title 2229-39 Lot 50 On Deposited Plan 39849	Landgate title search dated 04/08/2020 shows that the registered proprietor of Lot 50 Reserve Road is the State of Western Australia with a restrictive covenant to Western Australian Planning Commission.	Compliant
EOP 06	Property to become part of the conservation estate and classified as a Class A Nature Reserve	Review of Landgate database	Following transfer to DBCA	E05_Certificate of Title 2229-39 Lot 50 On Deposited Plan 39849	The offset site is under a restrictive covenant. Once all completion criteria have been achieved the classification of conservation estate assigned to the site will be determined.	Not applicable
EOP 07	Amend Local Planning Scheme Zone from Agricultural Resource to 'Environmental Conservation'	Review correspondence with DPLH Interview with Project Team		Refer to EOP 05	Refer to EOP 05	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 08	Undertake weed survey and reduce weed occurrences in VT4	Review Baseline Weed Survey	Winter/spring	R07_63264_Lot50ReserveRoad WeedAssessment_Rev0 R08_64546_Lot50ReserveRoad WeedAssessment Creekline (Rev0) R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0 E24_Lot 50 Weed Control Scope E25_Lot 50 Weed Control Invoice March 2024 E26_Lot 50 Weed Control Invoice April 2024 E27_Lot 50 Weed Control Invoice May 2024	Weed assessment has been undertaken in September 2022 (baseline) (R07), April 2023 (creekline baseline) (R08) and September / October 2023 (monitoring) (R12). Landscape Australia Construction undertook weed control in 2024 (E24) along the Lot 50 Southern Boundary (VT4) to reduce weed occurrences of Arum Lily.	Compliant
EOP 09	Reduce spread of dieback caused by human movement and reduce risk of spread by livestock	Review Baseline Dieback Survey Review Dieback Management Procedures in place		R09_Dieback Survey 19-0891 - Lot 50 Reserve Road E32_FW_Lot 50 Reserve Road Chittering_ Fencing	The baseline dieback survey indicates that the unfenced southern boundary of lot 50 is dieback infested however correspondence from DBCA states that risk of dieback is low given the longtime cleared property for agriculture with no stock or public access.	Compliant
EOP 10	Exclude livestock from property	Review fencing repair records Review Incident Records Interview with Project Team	Ongoing	M02_Illyarrie Second Evidence Request Stockland Response Rev 0 E32_FW_Lot 50 Reserve Road Chittering_ Fencing	There is no fencing to exclude livestock on the southern boundary of Lot 50 however correspondence from DBCA states that the longtime cleared property for agriculture has no stock.	Compliant
EOP 11	Inhibit illegal site access	Review Incident Records Interview with Project Team	Ongoing	M01_Illyarrie Evidence Request Stockland Response Rev 0	There has been no third party access to Lot 50 in the reporting period.	Compliant
EOP 12	maintain appropriate fire breaks.	Review Firebreak Maintenance Records Interview with Project Team	Ongoing	E08_Lot 50 Firebreaks 1 E09_Lot 50 Firebreaks 2 E10_Lot 50 Firebreaks 3 E11_Lot 50 Firebreaks 4	Firebreaks meet the requirements of the Shire of Chittering firebreak notice.	Compliant
Section 4.4 Completion Criteria						
EOP 13	Stockland will continue to manage the site for a period of at minimum 3 years, until the completion criteria are met and responsibility for management of the site is ceded to the DBCA.	Interview with Project Team	End of the three year active management period	M01_Illyarrie Evidence Request Stockland Response Rev 0	Stockland are currently managing Lot 50 Reserve Road.	Compliant
EOP 14	Where all completion criteria are not met after the minimum three year management period, Stockland will continue to be responsible for management measures until all completion criteria are met, as per the contingency actions stipulated within Section 4.7.	Interview with Project Team	End of the three year active management period	Refer to EOP 13	Refer to EOP 13	Compliant
EOP 15	If any of the following completion criteria are determined unable to be met, then an additional 29.4 ha, or part thereof from the balance of the site (i.e. the area of the site not currently used by this offset) will be included as part of this offset.	Interview with Project Team	End of the three year active management period	Not applicable	The end of the three year active management period is to conclude in November 2024.	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 16	Completion criteria : Vegetation condition There has been no net decrease in vegetation condition when compared with the baseline survey	Review Baseline Vegetation Survey Review 3 year Vegetation Survey	End of the three year active management period	Not applicable	The end of the three year active management period is to conclude in November 2024.	Not applicable
EOP 17	Completion criteria : Weeds The number of weed species within the offset site is no greater than that recorded from the baseline survey	Review Baseline Weed Survey Review Annual Weed Survey	End of the three year active management period	Not applicable	The end of the three year active management period is to conclude in November 2024.	Not applicable
EOP 18	Completion criteria : Weeds There has been no increase in weed density / cover at the offset site when compared with the baseline survey.	Review Baseline Weed Survey Review 3 year Weed Survey	End of the three year active management period	Not applicable	The end of the three year active management period is to conclude in November 2024.	Not applicable
EOP 19	Completion criteria: Dieback introduction and spread There has been no spread of dieback into uninfested areas of the offset site compared to the baseline survey	Review Baseline Dieback Survey Review 3 year Dieback Survey	End of the three year active management period	Not applicable	The end of the three year active management period is to conclude in November 2024.	Not applicable
EOP 20	Completion criteria: Fencing and signage Perimeter fencing and signage (including dieback related signage) is present and functional, with no additional repairs or replacements outstanding.	Undertake Annual Site Visit to check fencing and signage	End of the three year active management period	E12_Lot 50 Fencing 1 E13_Lot 50 Fencing 2 E14_Lot 50 Fencing 3 C06_DBCA receipt of dieback signage M02_Illyarrie Second Evidence Request Stockland Response Rev 0	Fencing has been established on the western and eastern boundaries of Lot 50 however issues with the landowner have prevented fencing on the southern boundary. The southern boundary has been marked with white pegs to DBCA's satisfaction. DBCA confirmed receipt of dieback signage 26/04/2023 (C06).	Compliant
EOP 21	Completion criteria: Firebreaks Firebreaks meet the requirements of the Shire of Chittering firebreak notice	Undertake Annual Site Visit	End of the three year active management period	E08_Lot 50 Firebreaks 1 E09_Lot 50 Firebreaks 2 E10_Lot 50 Firebreaks 3 E11_Lot 50 Firebreaks 4	Firebreaks meet the requirements of the Shire of Chittering firebreak notice.	Compliant

Table 4.3 Proposed Management Measures:

EOP 22	Transfer of ownership and management of the offset site to the DBCA. Responsibility: Stockland	Review of Evidence of Transfer of Ownership Review of Evidence of Transfer of Management	Ownership will be transferred upon purchase of the offset site, while management will be transferred at the conclusion of Stockland's 3 year management period.	E05_Certificate of Title 2229-39 Lot 50 On Deposited Plan 39849	Landgate title search dated 04/08/2020 shows that the registered proprietor of Lot 50 Reserve Road is the State of Western Australia with a restrictive covenant to Western Australian Planning Commission.	Compliant
EOP 23	Provision of funding (\$30,000) to the DBCA for ongoing management of the offset site. Responsibility: Stockland	Review of receipt for provision of funding to DBCA	Following the conclusion of Stockland's 3 year management period.	Refer to EOP 13	Stockland's management period has not concluded.	Not applicable
EOP 24	Undertake fencing repairs/upgrades (\$15,000) along southern boundary of the site (approximately 2.5 km) to standards agreed with DBCA Responsibility: Stockland	Review of Stockland correspondence on fencing with DBCA Review of Invoice for fencing materials Review of Photographs of installed fencing	Within 1 year of land acquisition.		Issues with the landowner have prevented fencing on the southern boundary. The southern boundary has been marked with white pegs to DBCA's satisfaction.	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 25	Installation of 3 Nature Reserve signs identifying Lot 50 Reserve Road as a Nature Reserve. Responsibility: DBCA (Stockland to provide funding \$1,950)	Review of receipt for provision of funding to DBCA Review of Photographs of installed signs	Within 1 year of land acquisition.	E17_Nature Reserve Sign	Nature reserve signage (E17) has been installed on Reserve Road.	Compliant
EOP 26	Maintain firebreaks at the perimeter of the site to minimise fire risk to vegetation. Responsibility: Stockland (prior to transfer of management to DBCA), followed by DBCA	Review of Invoice for firebreak maintenance Review of Photographs of firebreaks	Prior to transfer of land to DBCA, then ongoing by DBCA as required by Shire of Chittering's firebreak notice.	E08_Lot 50 Firebreaks 1 E09_Lot 50 Firebreaks 2 E10_Lot 50 Firebreaks 3 E11_Lot 50 Firebreaks 4	Firebreaks are maintained at the perimeter of the site to minimise fire risk to vegetation.	Compliant
EOP 27	Ensure firebreaks meet the Shire of Chittering firebreak notice requirements at the time of transfer of property to DBCA. Responsibility: Stockland (prior to transfer of management to DBCA), followed by DBCA	Review of Invoice for firebreak maintenance Review of Photographs of firebreaks	Prior to transfer of land to DBCA, then ongoing by DBCA as required by Shire of Chittering's firebreak notice.	E08_Lot 50 Firebreaks 1 E09_Lot 50 Firebreaks 2 E10_Lot 50 Firebreaks 3 E11_Lot 50 Firebreaks 4	Firebreaks meet the requirements of the Shire of Chittering firebreak notice.	Compliant
EOP 28	Conduct baseline weed survey of entire site in accordance with DBCA standard operating procedures (DEC 2011) to identify weed species present, establish baseline weed densities, and determine where weed management is required. Responsibility: Stockland	Review Baseline Weed Survey	First winter/spring following acquisition and prior to transfer of land to DBCA.	R07_63264_Lot50ReserveRoad WeedAssessment_Rev0 R08_64546_Lot50 Reserve Road Weed Assessment Creekline (Rev0)	A baseline weed assessment was undertaken September 2022 (R07) with further mapping undertaken April 2023 (R08) to identify weed species present, establish baseline weed densities, and determine where weed management is required.	Compliant
EOP 29	Monitor weeds through annual surveys in accordance with Table 4.2. Responsibility: Stockland	Review Annual Weed Surveys	Annually in winter/spring for 3 years, prior to transfer of management to DBCA.	R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0	Annual weed monitoring (R12) was undertaken in September / October 2023 to assess the number of weed species and the weed density / cover at the offset site when compared with the baseline survey.	Compliant
EOP 30	If necessary, based on monitoring, develop a weed control program and appoint an experienced contractor to manage weeds within the impacted areas. Weed control techniques may include the following: <ul style="list-style-type: none"> spot spraying – where hand-spraying apparatus is applied directly to the target plant hand weeding – physical removal of the weed. Responsibility: Stockland	Review Baseline Weed Survey Review Annual Weed Surveys Review Weed Contractor Records for Weed Control Program	Frequency of any weed control will depend on the type of weeds present based on the advice of a weed control expert.	R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0 E24_Lot 50 Weed Control Scope E25_Lot 50 Weed Control Invoice March 2024 E26_Lot 50 Weed Control Invoice April 2024 E27_Lot 50 Weed Control Invoice May 2024	The annual weed monitoring report recommends weed management activities to be focused on areas of dense infestation however no specific program is specified. Landscape Australia Construction undertook weed control in 2024 (E24) to reduce weed occurrences of Arum Lily and Ficus carica.	Compliant
EOP 31	During weed control, if required, the following practices will be implemented: <ul style="list-style-type: none"> use of biodegradable marking dye during all spot spraying tasks installation of safety warning signage around the perimeter of the area to be controlled, including information on the type of weed control and planned timing (signage shall be placed prior to application and removed once area has dried) undertaking spraying only under calm weather conditions as identified in the herbicide manufacturer's recommendations Responsibility: Site personnel	Review Weed Standard Procedures Weed Contractor Operating	Annually for 3 years, or as required based on the advice of a weed control expert.	E28_Marking Dye E29_Weed Control Signage	Landscape Australia Construction use biodegradable marking dye (E28) where applicable erect safety warning signage.	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 32	All vehicles, machinery and equipment will be free of mud and soil prior to entering to prevent the introduction and spread of weeds/pathogens Responsibility: Site personnel	Review Dieback Management Procedures in place Review Hygiene Register	During active management.	E33_Hygiene Register	The 2023/24 hygiene register was provided for vehicles, machinery and equipment entering Lot 50 confirming each was free of mud and soil prior to entering Lot 50 for site inspections, fencing or firebreak maintenance.	Compliant
EOP 33	Installation of signage (\$1,000) along tracks where weed management will be undertaken, demarcating dieback infested zones and dieback free zones Responsibility: Stockland	Review Invoice(s) for signage Review of Photographs of signage and locations of placement	Prior to implementation of weed management measures.	E15_Dieback Signs Locations Lot 50 E16_Dieback Signage Design C06_DBCA receipt of dieback signage	Dieback signage (E16) was erected at locations on Lot 50 (E15) by DBCA (C06).	Compliant
EOP 34	All vehicles, machinery and footwear of personnel undertaken work onsite are to be inspected for soil and plant material prior to entering the offsite Responsibility: Site personnel	Review Dieback Management Procedures in place Review Hygiene Register	During active management.	E33_Hygiene Register	The 2023/24 hygiene register was provided for vehicles, machinery and equipment entering Lot 50 confirming each was free of mud and soil prior to entering Lot 50 for site inspections, fencing or firebreak maintenance.	Compliant
EOP 35	All works on site are to be undertaken in dry soil conditions only. Responsibility: Site personnel	Interview with Project Team Cross reference hygiene register with rainfall records for Chittering	During active management and monitoring periods	C05_Dry Soil Conditions Lot 50	Fencing works were undertaken during dry soil conditions (C05).	Compliant
EOP 36	Prior to moving from dieback infested areas to dieback free areas, vehicles, machinery and footwear are to be cleaned of soil and vegetative material. Responsibility: Site personnel	Review Dieback Management Procedures in place Review Hygiene Register	During active management and monitoring periods	E33_Hygiene Register	The hygiene register shows vehicle and machinery checks more than once per day.	Compliant

Table 4.4 Proposed Monitoring Actions

EOP 37	Monitoring Action: Visual observation and assessment of distribution, abundance and density/cover of weed species Purpose: <ul style="list-style-type: none"> To minimise the spread or introduction of weeds into areas of vegetation upslope (north) of the creek line. To track progression towards completion criteria To determine the effectiveness of weed control management measures (if implemented). Performance Indicator: Monitoring indicates that there has been no increase in the distribution, abundance or density/cover of weed species recorded during the baseline weed survey. Location: Across the entire site, using methodology established as part of the baseline survey.	Review Surveys	Annual	Weed	Annually for 3 years (minimum) prior to transfer of management to DBCA	R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0	Annual weed monitoring (R12) was undertaken in September / October 2023 to assess the distribution, abundance and density/cover of weed species. The monitoring indicated that there has been no significant increase in the distribution, abundance or density/cover of weed species from records during the baseline weed survey. OFI Future weed monitoring reports to address Environmental Offset Plan performance indicator for proposed monitoring actions.	Compliant
EOP 38	Monitoring Action: Visual observation and assessment of vegetation condition Purpose: To assess success of management actions against completion criteria Performance Indicator: Visual inspection of vegetation indicates that there has been no decline in vegetation condition and health. Location: Across entire site, using methodology established as part of the baseline survey	Review Surveys	Annual	Weed	After 3 years prior to transfer of management to the DBCA. Results will be compared to the baseline survey	Not applicable	The transfer of management to DBCA is due to occur in November 2024.	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 39	<p>Monitoring Action: Dieback assessment</p> <p>Purpose: To assess the extent of spread of dieback within the site, and compare these results against the completion criteria</p> <p>Performance Indicator: No spread of dieback into uninfested areas when compared to the baseline survey</p> <p>Location: Across the entire site, using methodology established as part of the initial assessment</p>	Review 3 year Dieback Survey	After 3 years prior to transfer of management to the DBCA	R09_Dieback Survey 19-0891 - Lot 50 Reserve Road 2020	The last dieback survey was undertaken in November 2020. However, the transfer of management to DBCA is due to occur in November 2024.	Not applicable
EOP 40	<p>Monitoring Action: Visual observation of condition of fencing and signage around the reserve area</p> <p>Purpose: To ensure that fencing and signage is in good condition and that there has been no damage caused by livestock incursion or unauthorised access.</p> <p>Performance Indicator: Visual inspection of fencing and signage around the reserve area indicates that no damage has been caused to fencing by livestock or as a result of unauthorised public access.</p> <p>Location: Fencing and signage locations</p>	Undertake Annual Site Visit to check fencing and signage	Annually for 3 years (minimum) prior to transfer of management to DBCA.	E12_Lot 50 Fencing 1 E17_Nature Reserve Sign E13_Lot 50 Fencing 2 E14_Lot 50 Fencing 3	Inspection identified that the fencing established on the western and eastern boundaries of Lot 50 and white pegs on the southern boundary were in place.	Compliant
EOP 41	<p>Monitoring Action: Visual observation of condition of firebreak</p> <p>Purpose: To ensure that firebreaks are maintained in accordance with Shire of Chittering firebreak notice.</p> <p>Performance Indicator: Visual inspection of firebreaks within the reserve area indicates that firebreaks have been maintained to the required standard and in accordance with the Shire of Chittering firebreak notice.</p> <p>Location: Firebreaks</p>	Undertake Annual Site Visit to check firebreaks	Annually for 3 years (minimum) prior to transfer of management to DBCA	C07_Chittering fire breaks inspection E08_Lot 50 Firebreaks 1 E09_Lot 50 Firebreaks 2 E10_Lot 50 Firebreaks 3 E11_Lot 50 Firebreaks 4	An inspection was undertaken 5/01/2024 prior to maintenance of the firebreaks.	Compliant

Table 4.5 Proposed Contingency Actions

EOP 42	<p>If monitoring indicates a new weed species has been introduced compared to the baseline weed survey, then the following contingency actions will be implemented:</p> <ul style="list-style-type: none"> Map the distribution of the newly introduced weed species Identify activities which may have potentially introduced the weed species Plan and implement weed control program (may involve seeking advice from relevant authorities) Apply hygiene control and education measures for site personnel 	<p>Review Incident Records</p> <p>Review Annual Weed Surveys</p> <p>Interview with Project Team</p>	Contingency	<p>R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0</p> <p>R07_63264_Lot50ReserveRoad WeedAssessment_Rev0</p> <p>R08_64546_Lot50 Reserve Road Weed Assessment Creekline (Rev0)</p>	<p>Two new weed species were identified (*Hypochaeris ?radicata and *Silene gallica var. gallica) during the 2023 monitoring (R12) in comparison with the baseline weed survey (R07, R08).</p> <p>Recommendations for the weed control program and hygiene control were included in the monitoring report.</p> <p>OFI</p> <p>Future weed monitoring reports to specifically address individual Environmental Offset Plan contingency actions required where triggers have been met.</p>	Compliant
EOP 43	<p>If monitoring indicates that there has been a 5% increase in weed species density/cover compared to baseline levels, then the following contingency actions will be implemented:</p> <ul style="list-style-type: none"> Map revised extent of the specific weed species Identify activities that may have potentially increased the abundance, distribution or density/cover of weed species Plan and implement a weed control program (may involve seeking advice from relevant authorities) Apply hygiene control and education measures for site personnel 	<p>Review Incident Records</p> <p>Review Annual Weed Surveys</p> <p>Interview with Project Team</p>	Contingency	R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0	<p>The 2023 weed monitoring report (R12) indicates that sites had percentage cover varying from less than 1% at 64 sites to between 1% to 60% at the remainder. The report does not provide a discernible method on whether there has been a 5% increase in weed species density/cover compared to baseline levels. The discussion focusses on specific species of weeds and not overall increase in weed cover indicating there has not been a 5% increase in weed species density/cover compared to baseline levels.</p> <p>OFI</p> <p>Future weed monitoring reports to specifically address individual Environmental Offset Plan contingency actions required where triggers have been met.</p>	Compliant

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 44	<p>If it is identified that vehicles, machinery and footwear have not been clean on entry to / exit from the site, then the following contingency actions will be implemented:</p> <ul style="list-style-type: none"> Determine why appropriate hygiene procedures were not followed Clean-down affected vehicles, machinery or footwear offsite prior to entering the site Educate site personnel on appropriate hygiene measures Ensure there are sufficient dieback warning signs throughout the area 	<p>Review Incident Records</p> <p>Interview with Project Team</p>	Contingency	Refer to EOP32, EOP 34 and EOP 36	No hygiene breaches were identified during the reporting period.	Not applicable
EOP 45	<p>If the perimeter fencing is observed to be compromised, with the potential to allow livestock or public access, then the following contingency actions will be implemented:</p> <ul style="list-style-type: none"> Investigate cause Immediately remove livestock from the offset site that may have entered Repair fencing to a standard that prevents livestock ingress or unauthorised public access 	<p>Review Incident Records</p> <p>Review Annual Site Inspection Report</p> <p>Interview with Project Team</p>	Contingency	Refer to EOP10	Stockland are having issues with the neighbour in regards to the southern boundary fence. The boundary has been pegged and discussions with DBCA are ongoing.	Not applicable
EOP 46	<p>If the firebreak is not maintained to requirements of the Shire of Chittering firebreak notice, firebreak maintenance will be undertaken to the required standard of the Shire of Chittering Firebreak notice</p>	<p>Review Incident Records</p> <p>Review Annual Site Inspection Report</p> <p>Interview with Project Team</p>	Ongoing	<p>C07_Chittering fire breaks inspection</p> <p>E08_Lot 50 Firebreaks 1</p> <p>E09_Lot 50 Firebreaks 2</p> <p>E10_Lot 50 Firebreaks 3</p> <p>E11_Lot 50 Firebreaks 4</p>	The firebreak inspection undertaken on 5/01/2024 identified that the firebreak was not maintained to the required standard of the Shire of Chittering Firebreak notice. Maintenance was then undertaken.	Compliant
EOP 47	<p>If one or more completion criteria are not met at the end of the three year active management period, then the following contingency actions will be implemented:</p> <ul style="list-style-type: none"> Increase the active management period of the site to allow Stockland time to meet completion criteria Undertake further monitoring (including dieback assessment) to assess the site against the completion criteria Continue to provide annual reports on the status of the site and progression towards meeting completion criteria If completion criteria are determined unable to be met, an additional 29.4 ha (or part thereof) of the site, as agreed by the Commonwealth Minister, is to be used as part of this offset, and transferred to the DBCA. 	<p>Review Annual Report provided to DBCA</p> <p>Review correspondence with DBCA on Completion Criteria not being met</p> <p>Review correspondence on the transfer of an additional 29.4 ha of the site</p>	End of the three year active management period	Not applicable	The three year active management period commenced in November 2021.	Not applicable.
Section 5 Reporting Requirements						
EOP 48	<p>Stockland will provide a report on the actions described in the EOP annually for 3 years after the completion of the sale and transfer.</p>	<p>Review Annual Report provided to DCCEEW on the actions described in the EOP</p>	Reporting 3 months following the conclusion of the weed management program	M02_Illyarrie Second Evidence Request Stockland Response Rev 0	There is no evidence that an annual report has been provided to in 2022 or 2023.	Potentially non-compliant
EOP 49	<p>A final report will be provided at the conclusion of the 3 year management period, where completion criteria are met.</p>		Reporting 3 months following the conclusion of the 3 year weed management program	C04_MOU (DBCA Stockland)_Nov 2021	The management period concludes in November 2024.	Not applicable

Commitment No.	Commitment	Verification Method	Timing	Evidence	Determination	Compliance Finding
EOP 50	Where the completion criteria are not met, additional management by Stockland and subsequent additional annual reports will be required and provided until all handover criteria are met.			Refer to EOP 49	Refer to EOP 49	Not applicable

Appendix D Arboricultural Impact Report Tree Survey



the
arbor centre
CONSULTANCY

Lot 1665 Wanneroo Road, Sinagra

Stage 1: - Site Investigations and Preliminary Arboricultural Impact Report

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1. Purpose of this Preliminary Report

This Stage 1 report investigates the status of the identified trees (and their surrounds) located within POS and road reserve areas (as specified by Stockland - refer Section 2 –*Concept Plan*), within the proposed Lot 1665 development site at 1040 Wanneroo Road in Sinagra. Refer figure 1 for development site outline and figure 2 for areas specified by Stockland for Arboricultural assessment.

The findings from these stage 1 Investigations and report, in conjunction with recommendations to the proposed design will enable the tree specific and site specific tree protection specifications to be developed, as part of the Stage 2 Arboricultural Interpretation of the proposed design & Stage 3 Specifications.

Further, this report identifies preliminary tree retention and management considerations required, to achieve the ongoing success of the trees within the finished POS and road reserve areas.



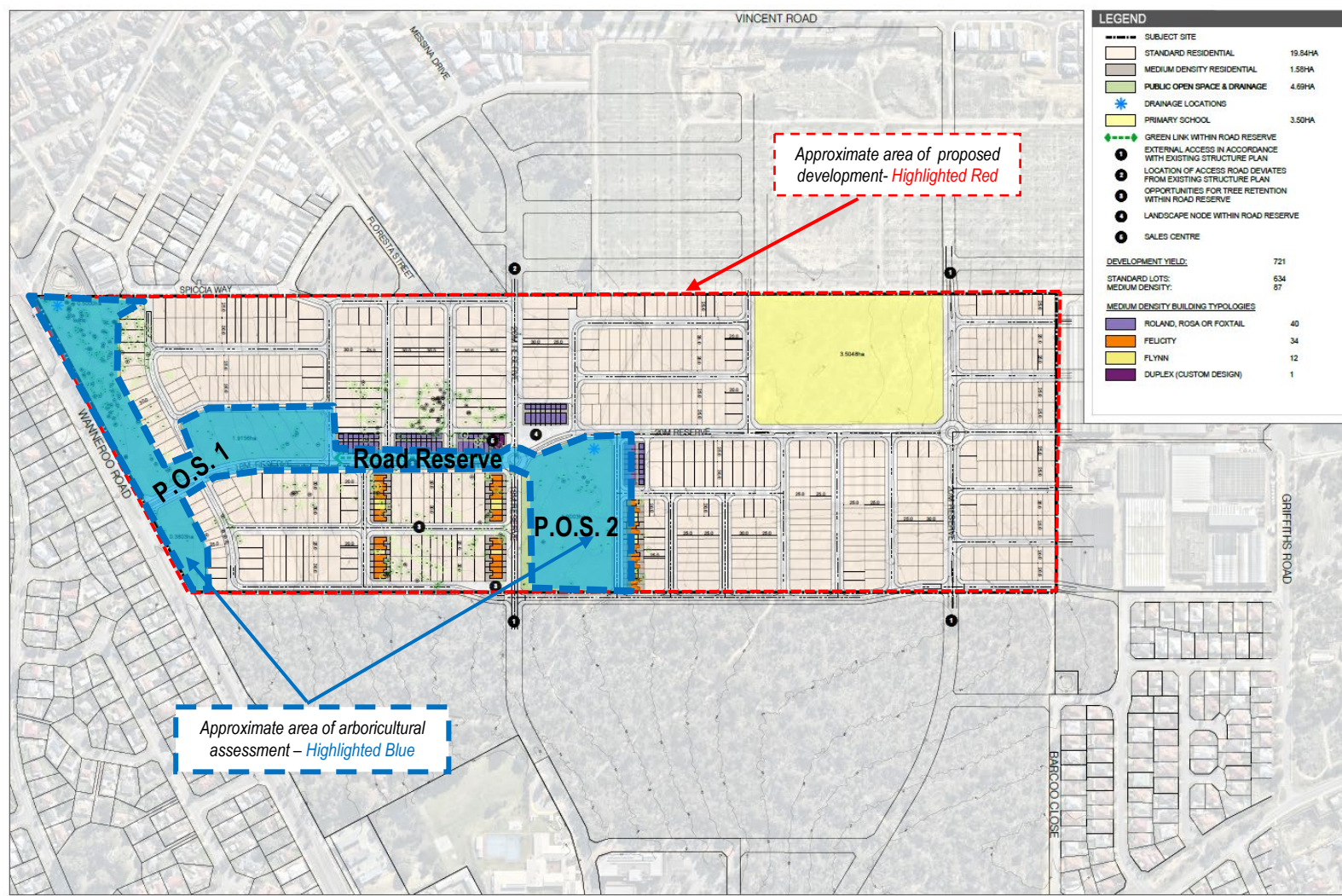
Figure 1. Satellite image showing approximate Development Site footprint (Highlighted Red). Image Source – www.NearMap.com , Image date 22nd December 2018

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2. Supplied Concept Plan (URBIS)



Preliminary Concept Plan
Lot 1665 Wanneroo Road, Sinagra

Level 14, The Quadrant, 1 William Street | Perth WA 6000 Australia | H1 8 9346 0500 | URBIS Pty Ltd | ABN 50 105 256 228

DATA SOURCE
MNG
PROJECTION
FOG84

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PROJECT NO. ND2271
DATE 05.11.18
DRAWING NO. 03
REVISION F

Figure 2. Supplied image showing approximate Development Site footprint (Highlighted Red) and Approximate area of Arboricultural assessment (Highlighted Blue). Image Source URBIS – Preliminary Concept Plan – Lot 1665 Wanneroo Road Sinagra – Drawing No. 03 Rev F – 5/11/18

3. Background

At the request of Stuart Sinclair (Senior Development Manager - Stockland), Arbor Centre Consultancy was engaged to attend site at 1040 Wanneroo Road, Sinagra to obtain and provide the following information for trees within the identified POS and road reserve areas (refer figure 2):

- Identify the previously surveyed, tagged and numbered (by McMullen Nolan Group) trees within the identified POS and a select road reserve area of the proposed development site;
- Identify genus, species and common name for each tree;
- Comment on current health, structure & age of the identified trees;
- Obtain height, canopy spread and trunk diameter measurements;
- Provide Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) radii for each tree;
- Provide preliminary management considerations (remove, replace, or seek further Arboricultural Advice);
- Compile general information relevant for the individual specimen(s);
- Conclusions and Recommendations.

3.1 Arboricultural Inspection

Arbor Centre undertook an Arboricultural assessment of the 383 x identified trees between the 24th to 29th January 2019. The assessment was a visual inspection undertaken from ground level and did not incorporate any form of below ground or aerial inspection of the trees.

3.2 Limitations of this Report

The information contained within this report is not intended, or suitable to be used as a 'Tree Management Plan' for the 383 x subject trees. Rather, this report is to provide guidance on how the subject trees currently present, in light of the development works proposed for the site and; provide preliminary considerations and recommendations on how best to manage and protect the trees throughout the development project.

This assessment and report does not attempt to predict or quantify potential future tree failures. The partial or complete failure of trees and/or tree parts is a natural part of any environment. Tree failures can be influenced by a wide range of factors including (but not limited to); tree age and condition, quality of previous pruning works; abrupt changes to the local growing environment, prior root zone incursion/impacts and high winds or other extreme climatic events.

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4. Summary of Arboricultural Survey & Assessment

A total of 383 trees were assessed and inspected. Each of the specified trees were identified and) and visually inspected from ground level to assess and record the: species; tree height and canopy spread; trunk diameter; age status; current tree health and structure and observations and comments relevant for the individual specimen - refer Appendix B *Table of Results* for detail.

4.1 Significant Trees

A significant number of mature to veteran native and indigenous trees were noted across the proposed development site (refer section 5) Due to the increasing loss of mature urban trees through infill development and other projects, mature and veteran trees are increasingly rare and valuable within the urban area, from both an environmental and amenity perspective. Such trees should be afforded the highest priority for retention.

4.2 Tree Species Diversity

The majority (95%) of the 383 trees assessed consisted of 3 x different genera.

- *Corymbia sp.* x235 (61%)
- *Eucalyptus sp.* x99 (26%)
- *Allocasuarina sp.* x29 (8%)
- *Other sp.* x20 (5%)

The tree population within the area assessed varies in diversity from introduced species (2%) to Australian native species (13%) through to endemic West Australian species (85%)

4.3 Tree Age and Useful Life Expectancy (ULE)

Of the 383 trees; 90% were assessed as mature; 8.6% as juvenile or semi mature; and 1.3% as Post mature at the time of inspection.

Most of the trees (56.5%) were assessed to have an estimated useful life expectancy (ULE) of 40+ years, 2% of the trees were assessed to have a ULE of <5 years.



4.4 Other Endemic Vegetation on site

Several *Xanthorrhoea preissii* (Grass Tree) specimens were noted across the proposed development site. Due to the significant and increasing loss of endemic vegetation within the greater Perth area and; the potential to relocate *Xanthorrhoea* specimens (given the appropriate levels and standards of input and aftercare). Consideration should be given to protecting in situ and/or relocating these iconic specimens of Perth's local flora.

4.5 Tree Health

Most of the trees assessed displayed good to acceptable health status (88%), approximately 2.6% of tree onsite were considered dead (i.e. no active conductive tissue) at the time of assessment.

A number of trees within the assessed area displayed varying levels of canopy decline and/or reduced vigour at the time of inspection (refer Appendix B: Table of Results for further detail). The signs/symptoms of reduced tree health observed may be attributed - but not limited to -

- Previous root loss/root zone impact (proximity trenching/excavations; demolition of previous structures; changes to grade (soil level)); mechanical damage/root scalping etc.);
- Mechanical damage to the trees conductive tissue (fire damage; vehicle/machinery impacts; bird damage etc.);
- The combination of excavations in close proximity to root zones (i.e. clearing of land; cut and fill operations; open trenching of services, road installation) and a lack of timely remedial work (that would have limited tree decline and stress);
- Competition and canopy suppression (lack of available above and below ground growing space);
- Environmental influences (poor seasonal rainfall, possible storm damage);
- Natural senescence (old age);
- Potential pH (Acidity/Alkalinity) and/or EC (Salinity) and/or soil issues;
- The influence of pests and/or disease.

NOTE: An area within the site was noted as significant based on an unusually large amount of deceased trees (refer Section 5 - figures 4 and 9).

Further investigation could be undertaken into determining the possible underlying causes for this area of dead trees within the site (i.e. potential soil related issues etc.).

4.6 Tree Structure

The majority of the trees that were assessed have developed a good to acceptable structure (82.7%). Several structural issues were observed within the surveyed tree population including; rubbing/crossing



stems, deadwood in canopies; fire damage; previous branch failures, narrow points of attachment and bark inclusions, canopy suppression etc., however; these issues are generally considered manageable within the scope of an ongoing, proactive tree management program.

4.7 Seek Further Arboricultural Advice

A number of trees have been recommended for further discussion with the Arboriculturist to develop appropriate long term tree management approaches and to discuss observations made at the time of inspection. Subsequently, more definitive recommendations can be provided regarding the nature of Arboricultural works and time frames that may be apply (refer Appendix B: Table of Results for further detail). The remaining trees have been identified as worthy of retention subject to being afforded the appropriate tree protection measures throughout the development process (refer Appendix B: Table of Results for further detail).

4.8 Protection of Trees during Project Works

Specialist Arboricultural input will be required for trees that are identified for retention; to incorporate protection and remedial measures into the final design specifications of the proposed development and; in determining installation methodologies and construction specifications to be actioned prior to and during project activities.

This will ensure that measures to minimize tree root and canopy impact on specimens identified for retention, can be designed into the project specifications and documentation and; implemented during construction – refer Point 6. Overview of Australian Standards AS 4970 & AS 4373 and refer Point 7. *Preliminary Tree Retention Guidelines* for further detail.



5. Examples of Significant Trees within the Assessed Areas



Figure 3. Mixed stand of endemic trees



Figure 4. Area containing an unusually high concentration of dead trees



Figure 5. Mature trees located within proposed road reserve area

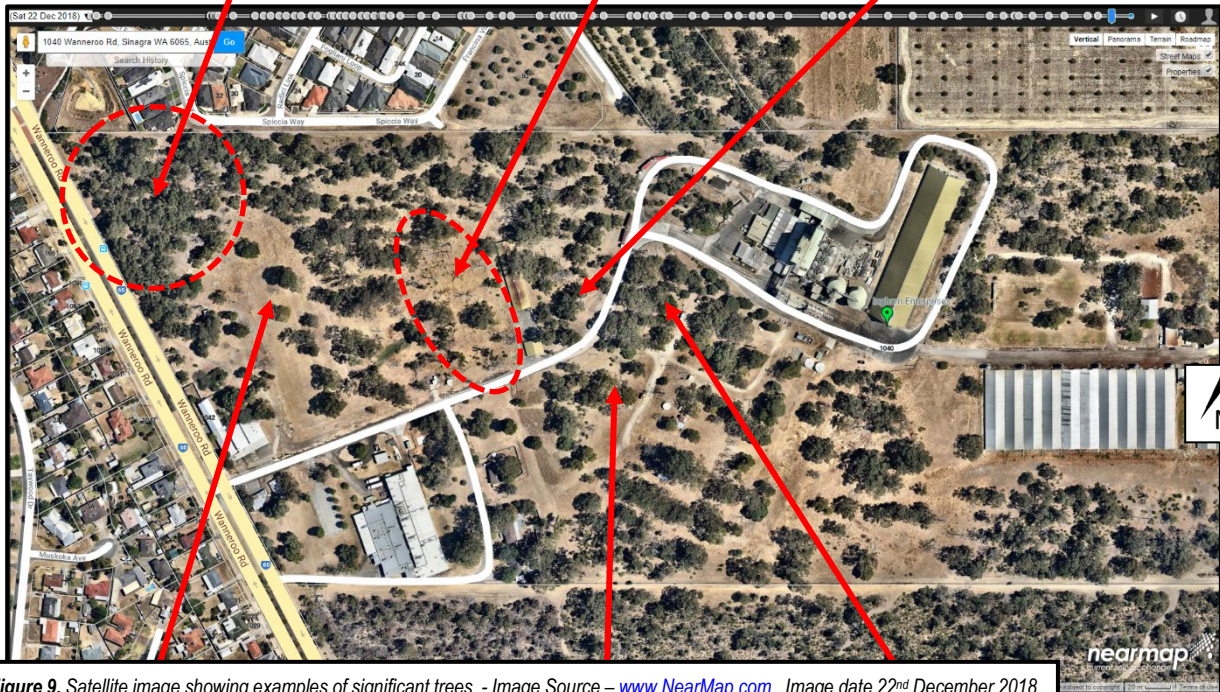


Figure 9. Satellite image showing examples of significant trees - Image Source – www.NearMap.com , Image date 22nd December 2018



Figure 6. Specimen Lemon Scented Gum Tree, located within an open space area



Figure 7. Mixed stand of endemic & native trees
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Figure 8. Mixed stand of endemic & Native trees



6. Overview of Australian Standards AS 4970 & AS 4373

6.1 AS 4970 'Protection of Trees on Development Sites' 2009

To successfully incorporate trees into the urban environment, careful consideration, planning and protection should be afforded to both above and below ground parts of the tree - leaves, branches, stems of the above ground parts and; below ground, absorbing roots and structural roots.

The operations and activities associated with the construction and development process can have adverse effects on tree health and stability. Those activities that can potentially impact on the tree(s) will require remedial measures to be taken prior to, during and post development to ensure that all reasonable measures are taken to offset such damage.

Damage to tree roots is often irreversible and a common cause of tree decline and/or death following the construction and development phase. The implementation of a Tree Protection process will help lessen the impact that proposed development will have on the root zone (resulting from grade changes, excavations, soil compaction, mechanical damage etc...) and enable timely remedial action to help the tree to retain enough root mass for the continuation of natural growth and development.

Australian Standards have created AS 4970 'Protection of Trees on Development Sites' 2009 that addresses many of the issues that construction and development can have on trees and provides a guide only on how to avoid unnecessary damage and outlines a process that will protect tree welfare during the construction and development phase.

To calculate the minimum area required to be protected during construction, development or during any activities that may cause harm or injure the tree and its parts, the formula $12 \times \text{trunk Diameter at Breast Height}^* \text{ (DBH)}$ is used. For Example - if trunk diameter of the tree in question is 500mm – $12 \times 500\text{mm} = 6 \text{ meter TPZ}$ which is measured in meters as a radius and taken from the centre of trunk.

Note: - *Accurate measurement of trunk diameter(s) in millimetres - Typically measured at 1.4 meters above ground level for single stemmed trees; at the narrowest point of trunk for co dominant specimens or; at ground level for (low) multi stemmed form. - TPZ to not be <2 meters or >15 meter in diameter.

Where encroachment (building, construction, excavation, landscaping or otherwise) into the Tree Protection Zone is required, Arboricultural input will be necessary to assess the extent of potential impact that may occur and if required, provide Arboricultural measures that can be taken to enable modification of the TPZ and allow root zone encroachment to occur.

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Any tree preservation recommendations made for the subject trees need to recognise that the Australian Standards do not consider the individual tree characteristics and tolerances that the species possess or; the soil type and other environmental conditions or circumstances that are specific to the Singara site.

It is important to recognise that the TPZ's identified in this report are simply an indication of a boundary around the tree beyond which disturbance is considered inconsequential and is unrestricted. However; the main purpose is to identify that any change or disturbance within the TPZ boundary will require Arboricultural input and approval. This includes activities such as (but not limited to:): soil level changes and excavations, demolition and/or removal of vegetation and/or infrastructure, installation of paths & below ground services (including irrigation) hard and soft landscaping and; activities that could impact on tree canopy i.e. craning, vehicular/machinery movement etc.

Any tree retention and/or protection specifications/recommendations made should be specified by an (minimum) Australian Qualification Framework Level 5 Arborist (AQF 5 – *Diploma in Arboriculture*); in keeping with the Australian Standards AS 4970 '*Protection of Trees on Development Sites*' 2009 and be undertaken under the direction of the Arboriculturist.

6.2 AS 4373 'Pruning of Amenity Trees' 2007

AS 4373 '*Pruning of Amenity Trees*' 2007 has been developed to provide a guide on tree pruning procedures and practices to limit poor or deleterious type pruning being unnecessarily inflicted onto amenity trees.

The result of incorrect pruning of a tree is often irreversible, can negatively impact its health and structure and create unnecessary hazards within and surrounding the trees.

Correct tree pruning practices can reduce the likelihood of branch failures, limit pest and disease infestations, improve site safety and tree amenity, encourage sound structural development and extend tree longevity.

Any pruning works undertaken to the assessed trees should be specified by a (minimum) Australian Qualification Framework Level 5 Arborist (AQF 5 – *Diploma in Arboriculture*); comply with the Australian Standards AS 4373 '*Pruning of Amenity Trees*' 2007 and be undertaken by suitably trained and qualified Arborists with a minimum AQF Certificate 3 in Arboriculture under the supervision of the Arboriculturist.

References: AS 4373 2007, AS 4970 2009



7. Preliminary Tree Retention Guidelines

Below is an outline of the matters that will need to be addressed as part of developing and implementing a Tree Retention Plan for the Tree specimens proposed to be retained within the proposed development of Lot 1665, at 1040 Wanneroo Road in Sinagra.

7.1 Tree Preservation Considerations

- Refinement and further specialist Arboricultural input will be required in determining construction methodologies and specifications prior to developing a final design and implementation; to ensure minimal tree root and canopy impact can be designed into the project.

Note: *A collaborative review of proposed designs and works methodologies by the Project Arboriculturist in conjunction with relevant parties to develop and implement modifications and refinements, in order to reach a successful, tree sensitive outcome for the project.*

- The implementation of tree specific Tree Protection Zones (TPZ's) and the erection of approved protective fencing and identification signage to be installed prior to the commencement of works at the delineation of the "Specified" TPZs, (refer point 6 *Overview of Australian Standards AS 4373 & AS 4970* for a high level overview of the tree retention process).
- The Tree Protection Zones are to be retained for the duration of the construction period and are not subject to modification without prior approval from the Arboriculturist. Contractors are to be aware of the Tree Protection Zone within the site's works area, and that no works are to occur within this area without prior approval from the Arboriculturist.
- Avoiding disturbance/ incursion into the Tree Protection Zone (TPZ) projections and; that where encroachment into the TPZ area is unavoidable, the Arboriculturist specify/provide approval for and/or inputs into appropriate works methodologies and/or remedial measures prior to any incursion occurring. Further, there may be a requirement (based on the recommendations made by the Arboriculturist) for the Arboriculturist to be present during the proposed works to assess tree impacts and prescribe and/or undertake necessary remedial works.
- Tree Protection Zone Restrictions - Activities within the TPZs are to be specified in construction documentation & drawings and; subject to prior approval by the Arboriculturist through the



development and construction phases as identified. The TPZs are to be treated as a “No Go” zones and provision for such activities will need to be facilitated elsewhere on site.

For example:-

- Traversing and/or Parking of plant machinery or vehicles where root protection measures have not been implemented;
 - Storage for construction or deleterious materials where root protection measures have not been implemented;
 - Mechanical removal of vegetation;
 - Unprotected vehicle refuelling;
 - Preparation of chemicals and concrete washout;
 - Areas to dump construction and general waste;
 - Wash down or cleaning of any kind;
 - Locations for site offices or toilets;
 - Excavation and dewatering activities;
 - Or any other activity that may harm or injure the tree above or below ground.
- Any below ground services that are proposed to travel through/encroach within the identified TPZs i.e. below ground infrastructure, pipe works, gully pits water, power, gas, telecommunications, irrigation etc., be relocated/diverted to outside of the TPZ projection(s). This should be undertaken in conjunction with the Arboriculturist to identify where new service alignments are best located to minimise impact on the subject trees - including methodologies associated with their installation.
 - Where diversion of proposed below ground services and/or construction within the TPZ is not achievable, Arboricultural input(s)/approval will be required prior to works, to quantify potential root loss; limit unnecessary root damage and/or provide remedial measures necessary to offset potential root loss. Where scheduled works cannot reasonably be diverted outside the TPZ, Arboricultural supervision will be required during works to quantify potential root loss, limit unnecessary root damage/impact, and/or provide possible remedial measures necessary to offset potential root loss. Works include but are not limited to;
 - Clearing and site stripping;
 - Any soil level changes (cut and/or fill);
 - Any excavations;
 - Any Construction;

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- Below ground service installation/upgrades;
 - Hard and Soft Landscaping (including irrigation installation).
- Selective pruning of the trees canopies helps improve structural form and site safety and; crown lifting for construction, vehicular or machinery access may be required (to varying degrees) – refer point 6 *Overview of Australian Standards AS4373* for further detail.
 - Pruning of tree roots (subject to Arboricultural approval) where proposed works may encroach into the TPZ area(s) will need to be undertaken by or under the supervision of the Arboriculturist.
 - Supplementary watering of the trees - subject to amount of potential root loss & seasonal variation* - will likely be required.

**Note: Timing of works around the tree(s) could have significant implications regarding irrigation rates and frequencies and the associated level of maintenance required i.e. active growing periods within warmer months as opposed to slower growth periods in winter.*
 - Potential remedial measures for both canopy and root zone, i.e. root zone coring, soil wetting agents and liquid organic soil drenching (where/as identified by the Arboriculturist and if required).
 - Installation of surface protection measures (where identified by the Arboriculturist and if required) to enable vehicle/machinery movement within the TPZ is an option that may need to be considered for the site.
 - Regular Arboricultural inspections &/or supervision during the works period is critical to ensuring tree welfare is preserved.
 - Determining appropriate tree protection penalties for non-compliance (e.g. based on individual Amenity Tree Valuation (\$) or damage to tree parts) could be considered/implemented.

References: AS 4373 2007, AS 4970 2009,



8. Conclusions

8.1 The trees surveyed for this report currently provide valuable environmental, habitat, aesthetic/amenity and social benefits for the local area, the value of these services can be expected to increase as urbanisation of the local area continues.

NOTE: *This is particularly relevant for the mature and veteran trees on the site, which are becoming increasingly rare in the urban environment, largely due to infill development.*

8.2 While each tree was visually assessed from ground level to identify structural and/or health issues, further Arboricultural investigations/inputs may be required to clarify observations made at the time of inspection and subsequently provide a more definitive conclusion on specific or further recommendations that may be required. Further investigations will be required for trees identified in Appendix B as Seek further Arboricultural advice prior to making specific recommendations regarding their retention into the final landscape.

8.3 Achieving the successful preservation & protection of the assessed trees will require specific and timely Arboricultural input into the development of construction specifications and drawings etc.

Further consultation with the Arboriculturist will be required regarding:

- The finalisation of a tree sensitive design for the project;
- The type of construction works being proposed around the trees and their associated methodologies,
- The impact these works may have on the trees and;
- How best to limit construction impact during and after the construction and development phase – refer *Section 7. Preliminary Tree Retention Guidelines* for further detail.

8.4 Consideration needs to be given to the specialised nature of the tree management and remedial works contained within this report which; if undertaken or specified incorrectly, may have a negative effect on tree health and/or structure. It is imperative that only arboricultural organisations with staff suitably qualified and experienced in tree management and/or tree preservation are engaged in monitoring, maintaining, and managing the trees into the future. Any further recommendations made should be specified by an (minimum) Australian Qualification Framework Level 5 Arborist (AQF 5 – *Diploma in Arboriculture*); in keeping with the Australian Standards AS 4970 '*Protection of Trees on Development Sites*' 2009 & AS 4373 '*Pruning of Amenity Trees*' 2007 and be approved prior to commencement by the Arboriculturist.



9. Recommendations

9.1 Continuing Arboricultural Inputs into the Project

That an ongoing, collaborative Arboricultural review and refinement of the proposed design and work methodology(s), is undertaken by the Arboriculturist in conjunction with the relevant professions prior to finalisation of documentation.

This review is to develop and implement tree sensitive designs, management and remedial requirements that will be required where works are proposed to occur/encroach within the “Specified” TPZ of trees identified for retention.

9.2 Significant Trees

That a high priority be afforded to achieving the retention and protection of the significant native and indigenous veteran tree population currently growing on site by;

- Developing concept and final designs to accommodate the significant trees/stands of trees within the site design and;
- Ensuring the trees identified for retention receive appropriate levels of Arboricultural inputs prior to, during and; post project works, to ensure their successful retention and longevity.

9.3 Relocation/salvaging of Grass Trees

That the several mature *Xanthorrhoea sp.* (Grass Tree) specimens within the site be considered for protection and/or relocation within and/or externally to the site.

9.4 Consideration given to investigations into noted tree decline

That consideration be given to undertaking further investigations at specific locations within the development site, with regard to assessing and better understanding soil quality and potential soil issues to determine whether remediation works may be required.



10. References & Reading

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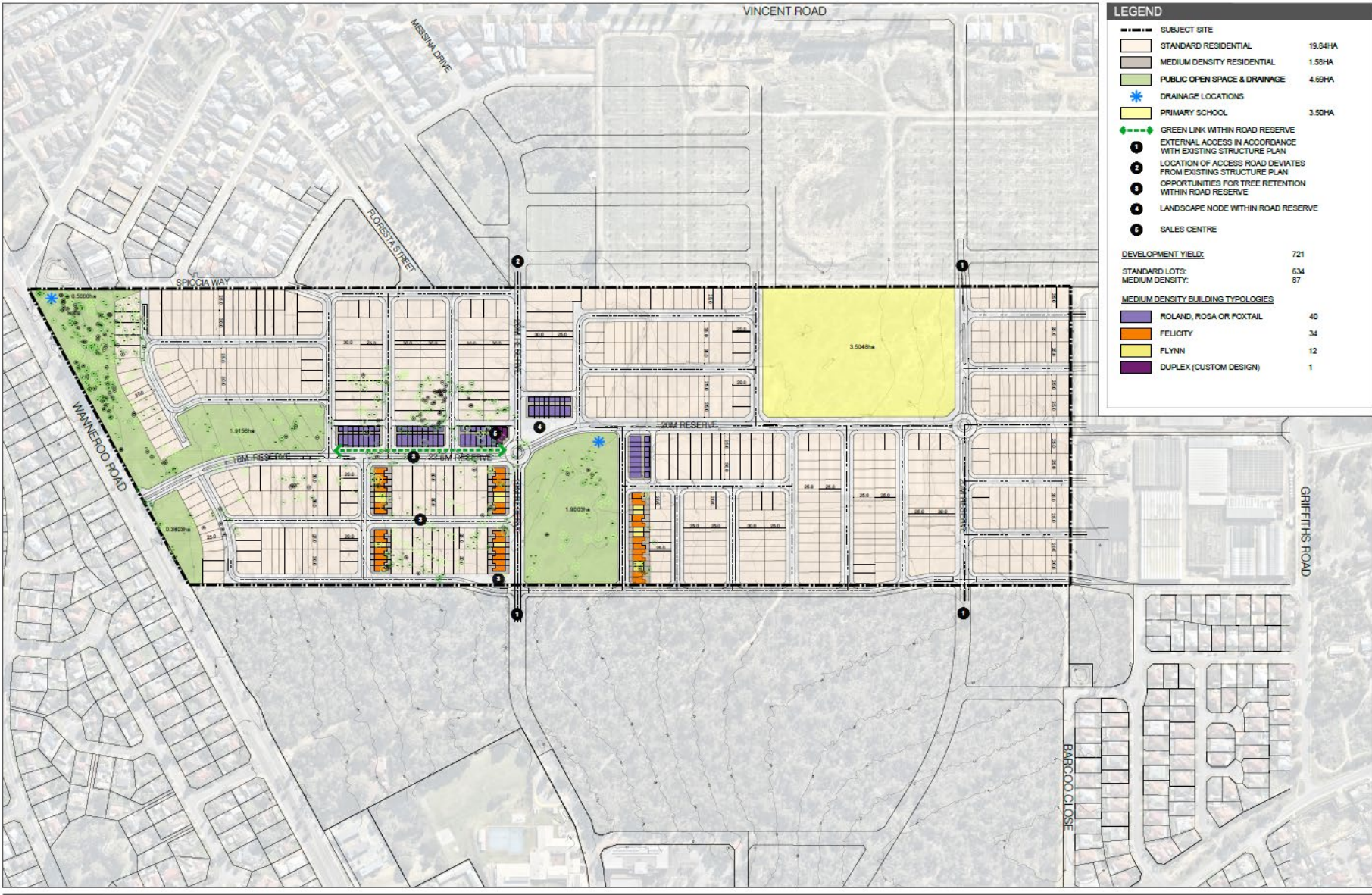
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Standards Australia, 2009, *Australian Standard AS4970: Protection of Trees on Development Sites*, Standards Australia, Sydney, Australia



Appendix A: Tree Location Image (URBIS /McMullen Nolan Group)



Preliminary Concept Plan
Lot 1665 Wanneroo Road, Sinagra

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DATA SOURCE
MNG
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Client: Stockland
Project: Lot 1665 Wanneroo Road, Sinagra

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PROJECT NO: ND2271
DATE: 05.11.18
DRAWING NO: 03
REVISION: F
Scale: 1:2000 @ A1, 1:4000 @ A3

Appendix B – Table of Results

Field Definitions

Tree ID Number - States the individual tree identification number (previously surveyed, tagged and numbered (by McMullen Nolan Group))

Species Identification - States the genus, species and common name for each tree

Tree Height - Measured in meters taken from ground level to the highest point of the trees canopy

Canopy Spread - Measured in meters taken at the widest points of the trees canopy

Trunk Diameter - Accurate measurement of trunk diameter in millimetres. Measured at 1.4 meters above ground level for single stemmed trees; immediately below bifurcation in co-dominant stemmed trees or at ground level for multi stemmed trees

Tree Health: - States the health of the tree at the time of assessment. (Good, Acceptable, Questionable, Poor, Dead). Refer *Health and Structure Definitions* below for further explanation

Tree Structure: - States the structure of the tree at the time of assessment. (Good, Acceptable, Questionable, Poor) Refer *Health and Structure Definitions* below for further explanation

Age Status: - States the estimated age at the time of assessment. (Juvenile, Semi Mature, Mature, Post Mature)

Tree Protection Zone (TPZ) Radius: - Minimum root zone required to be protected during construction, development or during any activities that may encroach into the zone which may cause harm or injure the tree and its parts. Measured in meters, as a **radius** from centre of trunk. Calculated as: $x12 \text{ DBH}$. *Note:- TPZ is to not be <2 meters and; not >15 meters. As per Australian Standards AS 4970 "Protection of trees on development sites" 2009.*



Structural Root Zone (SRZ) Radius - Root zone required for **tree stability only**. Measured in meters, as a **radius** from centre of trunk. Calculated as: - $(\text{Diameter} \times 50)^{0.42} \times 0.64$. (For trees with a diameter less than 150mm the SRZ is 1.5 meter radius - Palms and Monocots are excluded from SRZ Formula). As per Australian Standards AS 4970 "Protection of trees on development sites" 2009

Useful Life Expectancy: - Provides estimation of the individual trees remaining Useful Life Expectancy (ULE) (<5 Years, 5 – 10 years, 10 – 40 years, or 40+).

Observations & Comments: - Provides general information relevant for the individual specimen

Preliminary Recommendation: Provides preliminary recommendations for the assessed specimens re: replace, retain, or seek further Arboricultural advice, considering the proposed development for the site.



Health and Structure Definitions

Tree Health	
Good	Tree displays typical foliage size, colouration and density for a specimen of the species. Seasonal stem elongation and wound wood response also appears typical. A build-up of seasonal deadwood may be present.
Acceptable	Tree displays typical foliage size and colouration. Canopy mass may be slightly thin or have more than typical amount of deadwood present within canopy. Seasonal stem elongation and wound wood response may be inhibited. Tree may be displaying a response to recently changed environs.
Questionable	Tree displays less than typical foliage size, colouration and density for a specimen of the species. Large sections of deadwood may be evident in upper canopy. Seasonal stem elongation and wound wood response may be suppressed. Retention of the tree requires remedial works in order for the specimen to become "Acceptable".
Poor	Tree canopy indicates decline. Tree displays less than 30% live canopy mass and will be problematic to long term retention. Beginning of spiral of decline. Remedial works unlikely to improve tree health.
Dead	Tree has no living conductive tissue within its main stem.

Tree Structure	
Good	Primary frame work has structure that is typical of the species at its stage of maturity. Secondary (and beyond) branch attachments are typical of the species. The tree may have inconsequential/minor imperfections.
Acceptable	Primary frame work has structure that is typical of the species at its stage of maturity, but which presents defects that may need to be monitored. Secondary (and beyond) branch attachment are typical of the species, but presents structural defects that may require remedial work within the scope of ongoing maintenance. Can include storm damaged and Lopped trees that have developed acceptable branch attachment (subject to species).
Questionable	Primary and secondary frame work has evidence of its structural integrity being compromised (i.e.: Storm damage, deleterious pruning, breaks, cracks, fractures, included bark, major decay, poor branch taper etc.). Retention of the tree requires remedial works in order for the specimen to become "Acceptable".
Poor	Tree displays significant structural defects that will be problematic to long term retention. i.e.: extensive stem cavities, split/broken unions. Remedial works unlikely to improve form.

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Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
P.O.S. 1													
AC101	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	15	18	0.600	Good	Acceptable	Mature	7.200	2.670	40+ Years	Reasonable specimen; previous branch failures noted throughout canopy; basal suckers noted; not marked on MNG survey tagged by Arbor Centre as 101 (circled tag)	Retain
AC102	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	15	11	0.450	Good	Questionable	Mature	5.400	2.366	40+ Years	Basal suckers noted; deadwood noted canopy throughout; canopy suppression noted; not marked on MNG survey; tagged by Arbor Centre as 102 (circled tag)	Retain
360	<i>Eucalyptus conferruminata</i>	Bushy Yate	6	10	0.920	Acceptable	Acceptable	Mature	11.040	3.195	10-40 Years	Reasonable specimen; multi stemmed form; previous poor pruning noted; deadwood noted throughout canopy; tree has habitat value for native fauna; basal wounding noted; adjacent LV power	Retain
415	<i>Eucalyptus conferruminata</i>	Bushy Yate	6	7	0.810	Acceptable	Questionable	Mature	9.720	3.029	10-40 Years	Basal wounding noted; previous lopped; previous branch failures; multi stemmed form	Retain
338	<i>Callistemon viminalis</i>	Bottlebrush	5	6	0.700	Good	Acceptable	Mature	8.400	2.849	10-40 Years	Canopy previously lopped; previous branch failures noted throughout canopy; adjacent HV power infrastructure	Retain
417	<i>Agonis flexuosa</i>	WA Weeping Peppermint	11	12	1.200	Good	Questionable	Mature	14.400	3.573	10-40 Years	Canopy previously lopped; adjacent building	Retain
356	<i>Corymbia calophylla</i>	Marri	20	21	0.800	Acceptable	Acceptable	Mature	9.600	3.013	10-40 Years	Reasonable specimen; deadwood and previous branch failures to 400mm noted throughout canopy; canopy slightly sparse	Retain
330	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	18	25	1.030	Good	Acceptable	Mature	12.360	3.351	40+ Years	Previous branch failures and rubbing crossing stems noted throughout canopy; leggy form; tagged by MNG as '330' but not marked on MNG survey;	Retain
395	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	6	6	0.320	Questionable	Questionable	Mature	3.840	2.051	<5 Years	Canopy indicates decline; significant wounding noted on main stem; canopy suppression noted; deadwood noted throughout canopy	Seek further arboricultural advice
407	<i>Callistemon viminalis</i>	Bottlebrush	4	5	0.700	Acceptable	Acceptable	Mature	8.400	2.849	10-40 Years	Reasonable specimen; canopy previously lopped; adjacent HV power infrastructure	Retain
402	<i>Melaleuca nesophila</i>	Showy Honey Myrtle	3	4	0.250	Acceptable	Acceptable	Mature	3.000	1.849	5-10 Years	Multi stemmed form; previously lopped; canopy suppression noted	Retain
375	<i>Callistemon viminalis</i>	Bottlebrush	5	7	0.800	Good	Acceptable	Mature	9.600	3.013	10-40 Years	Multi stemmed form; previous branch failures noted; canopy suppression noted; adjacent HV power infrastructure	Retain
384	<i>Eucalyptus leucoxylon</i>	South Aust. Blue Gum	8	10	0.360	Acceptable	Acceptable	Mature	4.320	2.155	10-40 Years	Bifurcates at 1.4m; canopy suppression noted	Retain
383	<i>Corymbia ficifolia</i>	WA Red Flowering Gum	8	10	0.470	Good	Acceptable	Mature	5.640	2.410	40+ Years	Reasonable specimen; basal suckers noted; canopy suppression noted; previous HV pruning undertaken; adjacent HV power infrastructure	Retain
328	<i>Lophostemon confertus</i>	Brisbane Box	8	6	0.470	Questionable	Questionable	Mature	5.640	2.410	10-40 Years	Canopy indicates decline; canopy previously lopped	Seek further arboricultural advice
220	<i>Casuarina cunninghamiana</i>	River She Oak	10	12	0.590	Good	Acceptable	Mature	7.080	2.652	40+ Years	Reasonable specimen; previous branch failures noted throughout canopy	Retain
294	<i>Casuarina cunninghamiana</i>	River She Oak	14	10	0.420	Good	Acceptable	Mature	5.040	2.299	10-40 Years	Reasonable specimen; canopy previously lopped	Retain
284	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	12	4	0.200	Good	Acceptable	Semi-Mature	2.400	1.683	40+ Years	Basal suckers noted	Retain
125	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	10	7	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Bifurcates at ground level; previous branch failures; leggy form;	Retain
233	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	1	6	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Bifurcates at ground level; previous branch failures; leggy form;	Retain
299	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	11	4	0.150	Good	Acceptable	Semi-Mature	2.000	1.500	40+ Years	Reasonable specimen; leggy form	Retain
217	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	16	20	0.900	Acceptable	Questionable	Mature	10.800	3.166	10-40 Years	Canopy previously lopped; canopy comprised of epicormic regrowth; tree displays leggy form	Seek further arboricultural advice
142	<i>Ficus microcarpa</i> var. <i>hillii</i>	Hills Weeping Fig	18	21	0.720	Good	Good	Mature	8.640	2.883	40+ Years	Good specimen	Retain
245	<i>Jacaranda mimosifolia</i>	Jacaranda	18	16	0.550	Good	Acceptable	Mature	6.600	2.575	40+ Years	Reasonable specimen; close proximity to building; major rubbing crossing stems noted throughout canopy	Retain
239	<i>Casuarina cunninghamiana</i>	River She Oak	10	3	0.160	Good	Acceptable	Semi-Mature	2.000	1.533	10-40 Years	Reasonable specimen	Retain
298	<i>Bauhinia x blakeana</i>	Hong Kong Orchid Tree	3	4	0.200	Questionable	Questionable	Mature	2.400	1.683	5-10 Years	Canopy indicates decline	Seek further arboricultural advice
240	<i>Tecoma repens</i>	Tecoma	4	5	1.000	Poor	Questionable	Post Mature	12.000	3.309	<5 Years	Canopy previously lopped	Seek further arboricultural advice
271	<i>Eriobotrya japonica</i>	Loquat	6	9	0.280	Good	Acceptable	Mature	3.360	1.939	10-40 Years	Canopy suppression noted; previous branch failures;	Retain
392	<i>Nerium oleander</i>	Oleander	3	6	1.500	Good	Acceptable	Mature	15.000	3.924	10-40 Years	Known Toxic plant	Seek further arboricultural advice
AC103	<i>Jacaranda mimosifolia</i>	Jacaranda	8	13	0.400	Good	Acceptable	Mature	4.800	2.252	10-40 Years	Reasonable specimen; bifurcates at 1.4m; not marked on MNG survey; tagged by Arbor Centre as '103' (circled tag)	Retain
78	<i>Corymbia calophylla</i>	Marri	9	10	0.220	Acceptable	Acceptable	Semi-Mature	2.640	1.752	40+ Years	Reasonable specimen; part of a stand of 2 trees	Retain
72	<i>Corymbia calophylla</i>	Marri	8	8	0.220	Good	Acceptable	Semi-Mature	2.640	1.752	10-40 Years	Reasonable specimen; part of a stand of 2 trees	Retain
84	<i>Corymbia calophylla</i>	Marri	9	11	0.340	Acceptable	Acceptable	Mature	4.080	2.104	40+ Years	Reasonable specimen	Retain



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
86	<i>Eucalyptus marginata</i>	Jarrah	10	10	0.700	Questionable	Questionable	Mature	8.400	2.849	40+ Years	Remnant tree; tree has habitat value for native fauna; basal wounding noted; wounding noted on main stem; canopy indicates decline	Seek further arboricultural advice
82	<i>Corymbia calophylla</i>	Marri	17	16	0.980	Good	Acceptable	Mature	11.760	3.281	40+ Years	Reasonable specimen; bifurcates at 1.8m; possible old stem failure at ground level; basal wounding noted	Retain
89	<i>Corymbia calophylla</i>	Marri	17	25	0.770	Good	Acceptable	Mature	9.240	2.965	40+ Years	Reasonable specimen; close proximity to building	Retain
98	<i>Corymbia calophylla</i>	Marri	12	7	0.330	Acceptable	Acceptable	Mature	3.960	2.077	40+ Years	Reasonable specimen; canopy slightly sparse; leggy form	Retain
71	<i>Corymbia calophylla</i>	Marri	15	13	0.580	Acceptable	Acceptable	Mature	6.960	2.633	40+ Years	Reasonable specimen; canopy slightly sparse	Retain
74	<i>Allocasuarina fraseriana</i>	Condil	15	11	0.660	Acceptable	Acceptable	Mature	7.920	2.779	10-40 Years	Bifurcates at 2m; wounding noted on main stem; deadwood noted throughout canopy	Retain
79	<i>Corymbia calophylla</i>	Marri	8	10	0.700	Acceptable	Acceptable	Mature	8.400	2.849	10-40 Years	Canopy starting to indicate decline; part of a stand of 4 trees; multi stemmed form	Retain
75	<i>Corymbia calophylla</i>	Marri	9	5	0.260	Acceptable	Acceptable	Mature	3.120	1.879	40+ Years	Part of stand of 3 trees	Retain
91	<i>Corymbia calophylla</i>	Marri	10	10	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Reasonable specimen; part of a stand of 3 trees	Retain
70	<i>Corymbia calophylla</i>	Marri	10	10	0.380	Good	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; part of a stand of 3 trees	Retain
96	<i>Corymbia calophylla</i>	Marri	7	3	0.150	Acceptable	Acceptable	Semi-Mature	2.000	1.500	10-40 Years	Reasonable specimen	Retain
202	<i>Corymbia calophylla</i>	Marri	17	11	0.420	Good	Good	Mature	5.040	2.299	40+ Years	Good specimen	Retain
85	<i>Corymbia calophylla</i>	Marri	20	15	0.600	Acceptable	Acceptable	Mature	7.200	2.670	10-40 Years	Leggy form; canopy suppression noted; canopy slightly sparse	Retain
87	<i>Corymbia calophylla</i>	Marri	19	16	0.450	Good	Good	Mature	5.400	2.366	40+ Years	Good specimen	Retain
201	<i>Corymbia calophylla</i>	Marri	6	4	0.150	Acceptable	Acceptable	Semi-Mature	2.000	1.500	5-10 Years	Canopy suppression noted; tree displays leggy form	Retain
212	<i>Callistemon viminalis</i>	Bottlebrush	4	5	0.200	Good	Acceptable	Mature	2.400	1.683	10-40 Years	Reasonable specimen; adjacent building	Retain
99	<i>Eucalyptus marginata</i>	Jarrah	6	6	0.860	Questionable	Questionable	Post Mature	10.320	3.106	10-40 Years	Remnant tree; tree has habitat value for native fauna; basal wounding noted; deadwood noted throughout canopy; fire damage noted; bifurcates at ground level; wounding noted on main stem; canopy indicates decline;	Seek further arboricultural advice
213	<i>Allocasuarina fraseriana</i>	Condil	13	10	1.000	Questionable	Questionable	Mature	12.000	3.309	5-10 Years	previous branch failures noted throughout canopy	Seek further arboricultural advice
203	<i>Allocasuarina fraseriana</i>	Condil	11	8	0.470	Acceptable	Acceptable	Mature	5.640	2.410	10-40 Years	Basal wounding noted; wounding noted on main stem; part of a stand of 2 trees	Retain
210	<i>Allocasuarina fraseriana</i>	Condil	7	3	0.220	Dead	Questionable	Mature	2.640	1.752		Dead tree	Seek further arboricultural advice
77	<i>Corymbia calophylla</i>	Marri	10	13	0.320	Good	Acceptable	Mature	3.840	2.051	40+ Years	Reasonable specimen; canopy suppression noted	Retain
76	<i>Corymbia calophylla</i>	Marri	15	15	0.540	Good	Acceptable	Mature	6.480	2.555	40+ Years	Reasonable specimen; canopy suppression noted	Retain
92	<i>Corymbia calophylla</i>	Marri	10	5	0.200	Acceptable	Questionable	Mature	2.400	1.683	10-40 Years	Canopy suppression noted; tree displays leggy form	Seek further arboricultural advice
206	<i>Corymbia calophylla</i>	Marri	16	14	0.370	Good	Acceptable	Mature	4.440	2.180	40+ Years	Reasonable specimen; bifurcates at 4m	Retain
81	<i>Corymbia calophylla</i>	Marri	13	8	0.300	Good	Questionable	Mature	3.600	1.996	10-40 Years	Previous branch failures noted throughout canopy; leggy form	Seek further arboricultural advice
90	<i>Corymbia calophylla</i>	Marri	10	6	0.250	Acceptable	Acceptable	Mature	3.000	1.849	10-40 Years	Basal wounding noted; canopy suppression noted; juvenile Marri noted at base; hanging branch in canopy	Retain
207	<i>Corymbia calophylla</i>	Marri	18	20	0.850	Good	Acceptable	Mature	10.200	3.091	40+ Years	Reasonable specimen; bifurcates at ground level; deadwood and previous branch failures noted throughout canopy	Retain
89	<i>Corymbia calophylla</i>	Marri	9	5	0.200	Acceptable	Acceptable	Semi-Mature	2.400	1.683	40+ Years	Canopy suppression noted	Retain
83	<i>Allocasuarina fraseriana</i>	Condil	8	6	0.260	Dead	Questionable	Mature	3.120	1.879		Dead tree	Seek further arboricultural advice
208	<i>Eucalyptus marginata</i>	Jarrah	3	2	0.080	Good	Acceptable	Juvenile	2.000	1.500	40+ Years	Juvenile specimen	Retain
209	<i>Eucalyptus marginata</i>	Jarrah	5	5	0.200	Good	Good	Semi-Mature	2.400	1.683	40+ Years	Reasonable specimen; Western Power stay wire rubbing trunk; canopy suppression noted	Retain
204	<i>Corymbia calophylla</i>	Marri	10	8	0.280	Good	Acceptable	Semi-Mature	3.360	1.939	40+ Years	Reasonable specimen; canopy suppression noted	Retain
214	<i>Eucalyptus marginata</i>	Jarrah	13	7	0.910	Questionable	Questionable	Post Mature	10.920	3.181	40+ Years	Basal wounding noted; fire damage noted; previous branch failures; old remnant tree;	Seek further arboricultural advice
211	<i>Allocasuarina fraseriana</i>	Condil	8	5	0.280	Questionable	Questionable	Mature	3.360	1.939	5-10 Years	Canopy starting to indicate decline; canopy suppression noted	Seek further arboricultural advice
205	<i>Corymbia calophylla</i>	Marri	16	8	0.330	Acceptable	Acceptable	Mature	3.960	2.077	40+ Years	Reasonable specimen; leggy form	Retain
73	<i>Corymbia calophylla</i>	Marri	14	5	0.260	Acceptable	Acceptable	Mature	3.120	1.879	40+ Years	Basal wounding noted; leggy form	Retain
80	<i>Corymbia calophylla</i>	Marri	9	5	0.200	Acceptable	Questionable	Semi-Mature	2.400	1.683	40+ Years	Wounding noted on main stem; canopy suppression noted	Seek further arboricultural advice
95	<i>Corymbia calophylla</i>	Marri	11	7	0.270	Acceptable	Acceptable	Mature	3.240	1.910	40+ Years	Reasonable specimen	Retain
97	<i>Corymbia calophylla</i>	Marri	4	4	0.150	Good	Acceptable	Semi-Mature	2.000	1.500	40+ Years	Reasonable specimen	Retain
94	<i>Corymbia calophylla</i>	Marri	3	4	0.100	Acceptable	Acceptable	Juvenile	2.000	1.500	40+ Years	Reasonable Juvenile specimen; canopy suppression noted	Retain
9	<i>Corymbia calophylla</i>	Marri	14	7	0.280	Good	Acceptable	Mature	3.360	1.939	40+ Years	Canopy suppression noted	Retain
24	<i>Corymbia calophylla</i>	Marri	14	10	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Reasonable specimen	Retain
93	<i>Allocasuarina fraseriana</i>	Condil	5	8	0.320	Acceptable	Acceptable	Mature	3.840	2.051	10-40 Years	Basal wounding noted; canopy suppression noted	Retain
68	<i>Corymbia calophylla</i>	Marri	14	9	0.390	Acceptable	Acceptable	Mature	4.680	2.228	40+ Years	Canopy suppression noted	Retain
67	<i>Corymbia calophylla</i>	Marri	8	7	0.230	Acceptable	Acceptable	Mature	2.760	1.785	40+ Years	Canopy suppression noted	Retain
64	<i>Corymbia calophylla</i>	Marri	15	10	0.320	Acceptable	Acceptable	Mature	3.840	2.051	40+ Years	Reasonable specimen; leggy form	Retain
6	<i>Corymbia calophylla</i>	Marri	16	11	0.490	Good	Good	Mature	5.880	2.453	40+ Years	Reasonable specimen; leggy form	Retain
14	<i>Corymbia calophylla</i>	Marri	8	4	0.220	Acceptable	Acceptable	Mature	2.640	1.752	10-40 Years	Canopy suppression noted; leggy form	Retain
57	<i>Corymbia calophylla</i>	Marri	18	17	0.500	Good	Acceptable	Mature	6.000	2.474	40+ Years	Reasonable specimen	Retain



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
37	<i>Corymbia calophylla</i>	Marri	17	15	0.420	Good	Acceptable	Mature	5.040	2.299	40+ Years	Reasonable specimen; canopy suppression noted; deadwood noted throughout canopy	Retain
58	<i>Corymbia calophylla</i>	Marri	7	7	0.220	Acceptable	Acceptable	Semi-Mature	2.640	1.752	40+ Years	Canopy suppression noted	Retain
59	<i>Corymbia calophylla</i>	Marri	6	6	0.290	Good	Acceptable	Mature	3.480	1.968	10-40 Years	Wounding noted on main stem; canopy suppression noted	Retain
40	<i>Corymbia calophylla</i>	Marri	15	13	0.430	Good	Acceptable	Mature	5.160	2.322	40+ Years	Bifurcates at 2m; canopy suppression noted	Retain
4	<i>Corymbia calophylla</i>	Marri	10	7	0.290	Good	Acceptable	Mature	3.480	1.968	40+ Years	Tree located adjacent HV power infrastructure	Retain
43	<i>Corymbia calophylla</i>	Marri	11	4	0.220	Good	Acceptable	Mature	2.640	1.752	40+ Years	Canopy suppression noted	Retain
5	<i>Corymbia calophylla</i>	Marri	12	5	0.290	Good	Acceptable	Mature	3.480	1.968	40+ Years	Wounding noted on main stem at 5 meters; previous branch failures noted throughout canopy; canopy suppression noted	Retain
18	<i>Corymbia calophylla</i>	Marri	12	9	0.290	Good	Acceptable	Mature	3.480	1.968	40+ Years	Reasonable specimen; canopy suppression noted	Retain
35	<i>Corymbia calophylla</i>	Marri	17	10	0.430	Good	Good	Mature	5.160	2.322	40+ Years	Reasonable specimen; canopy suppression noted	Retain
36	<i>Corymbia calophylla</i>	Marri	15	10	0.430	Good	Acceptable	Mature	5.160	2.322	40+ Years	Reasonable specimen; canopy suppression noted	Retain
16	<i>Corymbia calophylla</i>	Marri	10	11	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Reasonable specimen; bifurcates at 4m; canopy suppression noted	Retain
38	<i>Eucalyptus marginata</i>	Jarra	16	15	0.810	Acceptable	Acceptable	Mature	9.720	3.029	40+ Years	Wounding noted on main stem; deadwood noted throughout canopy; canopy suppression noted	Retain
7	<i>Corymbia calophylla</i>	Marri	10	12	0.340	Acceptable	Acceptable	Mature	4.080	2.104	40+ Years	Canopy suppression noted	Retain
46	<i>Corymbia calophylla</i>	Marri	15	10	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Reasonable specimen; leggy form	Retain
53	<i>Corymbia calophylla</i>	Marri	14	11	0.320	Acceptable	Acceptable	Mature	3.840	2.051	40+ Years	Reasonable specimen; canopy suppression noted	Retain
41	<i>Corymbia calophylla</i>	Marri	3	2	0.070	Good	Acceptable	Juvenile	2.000	1.500	40+ Years	Juvenile specimen	Retain
30	<i>Corymbia calophylla</i>	Marri	15	13	0.380	Acceptable	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; deadwood noted at base of trunk	Retain
33	<i>Corymbia calophylla</i>	Marri	16	13	0.470	Good	Acceptable	Mature	5.640	2.410	40+ Years	reasonable specimen; canopy suppression noted	Retain
49	<i>Corymbia calophylla</i>	Marri	15	10	0.400	Good	Acceptable	Mature	4.800	2.252	40+ Years	Reasonable specimen; canopy suppression noted	Retain
55	<i>Corymbia calophylla</i>	Marri	16	16	0.570	Good	Acceptable	Mature	6.840	2.613	40+ Years	Reasonable specimen; wounding noted on main stem; canopy suppression noted	Retain
23	<i>Corymbia calophylla</i>	Marri	13	11	0.370	Acceptable	Acceptable	Mature	4.440	2.180	40+ Years	evidence of Marri Canker ; wounding noted on main stem	Seek further arboricultural advice
32	<i>Corymbia calophylla</i>	Marri	13	7	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Canopy suppression noted	Retain
12	<i>Corymbia calophylla</i>	Marri	12	10	0.280	Good	Acceptable	Mature	3.360	1.939	40+ Years	Reasonable specimen; leggy form	Retain
25	<i>Corymbia calophylla</i>	Marri	16	10	0.370	Good	Good	Mature	4.440	2.180	40+ Years	Reasonable specimen; leggy form	Retain
47	<i>Corymbia calophylla</i>	Marri	17	10	0.380	Good	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; basal wounding noted	Retain
17	<i>Corymbia calophylla</i>	Marri	15	11	0.400	Acceptable	Acceptable	Mature	4.800	2.252	40+ Years	Canopy suppression noted	Retain
34	<i>Corymbia calophylla</i>	Marri	4	5	0.220	Acceptable	Acceptable	Semi-Mature	2.640	1.752	40+ Years	Canopy suppression noted	Retain
51	<i>Corymbia calophylla</i>	Marri	16	16	0.540	Good	Good	Mature	6.480	2.555	40+ Years	Good specimen	Retain
28	<i>Corymbia calophylla</i>	Marri	15	12	0.440	Acceptable	Acceptable	Mature	5.280	2.344	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
20	<i>Corymbia calophylla</i>	Marri	15	7	0.310	Acceptable	Acceptable	Mature	3.720	2.024	40+ Years	Leggy form	Retain
31	<i>Corymbia calophylla</i>	Marri	14	15	0.340	Acceptable	Acceptable	Mature	4.080	2.104	40+ Years	Reasonable specimen; leggy form; close proximity to adjacent banksia	Retain
65	<i>Banksia grandis</i>	Bull Banksia	8	10	0.310	Good	Acceptable	Mature	3.720	2.024	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna; close proximity to adjacent Marri	Retain
66	<i>Corymbia calophylla</i>	Marri	16	9	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Reasonable specimen; leggy form	Retain
60	<i>Corymbia calophylla</i>	Marri	9	7	0.220	Acceptable	Acceptable	Mature	2.640	1.752	40+ Years	Bifurcates at 2m; canopy suppression noted	Retain
42	<i>Corymbia calophylla</i>	Marri	8	6	0.240	Acceptable	Acceptable	Mature	2.880	1.817	40+ Years	Canopy suppression noted; leggy form	Retain
13	<i>Corymbia calophylla</i>	Marri	7	6	0.250	Acceptable	Acceptable	Mature	3.000	1.849	40+ Years	Canopy slightly sparse; leggy form	Retain
21	<i>Corymbia calophylla</i>	Marri	17	11	0.900	Good	Acceptable	Mature	10.800	3.166	40+ Years	Reasonable specimen; bifurcates at ground level; other stem tagged as tree 39	Retain
2	<i>Corymbia calophylla</i>	Marri	11	10	0.310	Good	Acceptable	Mature	3.720	2.024	40+ Years	Reasonable specimen	Retain
48	<i>Corymbia calophylla</i>	Marri	13	9	0.280	Acceptable	Acceptable	Mature	3.360	1.939	40+ Years	Reasonable specimen	Retain
15	<i>Corymbia calophylla</i>	Marri	16	9	0.360	Good	Acceptable	Mature	4.320	2.155	10-40 Years	Reasonable specimen	Retain
112	<i>Corymbia calophylla</i>	Marri	5	4	0.150	Good	Acceptable	Semi-Mature	2.000	1.500	40+ Years	Canopy suppression noted	Retain
62	<i>Corymbia calophylla</i>	Marri	17	11	0.370	Good	Acceptable	Mature	4.440	2.180	40+ Years	Good specimen	Retain
52	<i>Corymbia calophylla</i>	Marri	12	11	0.350	Acceptable	Acceptable	Mature	4.200	2.129	40+ Years	Leggy form	Retain
61	<i>Corymbia calophylla</i>	Marri	5	4	0.180	Good	Acceptable	Semi-Mature	2.160	1.611	40+ Years	Leggy form	Retain
27	<i>Eucalyptus marginata</i>	Jarra	13	9	0.550	Dead	Questionable	Mature	6.600	2.575		Dead tree; previously failed stems caught in adjacent tree	Seek further arboricultural advice
11	<i>Eucalyptus marginata</i>	Jarra	8	10	0.960	Poor	Questionable	Post Mature	11.520	3.253	<5 Years	Canopy indicates decline; Basal wounding noted; fire damage noted ;major deadwood noted throughout canopy	Seek further arboricultural advice
1	<i>Corymbia calophylla</i>	Marri	16	10	0.340	Acceptable	Acceptable	Mature	4.080	2.104	10-40 Years	Canopy suppression noted	Retain
49	<i>Corymbia calophylla</i>	Marri	17	11	0.410	Good	Acceptable	Mature	4.920	2.276	40+ Years	Reasonable specimen; close proximity to Tree 26	Retain
26	<i>Corymbia calophylla</i>	Marri	7	8	0.220	Good	Acceptable	Mature	2.640	1.752	40+ Years	Canopy suppression noted; close proximity to tree 49	Retain
232	<i>Eucalyptus marginata</i>	Jarra	14	13	0.650	Acceptable	Acceptable	Mature	7.800	2.762	10-40 Years	Reasonable specimen; canopy slightly sparse; deadwood noted throughout canopy; tree has habitat value for Inative fauna	Retain



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
143	<i>Eucalyptus marginata</i>	Jarrah	16	20	0.730	Acceptable	Questionable	Mature	8.760	2.900	40+ Years	Tree has habitat value for native fauna; deadwood noted throughout canopy; fire damage noted	Seek further arboricultural advice
155	<i>Corymbia calophylla</i>	Marri	14	14	0.350	Acceptable	Acceptable	Mature	4.200	2.129	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
101	<i>Eucalyptus marginata</i>	Jarrah	14	12	0.750	Dead	Poor	Mature	9.000	2.933		Dead tree	Seek further arboricultural advice
154	<i>Eucalyptus marginata</i>	Jarrah	13	15	0.800	Poor	Questionable	Post Mature	9.600	3.013	5-10 Years	Basal wounding noted; deadwood noted; fire damage noted; tree has habitat value for native fauna	Seek further arboricultural advice
156	<i>Corymbia calophylla</i>	Marri	17	13	0.480	Good	Acceptable	Mature	5.760	2.431	40+ Years	Reasonable specimen	Retain
157	<i>Corymbia calophylla</i>	Marri	10	10	1.300	Dead	Questionable	Mature	15.000	3.695		Dead tree; multi stemmed form	Seek further arboricultural advice
114	<i>Corymbia calophylla</i>	Marri	10	4	0.170	Acceptable	Acceptable	Mature	2.040	1.572	40+ Years	Leggy form; canopy suppression noted	Retain
123	<i>Corymbia calophylla</i>	Marri	16	9	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Leggy form	Retain
187	<i>Corymbia calophylla</i>	Marri	7	4	0.180	Acceptable	Acceptable	Semi-Mature	2.160	1.611	40+ Years	Canopy suppression noted; leggy form	Retain
100	<i>Corymbia calophylla</i>	Marri	12	9	0.230	Acceptable	Acceptable	Mature	2.760	1.785	40+ Years	Leggy form; canopy suppression noted	Retain
8	<i>Banksia grandis</i>	Bull Banksia	6	7	0.280	Good	Acceptable	Mature	3.360	1.939	40+ Years	Reasonable specimen; canopy suppression noted	Retain
54	<i>Eucalyptus gomphocephala</i>	Tuart	24	22	0.950	Good	Acceptable	Mature	11.400	3.239	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna	Retain
56	<i>Corymbia calophylla</i>	Marri	16	16	0.590	Good	Good	Mature	7.080	2.652	40+ Years	Good specimen; close proximity to 54; canopy suppression noted	Retain
153	<i>Corymbia calophylla</i>	Marri	16	14	0.290	Acceptable	Acceptable	Mature	3.480	1.968	40+ Years	Reasonable specimen; leggy form	Retain
137	<i>Eucalyptus marginata</i>	Jarrah	11	9	0.450	Acceptable	Acceptable	Mature	5.400	2.366	10-40 Years	Deadwood and previous branch failures noted throughout canopy; fire damage noted	Retain
189	<i>Corymbia calophylla</i>	Marri	11	8	0.250	Acceptable	Acceptable	Mature	3.000	1.849	40+ Years	Canopy suppression noted	Retain
265	<i>Corymbia calophylla</i>	Marri	16	15	0.470	Good	Acceptable	Mature	5.640	2.410	40+ Years	Reasonable specimen; deadwood and previous branch failures noted throughout canopy	Retain
187	<i>Allocasuarina fraseriana</i>	Condil	13	8	0.430	Good	Acceptable	Mature	5.160	2.322	10-40 Years	Canopy suppression noted; basal wounding noted; wounding noted to main stem	Retain
181	<i>Allocasuarina fraseriana</i>	Condil	9	8	0.310	Questionable	Questionable	Mature	3.720	2.024	10-40 Years	Canopy indicates decline; basal wounding noted; canopy suppression noted	Seek further arboricultural advice
221	<i>Corymbia calophylla</i>	Marri	14	10	0.280	Acceptable	Acceptable	Mature	3.360	1.939	40+ Years	Tree displays leggy form; canopy suppression noted	Retain
191	<i>Corymbia calophylla</i>	Marri	14	9	0.390	Acceptable	Acceptable	Mature	4.680	2.228	40+ Years	Wounding noted on main stem; canopy starting to indicate decline; deadwood noted throughout canopy	Retain
276	<i>Eucalyptus marginata</i>	Jarrah	15	10	0.460	Acceptable	Acceptable	Mature	5.520	2.388	40+ Years	Canopy suppression noted; deadwood noted throughout canopy	Retain
264	<i>Eucalyptus marginata</i>	Jarrah	7	6	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Reasonable specimen	Retain
234	<i>Eucalyptus marginata</i>	Jarrah	13	10	0.510	Questionable	Acceptable	Mature	6.120	2.494	40+ Years	Wounding noted on main stem; deadwood and previous branch failures noted throughout canopy; canopy suppression noted	Retain
226	<i>Corymbia calophylla</i>	Marri	18	15	0.710	Good	Acceptable	Mature	8.520	2.866	40+ Years	Canopy suppression noted; basal wounding noted; rubbing crossing stems noted throughout canopy	Retain
292	<i>Corymbia calophylla</i>	Marri	20	21	0.650	Good	Good	Mature	7.800	2.762	40+ Years	Good specimen; deadwood noted throughout canopy	Retain
225	<i>Corymbia calophylla</i>	Marri	18	16	0.910	Good	Good	Mature	10.920	3.181	40+ Years	Bifurcates at 600mm; canopy suppression noted; deadwood and rubbing crossing stems noted throughout canopy	Retain
169	<i>Allocasuarina fraseriana</i>	Condil	4	6	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Bifurcates at 1.5m, inclusion noted; canopy suppression noted; wounding noted on main stem; deadwood noted throughout canopy	Retain
103	<i>Eucalyptus gomphocephala</i>	Tuart	6	10	1.500	Acceptable	Questionable	Mature	15.000	3.924	10-40 Years	Tree previously felled at 1m; canopy comprised of epicormic regrowth	Seek further arboricultural advice
175	<i>Eucalyptus gomphocephala</i>	Tuart	30	32	1.800	Good	Good	Mature	15.000	4.236	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna	Retain
194	<i>Allocasuarina fraseriana</i>	Condil	8	10	0.500	Dead	Questionable	Mature	6.000	2.474		Dead tree	Seek further arboricultural advice
126	<i>Eucalyptus gomphocephala</i>	Tuart	32	30	1.120	Good	Good	Mature	13.440	3.471	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna	Retain
151	<i>Corymbia calophylla</i>	Marri	8	7	0.270	Acceptable	Acceptable	Mature	3.240	1.910	40+ Years	Canopy suppression noted; previous branch failures noted throughout canopy	Retain
132	<i>Corymbia calophylla</i>	Marri	9	6	0.340	Dead	Questionable	Mature	4.080	2.104		Dead tree	Seek further arboricultural advice
134	<i>Corymbia calophylla</i>	Marri	10	9	0.260	Good	Acceptable	Mature	3.120	1.879	40+ Years	Basal wounding noted; canopy suppression noted	Retain
165	<i>Corymbia calophylla</i>	Marri	17	13	0.470	Good	Acceptable	Mature	5.640	2.410	40+ Years	Reasonable specimen; canopy suppression noted	Retain
145	<i>Corymbia calophylla</i>	Marri	8	6	0.200	Acceptable	Acceptable	Mature	2.400	1.683	40+ Years	Canopy suppression noted; minor deadwood noted	Retain
190	<i>Corymbia calophylla</i>	Marri	12	9	0.260	Good	Acceptable	Mature	3.120	1.879	40+ Years	Leggy form; canopy suppression noted	Retain
161	<i>Corymbia calophylla</i>	Marri	17	11	0.460	Acceptable	Acceptable	Mature	5.520	2.388	40+ Years	Canopy suppression noted; deadwood noted throughout canopy	Retain
177	<i>Eucalyptus marginata</i>	Jarrah	20	17	0.870	Good	Good	Mature	10.440	3.121	40+ Years	Reasonable specimen; remnant tree; previous branch failures noted throughout canopy; wounding noted on main stem; canopy suppression noted	Retain
166	<i>Corymbia calophylla</i>	Marri	5	4	0.120	Acceptable	Acceptable	Mature	2.000	1.500	10-40 Years	Canopy suppression noted	Retain
178	<i>Corymbia calophylla</i>	Marri	9	10	0.300	Good	Acceptable	Mature	3.600	1.996	40+ Years	Reasonable specimen; part of a stand of 3 trees; canopy suppression noted	Retain
171	<i>Corymbia calophylla</i>	Marri	12	8	0.400	Dead	Poor	Mature	4.800	2.252		Dead tree; spiral fractured noted on main stem	Seek further arboricultural advice
122	<i>Corymbia calophylla</i>	Marri	12	8	0.250	Good	Acceptable	Mature	3.000	1.849	40+ Years	Reasonable specimen	Retain
129	<i>Corymbia calophylla</i>	Marri	12	9	0.270	Good	Acceptable	Mature	3.240	1.910	40+ Years	Reasonable specimen	Retain
140	<i>Corymbia calophylla</i>	Marri	14	11	0.400	Good	Acceptable	Mature	4.800	2.252	40+ Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
138	<i>Corymbia calophylla</i>	Marri	11	8	0.300	Good	Acceptable	Mature	3.600	1.996	40+ Years	Reasonable specimen; bifurcates at ground level; adjacent tree 119 - marked as 2 separate trees	Retain



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
199	<i>Corymbia calophylla</i>	Marri	12	5	0.250	Good	Acceptable	Mature	3.000	1.849	40+ Years	Leggy form	Retain
168	<i>Corymbia calophylla</i>	Marri	10	11	0.700	Good	Acceptable	Mature	8.400	2.849	40+ Years	Multi stemmed form; deadwood noted throughout canopy; canopy suppression noted	Retain
176	<i>Corymbia calophylla</i>	Marri	14	10	0.350	Good	Acceptable	Mature	4.200	2.129	40+ Years	Leggy form; deadwood noted throughout canopy	Retain
135	<i>Corymbia calophylla</i>	Marri	13	11	0.800	Acceptable	Questionable	Mature	9.600	3.013	10-40 Years	Bifurcates at ground level; part of a stand of 2 trees; adjacent tree 147; canopy previously lopped; deadwood noted throughout canopy; adjacent HV power infrastructure	Retain
107	<i>Corymbia calophylla</i>	Marri	12	10	0.400	Good	Acceptable	Mature	4.800	2.252	40+ Years	Previous branch failures and deadwood noted throughout canopy	Retain
195	<i>Corymbia calophylla</i>	Marri	10	14	0.320	Acceptable	Acceptable	Mature	3.840	2.051	40+ Years	Tree si surrounded by juvenile Olive trees; deadwood noted throughout canopy	Retain
121	<i>Corymbia calophylla</i>	Marri	14	9	0.410	Questionable	Acceptable	Mature	4.920	2.276	10-40 Years	Canopy indicates decline ; deadwood noted throughout canopy	Seek further arboricultural advice
102	<i>Corymbia calophylla</i>	Marri	15	13	0.450	Acceptable	Acceptable	Mature	5.400	2.366	40+ Years	Deadwood noted throughout canopy	Retain
113	<i>Corymbia calophylla</i>	Marri	7	9	0.280	Acceptable	Acceptable	Mature	3.360	1.939	10-40 Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
148	<i>Corymbia calophylla</i>	Marri	15	15	0.470	Acceptable	Good	Mature	5.640	2.410	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
230	<i>Corymbia calophylla</i>	Marri	14	9	0.280	Good	Acceptable	Mature	3.360	1.939	40+ Years	Reasonable specimen	Retain
238	<i>Corymbia calophylla</i>	Marri	17	10	0.340	Good	Good	Mature	4.080	2.104	40+ Years	Reasonable specimen	Retain
297	<i>Corymbia calophylla</i>	Marri	14	8	0.250	Acceptable	Acceptable	Mature	3.000	1.849	40+ Years	Reasonable specimen	Retain
278	<i>Corymbia calophylla</i>	Marri	14	11	0.330	Acceptable	Good	Mature	3.960	2.077	40+ Years	Reasonable specimen	Retain
256	<i>Corymbia calophylla</i>	Marri	10	5	0.180	Good	Acceptable	Semi-Mature	2.160	1.611	40+ Years	Reasonable specimen; leggy form	Retain
279	<i>Corymbia calophylla</i>	Marri	14	10	0.260	Good	Acceptable	Mature	3.120	1.879	40+ Years	Reasonable specimen; canopy suppression noted	Retain
269	<i>Eucalyptus marginata</i>	Jarra	8	9	0.430	Acceptable	Acceptable	Mature	5.160	2.322	40+ Years	Wounding noted on main stem; fire damage noted; deadwood noted; canopy slightly sparse	Retain
229	<i>Corymbia calophylla</i>	Marri	11	8	0.250	Questionable	Acceptable	Mature	3.000	1.849	10-40 Years	Canopy starting to indicate decline; previous branch failure noted throughout canopy	Retain
174	<i>Corymbia calophylla</i>	Marri	12	9	0.280	Acceptable	Good	Mature	3.360	1.939	40+ Years	Reasonable specimen; canopy suppression noted	Retain
116	<i>Corymbia calophylla</i>	Marri	11	12	0.380	Acceptable	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; deadwood noted throughout canopy; canopy slightly sparse; canopy suppression noted	Retain
179	<i>Corymbia calophylla</i>	Marri	17	13	0.340	Acceptable	Acceptable	Mature	4.080	2.104	10-40 Years	Reasonable specimen; canopy starting to indicate decline; deadwood noted throughout canopy	Retain
180	<i>Corymbia calophylla</i>	Marri	9	7	0.240	Good	Acceptable	Mature	2.880	1.817	40+ Years	Canopy suppression noted	Retain
127	<i>Corymbia calophylla</i>	Marri	14	11	0.280	Good	Acceptable	Mature	3.360	1.939	40+ Years	Reasonable specimen	Retain
110	<i>Corymbia calophylla</i>	Marri	16	13	0.430	Acceptable	Questionable	Mature	5.160	2.322	40+ Years	Main stem previously failed; leggy form	Retain
109	<i>Corymbia calophylla</i>	Marri	20	17	0.450	Good	Acceptable	Mature	5.400	2.366	40+ Years	Reasonable specimen	Retain
118	<i>Corymbia calophylla</i>	Marri	14	8	0.300	Acceptable	Acceptable	Mature	3.600	1.996	10-40 Years	Previous branch failures and deadwood noted throughout canopy	Retain
261	<i>Eucalyptus marginata</i>	Jarra	16	15	0.510	Good	Acceptable	Mature	6.120	2.494	40+ Years	Reasonable specimen; basal wounding noted; fire damage noted	Retain
131	<i>Corymbia calophylla</i>	Marri	13	7	0.180	Acceptable	Acceptable	Mature	2.160	1.611	10-40 Years	Canopy slightly sparse; deadwood noted throughout canopy	Retain
173	<i>Corymbia calophylla</i>	Marri	8	5	0.210	Questionable	Questionable	Semi-Mature	2.520	1.718	10-40 Years	Main stem previously failed; canopy indicates decline	Seek further arboricultural advice
50	<i>Corymbia calophylla</i>	Marri	16	11	0.310	Good	Acceptable	Mature	3.720	2.024	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
22	<i>Corymbia calophylla</i>	Marri	18	10	0.320	Good	Acceptable	Mature	3.840	2.051	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
10	<i>Corymbia calophylla</i>	Marri	18	10	0.340	Good	Acceptable	Mature	4.080	2.104	40+ Years	Reasonable specimen; deadwood and previous branch failures noted throughout canopy	Retain
63	<i>Corymbia calophylla</i>	Marri	13	8	0.240	Acceptable	Acceptable	Mature	2.880	1.817	40+ Years	Canopy suppression noted	Retain
3	<i>Corymbia calophylla</i>	Marri	17	11	0.340	Acceptable	Acceptable	Mature	4.080	2.104	40+ Years	Reasonable specimen; canopy suppression noted	Retain
231	<i>Eucalyptus marginata</i>	Jarra	18	16	0.910	Acceptable	Acceptable	Mature	10.920	3.181	40+ Years	Bifurcates at 3m; basal wounding noted; canopy suppression noted; deadwood noted throughout canopy	Retain
287	<i>Corymbia calophylla</i>	Marri	11	5	0.210	Poor	Questionable	Mature	2.520	1.718	<5 Years	Canopy indicates decline	Seek further arboricultural advice
277	<i>Corymbia calophylla</i>	Marri	16	10	0.340	Good	Acceptable	Mature	4.080	2.104	40+ Years	Deadwood noted throughout canopy	Retain
293	<i>Corymbia calophylla</i>	Marri	17	15	0.310	Acceptable	Acceptable	Mature	3.720	2.024	40+ Years	Canopy suppression noted; previous branch failures and deadwood noted throughout canopy	Retain
182	<i>Eucalyptus marginata</i>	Jarra	14	13	0.550	Good	Acceptable	Mature	6.600	2.575	40+ Years	Reasonable specimen; bifurcates at 300mm; swelling noted at inclusion	Retain
128	<i>Corymbia calophylla</i>	Marri	5	4	0.140	Questionable	Questionable	Semi-Mature	2.000	1.500	5-10 Years	Canopy indicates decline; previous failure of main stem noted	Seek further arboricultural advice
163	<i>Corymbia calophylla</i>	Marri	20	13	0.370	Good	Acceptable	Mature	4.440	2.180	40+ Years	Reasonable specimen; bifurcates at 4m	Retain
172	<i>Corymbia calophylla</i>	Marri	17	9	0.320	Good	Acceptable	Mature	3.840	2.051	40+ Years	Canopy suppression noted	Retain
219	<i>Corymbia calophylla</i>	Marri	10	8	0.220	Acceptable	Acceptable	Mature	2.640	1.752	10-40 Years	Canopy suppression noted	Retain
247	<i>Corymbia calophylla</i>	Marri	18	12	0.360	Good	Acceptable	Mature	4.320	2.155	40+ Years	Reasonable specimen	Retain
263	<i>Corymbia calophylla</i>	Marri	11	8	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Canopy suppression noted	Retain
260	<i>Corymbia calophylla</i>	Marri	17	12	0.310	Good	Acceptable	Mature	3.720	2.024	40+ Years	Reasonable specimen; canopy suppression noted	Retain
241	<i>Allocasuarina fraseriana</i>	Condil	13	5	0.310	Questionable	Questionable	Mature	3.720	2.024	10-40 Years	Canopy starting to indicate decline; basal wounding noted; wounding noted on main stem; deadwood noted throughout canopy	Seek further arboricultural advice
743	<i>Corymbia calophylla</i>	Marri	13	6	0.210	Acceptable	Acceptable	Mature	2.520	1.718	40+ Years	Deadwood noted throughout canopy; leggy form;	Retain



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
744	<i>Corymbia calophylla</i>	Marri	18	6	0.210	Acceptable	Questionable	Mature	2.520	1.718	10-40 Years	Leggy form; canopy suppression noted	Seek further arboricultural advice
45	<i>Corymbia calophylla</i>	Marri	18	11	0.360	Good	Acceptable	Mature	4.320	2.155	40+ Years	Reasonable specimen; bifurcates at 6m; canopy suppression noted	Retain
19	<i>Corymbia calophylla</i>	Marri	20	12	0.370	Good	Acceptable	Mature	4.440	2.180	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
170	<i>Corymbia calophylla</i>	Marri	20	15	0.420	Good	Good	Mature	5.040	2.299	40+ Years	Reasonable specimen	Retain
162	<i>Corymbia calophylla</i>	Marri	12	6	0.270	Acceptable	Acceptable	Semi-Mature	3.240	1.910	10-40 Years	Canopy suppression noted	Retain
44	<i>Corymbia calophylla</i>	Marri	18	12	0.370	Good	Acceptable	Mature	4.440	2.180	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
745	<i>Corymbia calophylla</i>	Marri	18	12	0.380	Good	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
188	<i>Corymbia calophylla</i>	Marri	6	4	0.180	Questionable	Acceptable	Semi-Mature	2.160	1.611	10-40 Years	Canopy indicates decline; deadwood noted throughout canopy; canopy suppression noted	Retain
289	<i>Allocasuarina fraseriana</i>	Condil	11	7	0.350	Acceptable	Acceptable	Mature	4.200	2.129	10-40 Years	Wounding noted on main stem; canopy suppression noted	Retain
282	<i>Eucalyptus marginata</i>	Jarra	14	5	0.420	Acceptable	Acceptable	Mature	5.040	2.299	10-40 Years	Previous branch failures and deadwood noted throughout canopy; fire damage noted	Retain
164	<i>Corymbia calophylla</i>	Marri	18	10	0.300	Acceptable	Acceptable	Mature	3.600	1.996	40+ Years	Reasonable specimen	Retain
120	<i>Corymbia calophylla</i>	Marri	13	4	0.200	Questionable	Questionable	Mature	2.400	1.683	5-10 Years	Canopy indicates decline; canopy suppression noted; leggy form	Seek further arboricultural advice
105	<i>Corymbia calophylla</i>	Marri	10	2	0.180	Dead	Questionable	Mature	2.160	1.611		Dead tree	Seek further arboricultural advice
144	<i>Corymbia calophylla</i>	Marri	19	9	0.300	Good	Acceptable	Mature	3.600	1.996	10-40 Years	Reasonable specimen; leggy form	Retain
159	<i>Corymbia calophylla</i>	Marri	20	18	0.430	Good	Good	Mature	5.160	2.322	40+ Years	Good specimen	Retain
248	<i>Corymbia calophylla</i>	Marri	20	16	0.320	Acceptable	Acceptable	Mature	3.840	2.051	40+ Years	Reasonable specimen; bifurcates at 3m; canopy suppression noted	Retain
291	<i>Corymbia calophylla</i>	Marri	20	14	0.380	Good	Acceptable	Mature	4.560	2.204	40+ Years	Reasonable specimen; basal wounding noted; deadwood noted throughout canopy	Retain
106	<i>Corymbia calophylla</i>	Marri	19	15	0.460	Good	Acceptable	Mature	5.520	2.388	40+ Years	Reasonable specimen; canopy suppression noted	Retain
749	<i>Corymbia calophylla</i>	Marri	21	18	0.550	Good	Acceptable	Mature	6.600	2.575	40+ Years	Reasonable specimen; bifurcates at 5m	Retain
748	<i>Corymbia calophylla</i>	Marri	12	5	0.280	Dead	Questionable	Mature	3.360	1.939		Dead tree	Seek further arboricultural advice
747	<i>Corymbia calophylla</i>	Marri	14	7	0.230	Acceptable	Acceptable	Mature	2.760	1.785	10-40 Years	Deadwood noted within canopy	Retain
746	<i>Corymbia calophylla</i>	Marri	20	12	0.410	Good	Acceptable	Mature	4.920	2.276	40+ Years	Reasonable specimen	Retain
750	<i>Corymbia calophylla</i>	Marri	18	10	0.310	Acceptable	Acceptable	Mature	3.720	2.024	40+ Years	Reasonable specimen; leggy form	Retain
198	<i>Corymbia citriodora</i>	Lemon Scented Gum	13	15	0.340	Good	Good	Mature	4.080	2.104	40+ Years	Good specimen; canopy slightly sparse; located in road reserve well placed for retention	Seek further arboricultural advice
262	<i>Eucalyptus camaldulensis</i> var. <i>obtusata</i>	Northern River Red Gum	15	16	0.540	Acceptable	Questionable	Mature	6.480	2.555	10-40 Years	Canopy starting to indicate decline; previous branch failures noted throughout canopy	Seek further arboricultural advice
305	<i>Eucalyptus polyanthemos</i>	Red Box Gum	13	15	0.520	Good	Good	Mature	6.240	2.515	40+ Years	Good specimen	Retain
288	<i>Corymbia citriodora</i>	Lemon Scented Gum	15	15	0.440	Acceptable	Good	Mature	5.280	2.344	40+ Years	Reasonable specimen	Retain
300	<i>Corymbia citriodora</i>	Lemon Scented Gum	8	4	0.150	Questionable	Acceptable	Semi-Mature	2.000	1.500	5-10 Years	Canopy indicates decline; wounding noted on main stem	Seek further arboricultural advice
275	<i>Corymbia maculata</i>	Spotted Gum	15	12	0.460	Good	Good	Mature	5.520	2.388	40+ Years	Good specimen; minor damage to surface roots noted	Retain
254	<i>Corymbia maculata</i>	Spotted Gum	11	9	0.350	Acceptable	Good	Mature	4.200	2.129	40+ Years	Reasonable specimen; deadwood noted throughout canopy	Retain
227	<i>Eucalyptus camaldulensis</i> var. <i>obtusata</i>	Northern River Red Gum	17	22	0.770	Good	Acceptable	Mature	9.240	2.965	10-40 Years	Reasonable specimen; deadwood and previous branch failures noted throughout canopy; basal suckers noted; bird damage noted	Retain
237	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Northern River Red Gum	17	24	0.610	Good	Acceptable	Mature	7.320	2.689	10-40 Years	Reasonable specimen; previous significant branch failures and bird damage noted throughout canopy; leggy form ;	Seek further arboricultural advice
280	<i>Eucalyptus camaldulensis</i> var. <i>obtusata</i>	Northern River Red Gum	10	12	0.400	Good	Acceptable	Mature	4.800	2.252	10-40 Years	Good specimen; canopy suppression noted	Seek further arboricultural advice
312	<i>Corymbia citriodora</i>	Lemon Scented Gum	18	15	0.570	Questionable	Good	Mature	6.840	2.613	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
404	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	20	18	0.710	Good	Acceptable	Mature	8.520	2.866	10-40 Years	Reasonable specimen; canopy suppression noted; deadwood and rubbing crossing stems noted throughout canopy; leggy form	Retain
316	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	21	23	0.840	Good	Acceptable	Mature	10.080	3.076	10-40 Years	Bifurcates at 2m; canopy suppression noted; previous branch failures and deadwood noted throughout canopy	Retain
374	<i>Eucalyptus gomphocephala</i>	Tuart	21	22	1.200	Good	Acceptable	Mature	14.400	3.573	40+ Years	Reasonable specimen; canopy suppression noted; previous branch failures noted	Retain
314	<i>Eucalyptus gomphocephala</i>	Tuart	17	20	0.910	Good	Acceptable	Mature	10.920	3.181	40+ Years	Bifurcates at 2m; canopy suppression noted; deadwood noted	Retain
367	<i>Corymbia citriodora</i>	Lemon Scented Gum	19	20	0.460	Acceptable	Acceptable	Mature	5.520	2.388	40+ Years	Reasonable specimen; previous failure of main stem	Retain
372	<i>Allocasuarina fraseriana</i>	Condil	6	9	0.360	Questionable	Acceptable	Mature	4.320	2.155	5-10 Years	Canopy indicates decline; previous branch failures and terminal deadwood noted throughout canopy	Seek further arboricultural advice
354	<i>Corymbia calophylla</i>	Marri	19	22	0.600	Acceptable	Acceptable	Mature	7.200	2.670	40+ Years	Reasonable specimen; deadwood noted throughout canopy; canopy slightly sparse	Retain
351	<i>Allocasuarina fraseriana</i>	Condil	11	9	0.530	Good	Acceptable	Mature	6.360	2.535	10-40 Years	Reasonable specimen; deadwood noted throughout canopy	Retain
313	<i>Allocasuarina fraseriana</i>	Condil	5	6	0.400	Questionable	Acceptable	Mature	4.800	2.252	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
340	<i>Allocasuarina fraseriana</i>	Condil	6	6	0.320	Acceptable	Questionable	Mature	3.840	2.051	5-10 Years	Wounding noted on main stem; previous branch failures noted throughout canopy	Seek further arboricultural advice



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
396	<i>Allocasuarina fraseriana</i>	Condil	5	4	0.260	Acceptable	Acceptable	Mature	3.120	1.879	10-40 Years	Wounding noted on main stem	Retain
332	<i>Allocasuarina fraseriana</i>	Condil	10	10	0.500	Good	Acceptable	Mature	6.000	2.474	10-40 Years	Reasonable specimen; located adjacent 2x dead trees	Retain
AC104	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	9	8	0.330	Acceptable	Acceptable	Mature	3.960	2.077	10-40 Years	Canopy slightly sparse; deadwood noted throughout canopy; not marked on MNG survey; tagged by Arbor Centre as '104' (circled tag)	Seek further arboricultural advice
AC105	<i>Corymbia maculata</i>	Spotted Gum	18	15	0.410	Good	Good	Mature	4.920	2.276	40+ Years	Good specimen; not marked on MNG survey; tagged by Arbor Centre as '105' (circled tag)	Seek further arboricultural advice
AC108	<i>Eucalyptus camaldulensis</i> var. <i>obtusata</i>	Northern River Red Gum	6	8	0.480	Acceptable	Acceptable	Mature	5.760	2.431	10-40 Years	Deadwood and previous branch failures noted throughout canopy; not marked on MNG survey; tagged by Arbor Centre as '108' (circled tag)	Retain
AC106	<i>Eucalyptus gomphocephala</i>	Tuart	30	28	1.100	Good	Good	Mature	13.200	3.445	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna; not marked on MNG survey; tagged by Arbor Centre as '106' (circled tag)	Seek further arboricultural advice
AC107	<i>Eucalyptus gomphocephala</i>	Tuart	30	26	1.000	Good	Good	Mature	12.000	3.309	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna; not marked on MNG survey; tagged by Arbor Centre as '107' (circled tag)	Seek further arboricultural advice
742	<i>Corymbia calophylla</i>	Marri	19	12	0.430	Good	Good	Mature	5.160	2.322	40+ Years	Reasonable specimen; damage to surface roots noted	Retain
370	<i>Corymbia calophylla</i>	Marri	18	17	0.520	Good	Acceptable	Mature	6.240	2.515	10-40 Years	Tree has habitat value for native fauna; previous branch failures noted throughout canopy; leggy form	Retain
324	<i>Eucalyptus gomphocephala</i>	Tuart	25	26	1.600	Acceptable	Acceptable	Mature	15.000	4.032	40+ Years	Remnant tree; basal wounding noted; fire damage noted; deadwood and previous branch failures noted throughout canopy; tree has habitat value for native fauna	Seek further arboricultural advice
362	<i>Allocasuarina fraseriana</i>	Condil	6	8	0.440	Questionable	Questionable	Mature	5.280	2.344	<5 Years	Canopy indicates decline	Seek further arboricultural advice
301	<i>Allocasuarina fraseriana</i>	Condil	6	7	0.370	Acceptable	Questionable	Mature	4.440	2.180	5-10 Years	Bifurcates at 2.5m; wounding noted on main stem; canopy suppression noted	Retain
0	<i>Allocasuarina fraseriana</i>	Condil	8	6	0.370	Acceptable	Questionable	Mature	4.440	2.180	5-10 Years	Canopy suppression noted	Retain
364	<i>Allocasuarina fraseriana</i>	Condil	8	6	0.370	Poor	Questionable	Mature	4.440	2.180	<5 Years	Canopy indicates decline; part of a stand of 2 trees	Seek further arboricultural advice
346	<i>Allocasuarina fraseriana</i>	Condil	8	8	0.360	Acceptable	Acceptable	Mature	4.320	2.155	5-10 Years	Wounding noted on main stem	Retain
319	<i>Allocasuarina fraseriana</i>	Condil	8	7	0.370	Acceptable	Acceptable	Mature	4.440	2.180	10-40 Years	Deadwood noted throughout canopy	Retain
357	<i>Allocasuarina fraseriana</i>	Condil	7	5	0.430	Acceptable	Acceptable	Mature	5.160	2.322	5-10 Years	Wounding noted on main stem; tree displays leggy form	Retain
317	<i>Eucalyptus marginata</i>	Jarra	14	12	0.600	Acceptable	Acceptable	Mature	7.200	2.670	40+ Years	Deadwood and previous branch failures noted throughout canopy	Retain
318	<i>Allocasuarina fraseriana</i>	Condil	4	3	0.210	Questionable	Questionable	Mature	2.520	1.718	5-10 Years	Wounding noted on main stem; terminal deadwood noted throughout canopy	Seek further arboricultural advice
327	<i>Allocasuarina fraseriana</i>	Condil	9	10	0.440	Acceptable	Questionable	Mature	5.280	2.344	10-40 Years	Northern leader previously failed at main union	Seek further arboricultural advice
355	<i>Allocasuarina fraseriana</i>	Condil	8	9	0.400	Questionable	Questionable	Mature	4.800	2.252	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
391	<i>Eucalyptus gomphocephala</i>	Tuart	25	28	1.100	Good	Good	Mature	13.200	3.445	40+ Years	Good specimen; remnant tree; tree has habitat value for native fauna; basal wounding noted	Retain
Road Reserve													
368	<i>Eucalyptus marginata</i>	Jarra WA Red	8	6	0.480	Questionable	Questionable	Mature	5.760	2.431	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
534	<i>Corymbia ficifolia</i>	Flowering Gum	8	10	0.270	Good	Good	Mature	3.240	1.910	40+ Years	Good specimen	Seek further arboricultural advice
511	<i>Eucalyptus marginata</i>	Jarra	12	16	0.900	Good	Acceptable	Mature	10.800	3.166	40+ Years	Multi stemmed form; previous branch failures noted throughout canopy	Seek further arboricultural advice
504	<i>Corymbia calophylla</i>	Marri	15	17	0.620	Good	Good	Mature	7.440	2.707	40+ Years	Good specimen	Seek further arboricultural advice
513	<i>Corymbia calophylla</i>	Marri	14	10	0.340	Good	Questionable	Mature	4.080	2.104	10-40 Years	Canopy suppression noted; basal wounding noted	Seek further arboricultural advice
551	<i>Corymbia calophylla</i>	Marri	15	16	0.510	Good	Acceptable	Mature	6.120	2.494	10-40 Years	Bifurcates at 3m; canopy slightly sparse; basal wounding noted; deadwood noted throughout canopy	Seek further arboricultural advice
569	<i>Corymbia calophylla</i>	Marri	14	14	0.420	Acceptable	Acceptable	Mature	5.040	2.299	10-40 Years	Bifurcates at 3m; deadwood noted throughout canopy	Seek further arboricultural advice
512	<i>Eucalyptus marginata</i>	Jarra	12	13	0.480	Acceptable	Acceptable	Mature	5.760	2.431	40+ Years	basal wounding noted; fire damage; deadwood noted	Seek further arboricultural advice
552	<i>Eucalyptus marginata</i>	Jarra	4	4	0.180	Acceptable	Questionable	Semi-Mature	2.160	1.611	10-40 Years	Basal wounding noted; deadwood noted	Seek further arboricultural advice
521	<i>Eucalyptus marginata</i>	Jarra	15	13	0.620	Good	Acceptable	Mature	7.440	2.707	40+ Years	Reasonable specimen; bifurcates at 3m; basal wounding noted; wounding noted on main stem noted	Seek further arboricultural advice
714	<i>Eucalyptus marginata</i>	Jarra	14	14	0.470	Good	Acceptable	Mature	5.640	2.410	40+ Years	Reasonable specimen; bifurcates at 2m; deadwood noted	Seek further arboricultural advice
707	<i>Corymbia calophylla</i>	Marri	15	12	0.470	Questionable	Acceptable	Mature	5.640	2.410	5-10 Years	Canopy indicates decline; deadwood noted throughout canopy	Seek further arboricultural advice
620	<i>Corymbia calophylla</i>	Marri	16	18	0.720	Good	Questionable	Mature	8.640	2.883	10-40 Years	Basal wounding noted; mistletoe noted within canopy; deadwood noted throughout canopy	Seek further arboricultural advice
688	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	14	9	0.390	Good	Acceptable	Mature	4.680	2.228	10-40 Years	Bifurcates at 4m; canopy suppression noted	Seek further arboricultural advice
699	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	18	19	0.620	Good	Acceptable	Mature	7.440	2.707	10-40 Years	Good specimen	Seek further arboricultural advice
643	<i>Corymbia citriodora</i>	Gum Lemon Scented	15	16	0.470	Good	Good	Mature	5.640	2.410	40+ Years	Good specimen	Seek further arboricultural advice
568	<i>Corymbia calophylla</i>	Marri	20	20	0.810	Acceptable	Acceptable	Mature	9.720	3.029	10-40 Years	Canopy starting to indicate decline; deadwood noted throughout canopy	Seek further arboricultural advice
583	<i>Duranta erecta</i>	Duranta	4	6	0.350	Good	Acceptable	Mature	4.200	2.129	5-10 Years	multi stemmed form	Seek further arboricultural advice



Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
592	<i>Eucalyptus grandis</i>	Rose Gum	18	26	1.000	Acceptable	Acceptable	Mature	12.000	3.309	10-40 Years	Multi stemmed form; deadwood noted throughout canopy	Seek further arboricultural advice
545	<i>Eucalyptus platypus</i> var. <i>platypus</i>	Round Leaved Moort	9	10	0.500	Acceptable	Questionable	Mature	6.000	2.474	5-10 Years	Canopy previously lopped; previous branch failures noted throughout canopy	Seek further arboricultural advice
559	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	7	7	0.270	Acceptable	Acceptable	Mature	3.240	1.910	10-40 Years	Canopy suppression noted; deadwood noted throughout canopy	Seek further arboricultural advice
594	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	19	14	0.510	Good	Acceptable	Mature	6.120	2.494	10-40 Years	Leggy form	Seek further arboricultural advice
557	<i>Eucalyptus torquata</i>	Coral Gum	6	7	0.400	Acceptable	Acceptable	Mature	4.800	2.252	10-40 Years	Wounding noted on main stem; deadwood noted throughout canopy	Seek further arboricultural advice
460	<i>Eucalyptus megacornuta</i>	Warted Yate	11	12	0.460	Good	Acceptable	Mature	5.520	2.388	10-40 Years	Reasonable specimen; bifurcates at 600mm; deadwood and previous branch failures noted throughout canopy	Seek further arboricultural advice
419	<i>Eucalyptus marginata</i>	Jarra	12	10	0.460	Acceptable	Acceptable	Mature	5.520	2.388	10-40 Years	Wounding noted on main stem; canopy suppression noted; deadwood noted throughout canopy; tree has habitat value for native fauna	Seek further arboricultural advice
P.O.S. 2													
561	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	13	14	0.800	Good	Acceptable	Mature	9.600	3.013	10-40 Years	Bifurcates at ground level; previous branch failures noted; leggy form	Seek further arboricultural advice
577	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	14	12	1.200	Good	Questionable	Mature	14.400	3.573	10-40 Years	Bifurcates at ground level; previous branch failures noted	Seek further arboricultural advice
580	<i>Eucalyptus camaldulensis</i> var. <i>camadulensis</i>	Red River Gum	15	8	0.350	Acceptable	Acceptable	Mature	4.200	2.129	10-40 Years	Canopy slightly sparse	Seek further arboricultural advice
536	<i>Eucalyptus megacornuta</i>	Warted Yate	6	7	0.500	Questionable	Acceptable	Mature	6.000	2.474	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
524	<i>Eucalyptus conferruminata</i>	Bushy Yate	8	10	0.500	Acceptable	Questionable	Mature	6.000	2.474	<5 Years	Significant basal failure; wounding noted on main stem	Seek further arboricultural advice
588	<i>Eucalyptus botryoides</i>	Southern Mahogany	22	18	0.950	Good	Acceptable	Mature	11.400	3.239	10-40 Years	Bifurcates at 2m; previous branch failures noted throughout canopy; leggy form	Seek further arboricultural advice
590	<i>Eucalyptus botryoides</i>	Southern Mahogany	18	15	1.000	Good	Questionable	Mature	12.000	3.309	10-40 Years	Bifurcates at 2m; multi stemmed form; leggy form	Seek further arboricultural advice
696	<i>Corymbia calophylla</i>	Marri	19	18	1.500	Good	Questionable	Mature	15.000	3.924	10-40 Years	Bifurcates at ground level; basal wounding noted	Seek further arboricultural advice
667	<i>Corymbia calophylla</i>	Marri	17	17	0.630	Acceptable	Acceptable	Mature	7.560	2.726	10-40 Years	Deadwood and rubbing crossing stems noted throughout canopy	Retain
AC109	<i>Corymbia calophylla</i>	Marri	12	9	0.700	Questionable	Questionable	Mature	8.400	2.849	5-10 Years	Bifurcates at 1.5m; basal wounding noted; major deadwood to 500mm noted throughout canopy ; 1 main leader dead; rubbing crossing stems noted throughout canopy; canopy slightly sparse; not marked on MNG survey; tagged by Arbor Centre as '109' (circled tag)	Seek further arboricultural advice
AC110	<i>Corymbia calophylla</i>	Marri	16	10	0.420	Good	Acceptable	Mature	5.040	2.299	40+ Years	Good specimen; basal wounding noted; canopy suppression noted; deadwood noted throughout canopy; not marked on MNG survey; tagged by Arbor Centre as '110' (circled tag)	Retain
695	<i>Corymbia calophylla</i>	Marri	16	13	0.450	Good	Acceptable	Mature	5.400	2.366	40+ Years	Reasonable specimen; canopy suppression noted	Retain
644	<i>Corymbia calophylla</i>	Marri	16	11	0.400	Questionable	Acceptable	Mature	4.800	2.252	10-40 Years	Canopy sparse; mistletoe and deadwood noted throughout canopy	Seek further arboricultural advice
647	<i>Corymbia calophylla</i>	Marri	16	11	0.400	Good	Good	Mature	4.800	2.252	40+ Years	Reasonable specimen; canopy suppression noted	Retain
684	<i>Corymbia calophylla</i>	Marri	16	13	0.350	Acceptable	Acceptable	Mature	4.200	2.129	10-40 Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
635	<i>Corymbia calophylla</i>	Marri	16	11	0.420	Acceptable	Acceptable	Mature	5.040	2.299	10-40 Years	Canopy slightly sparse; deadwood noted throughout canopy	Retain
631	<i>Corymbia calophylla</i>	Marri	18	13	0.450	Acceptable	Questionable	Mature	5.400	2.366	10-40 Years	Previous main stem failure noted	Retain
626	<i>Eucalyptus marginata</i>	Jarra	7	6	0.310	Acceptable	Acceptable	Semi-Mature	3.720	2.024	40+ Years	Canopy suppression noted	Retain
612	<i>Corymbia calophylla</i>	Marri	22	20	1.200	Good	Questionable	Mature	14.400	3.573	40+ Years	Wounding noted on main stem ; multi stemmed form; previous branch failures noted throughout canopy; fire damage	Retain
646	<i>Corymbia calophylla</i>	Marri	22	15	0.460	Acceptable	Good	Mature	5.520	2.388	10-40 Years	Canopy sparse; mistletoe and deadwood noted throughout canopy	Retain
664	<i>Corymbia calophylla</i>	Marri	22	18	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Canopy starting to indicate decline; deadwood noted throughout canopy	Retain
678	<i>Corymbia calophylla</i>	Marri	13	7	0.300	Acceptable	Acceptable	Semi-Mature	3.600	1.996	40+ Years	Bifurcates at 4m; canopy slightly sparse	Retain
628	<i>Corymbia calophylla</i>	Marri	22	15	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
679	<i>Corymbia calophylla</i>	Marri	22	15	0.450	Questionable	Acceptable	Mature	5.400	2.366	5-10 Years	Canopy indicates decline; terminal deadwood noted	Seek further arboricultural advice
663	<i>Corymbia calophylla</i>	Marri	20	15	0.400	Acceptable	Acceptable	Mature	4.800	2.252	10-40 Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
627	<i>Corymbia calophylla</i>	Marri	8	10	0.280	Acceptable	Acceptable	Semi-Mature	3.360	1.939	40+ Years	Bifurcates at 3m; basal wounding noted	Retain
630	<i>Eucalyptus marginata</i>	Jarra	8	8	0.400	Acceptable	Acceptable	Mature	4.800	2.252	10-40 Years	Wounding noted on main stem; deadwood noted throughout canopy	Retain
661	<i>Eucalyptus gomphocephala</i>	Tuart	25	35	1.600	Good	Acceptable	Mature	15.000	4.032	40+ Years	Significant veteran tree; tree has habitat value for native fauna; major deadwood and previous branch failures noted throughout canopy; fire damage noted ; MGN tag 624 noted beneath tree	Retain
662	<i>Eucalyptus gomphocephala</i>	Tuart	28	30	1.180	Good	Acceptable	Mature	14.160	3.548	40+ Years	bifurcates at 2m; veteran tree; remnant tree; tree has habitat value for native fauna	Retain
656	<i>Eucalyptus gomphocephala</i>	Tuart	16	13	0.600	Acceptable	Acceptable	Mature	7.200	2.670	10-40 Years	Basal wounding noted; fire damage noted; canopy slightly sparse ; deadwood and branch failures noted throughout canopy	Retain

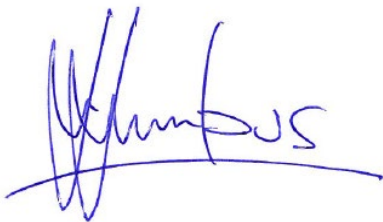


Tree ID Number	Species	Common Name	Tree Height (m)	Canopy Spread (m)	Trunk Diameter (m)	Health	Structure	Age	TPZ Radius (m)	SRZ Radius (m)	Useful Life Expectancy (ULE)	Observations & Comments	Preliminary Recommendation
665	<i>Eucalyptus gomphocephala</i>	Tuart	19	18	0.900	Good	Acceptable	Mature	10.800	3.166	40+ Years	Previous branch failure noted at ground level; canopy suppression noted; deadwood noted throughout canopy	Retain
622	<i>Corymbia calophylla</i>	Marri	23	20	0.600	Good	Good	Mature	7.200	2.670	40+ Years	Deadwood and previous branch failures noted throughout canopy; mistletoe noted throughout canopy	Retain
640	<i>Corymbia calophylla</i>	Marri	21	20	1.000	Acceptable	Acceptable	Mature	12.000	3.309	10-40 Years	Wounding noted on main stem; branch failure failures and mistletoe noted throughout canopy; canopy suppression noted	Retain
623	<i>Corymbia calophylla</i>	Marri	22	18	0.600	Acceptable	Acceptable	Mature	7.200	2.670	10-40 Years	Deadwood and previous branch failures noted throughout canopy	Retain
655	<i>Corymbia calophylla</i>	Marri	16	13	0.450	Acceptable	Acceptable	Mature	5.400	2.366	10-40 Years	Deadwood noted throughout canopy	Retain
601	<i>Corymbia calophylla</i>	Marri	13	20	1.000	Acceptable	Acceptable	Mature	12.000	3.309	10-40 Years	Multi stemmed form - coppice regrowth; rubbing crossing stems and deadwood noted throughout canopy ; low laterals present	Retain
654	<i>Corymbia calophylla</i>	Marri	12	12	0.400	Acceptable	Acceptable	Mature	4.800	2.252	10-40 Years	Deadwood noted throughout canopy	Retain
651	<i>Eucalyptus gomphocephala</i>	Tuart	25	30	2.000	Good	Questionable	Mature	15.000	4.428	10-40 Years	Multi stemmed form; main stem separation noted at 1m; veteran tree ; leggy form	Seek further arboricultural advice
653	<i>Eucalyptus gomphocephala</i>	Tuart	19	20	1.100	Good	Acceptable	Mature	13.200	3.445	40+ Years	Multi stemmed form; deadwood and mistletoe noted throughout canopy; canopy suppression noted; remnant tree; tree has habitat value for native fauna	Retain
666	<i>Eucalyptus gomphocephala</i>	Tuart	11	10	0.400	Acceptable	Acceptable	Semi-Mature	4.800	2.252	40+ Years	Bifurcates at 1.8m; canopy slightly sparse	Retain
642	<i>Corymbia calophylla</i>	Marri	12	11	0.900	Poor	Questionable	Mature	10.800	3.166	<5 Years	Canopy indicates decline	Seek further arboricultural advice
674	<i>Eucalyptus gomphocephala</i>	Tuart	19	25	1.200	Good	Good	Mature	14.400	3.573	40+ Years	Reasonable specimen; bifurcates at 1m; remnant tree; tree has habitat value for native fauna; leggy form	Retain
677	<i>Eucalyptus marginata</i>	Jarra	13	17	0.650	Good	Good	Mature	7.800	2.762	40+ Years	Good specimen; basal wounding noted	Retain
657	<i>Eucalyptus marginata</i>	Jarra	11	8	0.320	Acceptable	Acceptable	Semi-Mature	3.840	2.051	10-40 Years	Bifurcates at 4m; basal wounding noted; fire damage noted; canopy slightly sparse deadwood noted throughout canopy	Retain
676	<i>Eucalyptus gomphocephala</i>	Tuart	16	16	0.820	Acceptable	Questionable	Mature	9.840	3.045	5-10 Years	Wounding noted on main stem ; main stem failed; fire damage noted; previous branch failures noted throughout canopy	Seek further arboricultural advice
659	<i>Eucalyptus gomphocephala</i>	Tuart	25	23	0.800	Acceptable	Questionable	Mature	9.600	3.013	10-40 Years	Basal wounding noted on main stem - termite mud noted; major deadwood noted throughout canopy	Seek further arboricultural advice
658	<i>Corymbia citriodora</i>	Lemon Scented Gum	11	13	0.410	Good	Good	Mature	4.920	2.276	40+ Years	Reasonable specimen; rubbing crossing stems noted throughout canopy	Retain
634	<i>Eucalyptus gomphocephala</i>	Tuart	19	15	0.720	Good	Acceptable	Mature	8.640	2.883	10-40 Years	Fire damage noted; canopy suppression noted; deadwood noted throughout canopy	Retain
675	<i>Eucalyptus gomphocephala</i>	Tuart	19	16	0.770	Good	Acceptable	Mature	9.240	2.965	40+ Years	Bifurcates at 3m; canopy suppression noted; mistletoe noted; leggy form	Retain
685	<i>Eucalyptus gomphocephala</i>	Tuart	18	14	0.750	Good	Acceptable	Mature	9.000	2.933	40+ Years	Reasonable specimen; deadwood noted throughout canopy; canopy suppression noted	Retain
636	<i>Eucalyptus gomphocephala</i>	Tuart	17	16	0.800	Good	Acceptable	Mature	9.600	3.013	40+ Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
637	<i>Eucalyptus gomphocephala</i>	Tuart	11	12	0.400	Acceptable	Acceptable	Mature	4.800	2.252	10-40 Years	Deadwood noted throughout canopy; adjacent tree 645	Retain
645	<i>Eucalyptus gomphocephala</i>	Tuart	19	14	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Canopy suppression; deadwood noted throughout canopy; adjacent tree 637	Retain
693	<i>Eucalyptus gomphocephala</i>	Tuart	25	26	2.000	Good	Questionable	Mature	15.000	4.428	10-40 Years	Multi stemmed form; previous failure of main stem noted; deadwood and previous branch failures noted throughout canopy	Seek further arboricultural advice
639	<i>Eucalyptus marginata</i>	Jarra	11	15	1.500	Good	Questionable	Mature	15.000	3.924	10-40 Years	Multi stemmed form; fire damage noted	Seek further arboricultural advice
692	<i>Corymbia calophylla</i>	Marri	10	8	0.500	Acceptable	Acceptable	Mature	6.000	2.474	10-40 Years	Wounding noted on main stem ; canopy slightly sparse; deadwood and mistletoe noted throughout canopy; canopy suppression noted	Retain
691	<i>Corymbia calophylla</i>	Marri	22	15	0.630	Good	Acceptable	Mature	7.560	2.726	10-40 Years	Basal wounding noted; deadwood noted throughout canopy; canopy suppression noted	Retain
687	<i>Corymbia calophylla</i>	Marri	20	15	0.500	Good	Acceptable	Mature	6.000	2.474	10-40 Years	Canopy suppression noted; deadwood noted throughout canopy	Retain
688	<i>Corymbia calophylla</i>	Marri	8	13	0.550	Good	Acceptable	Mature	6.600	2.575	10-40 Years	Reasonable specimen; canopy suppression noted; deadwood noted throughout canopy	Retain
697	<i>Eucalyptus marginata</i>	Jarra	14	12	0.550	Good	Acceptable	Mature	6.600	2.575	40+ Years	Reasonable specimen; deadwood noted throughout canopy; canopy suppression noted	Retain
629	<i>Corymbia calophylla</i>	Marri	6	6	0.180	Acceptable	Acceptable	Semi-Mature	2.160	1.611	40+ Years	Deadwood and rubbing crossing stems noted throughout canopy	Retain
638	<i>Corymbia calophylla</i>	Marri	22	18	0.600	Acceptable	Acceptable	Mature	7.200	2.670	10-40 Years	Wounding noted in upper canopy; deadwood and mistletoe noted throughout canopy; leggy form	Retain
641	<i>Corymbia calophylla</i>	Marri	12	10	0.400	Good	Acceptable	Mature	4.800	2.252	10-40 Years	Deadwood noted throughout canopy; canopy suppression noted	Retain
686	<i>Corymbia calophylla</i>	Marri	20	16	1.000	Good	Questionable	Mature	12.000	3.309	10-40 Years	Basal wounding noted; multi stemmed form ; deadwood noted throughout canopy; leggy form	Seek further arboricultural advice
694	<i>Corymbia calophylla</i>	Marri	10	8	0.300	Acceptable	Acceptable	Mature	3.600	1.996	10-40 Years	Bifurcates at 4m; deadwood noted throughout canopy; canopy slightly sparse	Retain



If you have any queries or if I can be of further assistance, please contact Charlie or I on office number: -
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Kind regards,



Luke Lumbus – Arboricultural Consultant

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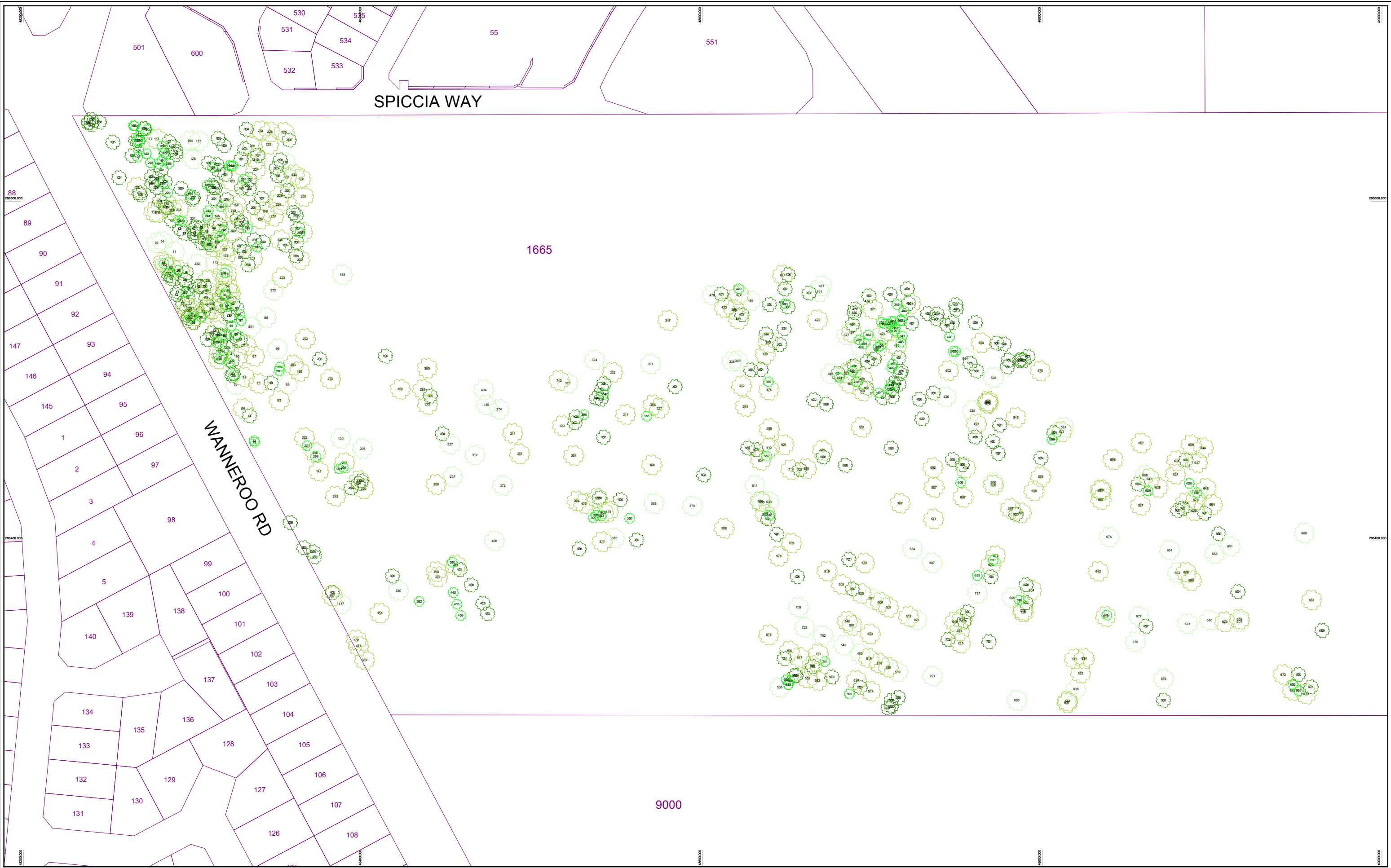
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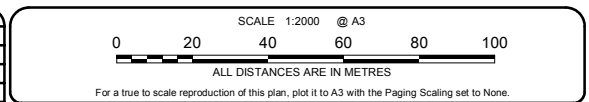
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Rev.	Initial Issue	Description	Drawn	Date	Checked
A	Initial Issue		JGA	17/08/2018	JGA

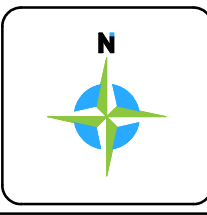


The contents of this plan are current and correct as of the date stated within the revision panel. All consultants and persons relying to utilize this data should satisfy themselves of this plan's currency by contacting the McMullen Nolan Group.

Surveyor: JGA
 Survey Date: 13/08/2018
 Precast/Cast: N/A

ISO 9001 Quality Management
 AS/NZS 4801:2001 Occupational Health and Safety Management

FS 565311 OSH 591267



The boundaries shown on this plan were not re-established as part of this survey, therefore this plan does not guarantee their accuracy. Existing easements, encumbrance or interest are not depicted and a title search is recommended to obtain this information. Re-establishment of the cadastral boundaries is recommended for any proposed works on or near existing boundaries.

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SINAGRA TREE SURVEY

CLIENT: **STOCKLAND**

Project Mng: ROB RHODES Datum: PCG94 / AHD

100859 - DE - 001 - A

Job Number: 100859 Type: DE Plan Number: 001 Revision: A

Appendix E Evidence Register

Table E.3: Evidence Register

Code	Reference	Author	Electronic	Hard-copy	Topic
C01	C01_EPBC 2017-7921 Letter of Commencement DCCEEW Acknowledgement	DCCEEW	X		Acknowledgement from DCCEEW of the notification by Stockland of date of commencement of the project.
C02	C02_EPBC 2017_7921 Condition 7_ Notification of Action Commencement	Stockland	X		Stockland notification of commencement to DCCEEW
C03	C03_DBCA Offset Credit_Chittering Site	DBCA	X		Letter (31/03/2020) from the office of the director general to record an understanding relating to the transfer of Lot 50
C04	C04_MOU (DBCA Stockland)_Nov 2021	DBCA / Stockland	X		MOU for the implementation of the Environmental Offset Plan for EPBC Approval 2017/7921
C05	C05_Dry Soil Conditions Lot 50	Stockland	X		Photos (05/7/2022) of clearing undertaken in preparation of fencing
C06	C06_DBCA receipt of dieback signage	DBCA	X		Email notification that the dieback signs have arrived.
C07	C07_Chittering fire breaks inspection	LAC	X		Photos (05/01/2024) of firebreaks prior to maintenance.
C08	C08_2017-7921 EOP Approval Letter	DAWE	X		Approval Letter from DAWE for the Environmental Offset Plan
C09	C09_UWMP City approval letter 16.05.23	City of Wanneroo	X		Approval letter from City of Wanneroo for the Illyarrie Stage 1 Lot 1665 Wanneroo Road Sinagra WAPC 161417 Urban Water Management Plan.
E01	E01_Settlement Statement - Lot 50 Reserve Road Chittering 16.06.2020	Thomson Geer	X		Buyer's Draft Settlement Statement 16/06/2020 for Lot 50 Reserve Road Chittering
E02	E02_WA Landgate Title Search - 2229_39 (71809941v1)	Landgate	X		Certificate of Title for LOT 50 ON DEPOSITED PLAN 39849 registered 22/06/2020
E03	E03_Transfer of Offset to DBCA	Stockland	X		Form T2 transfer of title Lot 50 to DBCA

Code	Reference	Author	Electronic	Hard-copy	Topic
E04	E04_Website Screenshot Landgate 2024-06-16	Landgate	X		Screenshot from Landgate showing Lot 50 plot, boundary and area of 141.9718 ha.
E05	E05_Certificate of Title 2229-39 Lot 50 On Deposited Plan 39849	Landgate	X		Certificate of Title for LOT 50 ON DEPOSITED PLAN 39849 registered 23/07/2020
E06	E06_20230521 DHI-ENV_2778 Environmental Inspection	Georgiou	X		Worksite Inspection undertaken 21/05/2023
E07	E07_20240327 DHI-ENV_3503 Environmental Inspection	Georgiou	X		Worksite Inspection undertaken 27/03/2024
E08	E08_Lot 50 Firebreaks 1	Stockland	X		Photo of Lot 50 maintained firebreaks Jan 2024
E09	E09_Lot 50 Firebreaks 2	Stockland	X		Photo of Lot 50 maintained firebreaks Jan 2024
E10	E10_Lot 50 Firebreaks 3	Stockland	X		Photo of Lot 50 maintained firebreaks Jan 2024
E11	E11_Lot 50 Firebreaks 4	Stockland	X		Photo of Lot 50 maintained firebreaks Jan 2024
E12	E12_Lot 50 Fencing 1	Stockland	X		Photo of fencing installed at Lot 50
E13	E13_Lot 50 Fencing 2	Stockland	X		Photo of fencing installed at Lot 50
E14	E14_Lot 50 Fencing 3	Stockland	X		Photo of fencing installed at Lot 50
E15	E15_Dieback Signs Locations Lot 50	Glevan	X		Diagram showing type and locations of dieback signage
E16	E16_Dieback Signage Design	Jason	X		Dieback Signage Designs as per types shown on E15
E17	E17_Nature Reserve Sign	Stockland	X		Photo of Ioppolo Nature Reserve Sign
E18	E18_Illyarrie Constraints plan	JBS&G	X		JBS&G Illyarrie, Lot 1665 Wanneroo Road, Sinagra, WA Constraints plan
E19	E19_Significant Tree Plan Enviro 360 20180202	360 Environmental	X		Figure 9 Potential Black Cockatoo Breeding Trees
E20	E20_Site Induction Presentation (Rev 3)	Georgiou	X		Georgiou Illyarrie Construction Site Induction
E21	E21_Trees Marked for Retention	Georgiou	X		Photo of trees marked for retention
E22	E22_Georgiou Online Induction	Georgiou	X		Georgiou Online Subcontractor HSEQ General Induction (v3)
E23	E23_Retention Tree Loss Incident INC_11257	Georgiou	X		Report for Incident number 11257 dated 10/05/2023 loss of a significant tree that was identified for retention

Code	Reference	Author	Electronic	Hard-copy	Topic
E24	E24_Lot 50 Weed Control Scope	LAC	X		Request for quotation in 2023 outlining weed control at Lot 50
E25	E25_Lot 50 Weed Control Invoice March 2024	LAC	X		Invoices for weed control at Lot 50
E26	E26_Lot 50 Weed Control Invoice April 2024	LAC	X		Invoices for weed control at Lot 50
E27	E27_Lot 50 Weed Control Invoice May 2024	LAC	X		Invoices for weed control at Lot 50
E28	E28_Marking Dye	LAC	X		Photo of LAC utilising marking dye
E29	E29_Weed Control Signage	LAC	X		Photo of signage on LAC vehicles
E30	E30_Bushfire Management Plan Assessment	JBS&G	X		Lot 1665 Wanneroo Road (Illyarrie Estate), Sinagra WA BAL Contour Map
E31	E31_Website Screenshot Management Plans	JBS&G	X		Website screenshot 05/07/2024 showing CEMP and EOP available on Stockland Illyarrie website
E32	E32_FW_ Lot 50 Reserve Road Chattering_ Fencing	DBCA	X		Email from DBCA 05/07/2024 clarifying that not installing the southern boundary fence on Lot 50 will not increase the risk of the spread of dieback along the edge of the reserve.
E33	E33_Hygiene Register	Contractors	X		Hygiene register for contractors undertaking works on Lot 50 in 2023/24
G01	G01_Clearing Diagram 6373-00-101_1	Cossill & Webley	X		Clearing and Siteworks Drawing [6373-00-101-1]
G02	G03_65211 Illyarrie Vegetation Clearing	JBS&G	X		Lot 1665 Wanneroo Road Sinagra, WA Vegetation Clearing Comparison (29/04/2023 to 06/04/2024)
M01	M01_Illyarrie Evidence Request Stockland Response Rev 0	Stockland	X		Stockland response to JBS&G queries for evidence to undertake the annual compliance report
M02	M02_Illyarrie Second Evidence Request Stockland Response Rev 0	Stockland	X		Stockland response to further JBS&G queries for evidence to undertake the annual compliance report
R01	R01_2023_24 Illyarrie ACR	JBS&G	X		This document
R02	R02_CEMP Rev D June 2019	Strategen	X		Lot 1665 Wanneroo Road, Sinagra (EPBC 2017/7921) Construction Environmental Management Plan June 2019 Rev D

Code	Reference	Author	Electronic	Hard-copy	Topic
R03	R03_Environmental Offset Plan (Rev 4)	Strategen-JBS&G	X		Lot 1665 Wanneroo Road Sinagra Environmental Offset Plan 14 May 2020 (Rev 4)
R04	R04_Environmental Management Plan Guidelines 2014	DCCEEW	X		Department of Climate Change, Energy, the Environment and Water Environmental Management Plan Guidelines (version 1.2)
R05	R05_Arbicultural Impact Report Tree Survey Feb2019	The arbour centre consultancy	X		Lot 1665 Wanneroo Road, Sinagra Stage 1: - Site Investigations and Preliminary Arbicultural Impact Report
R06	R06_Preliminary Lot 50 Offset Site Assessment	JBS&G	X		Preliminary offset site assessment – Lot 50 Reserve Road, Chittering
R07	R07_63264_Lot50ReserveRoad WeedAssessment_Rev0	JBS&G	X		Weed Assessment, Sinagra Offset Site: Lot 50 Reserve Road, Chittering (15 December 2022)
R08	R08_64546_Lot50 Reserve Road Weed Assessment Creek line (Rev0)	JBS&G	X		Weed Assessment, Sinagra Offset Site: Lot 50 Reserve Road, Chittering (09 May 2023)
R09	R09_Dieback Survey 19-0891 - Lot 50 Reserve Road	Glevan	X		Phytophthora Dieback occurrence assessment - Lot 50 Reserve Road [19-0891 Version 1.0]
R10	R10_UWMP Sinagra (Rev 1)	Strategen-JBS&G	X		Lot 1665 Wanneroo Rd, Sinagra Stage 1 - Urban Water Management Plan 19 January 2022 (Rev 1)
R11	R11_Fauna Pre-clearance Survey_V1	Fauna services	X		Notice of confirmation of Pre Clearance trapping and Fauna spotting during clearing, Illyarrie Estate.
R12	R12_Lot 50 Reserve Road Weed Assessment 2023 Rev0	JBS&G	X		Weed Assessment, Sinagra Offset Site: Lot 50 Reserve Road, Chittering 2023 (02 February 2024)
R13	R13_Due Diligence Report Final	360 Environmental	X		360 Environmental, Environmental Due Diligence – Lot 1665 Wanneroo Road, Sinagra


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