

SUSTAINABLE TREE MANAGEMENT

PRELIMINARY TREE ASSESSMENT

Site Address:
Collison Estate, Cranbourne East

Report Prepared for:
Katelyn Nash
KLM Spatial



Sustainable
Tree Management

Prepared by:
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1. INTRODUCTION

This Preliminary Tree Assessment has been prepared for Katelyn Nash from KLM Spatial. The proposed development of Collison Estate will likely involve the subdivision of land into smaller lots and be developed for mostly residential use. This will include the development of roads and restructuring of drainage lines across the study area and result in the loss of native vegetation.

This Preliminary Tree Assessment is an informal road side tree assessment of 94 individual land parcels known as Collison Estate. The Preliminary Tree Assessment identifies areas where trees that may be considered to have high retention are located. This report is not intended to be a comprehensive tree protection report. The information provided is to be used by planners, architects and designers in conjunction with planning controls and other legislation, to help design a suitable layout in such a way that if any trees are selected for retention are provided with enough space to remain viable. This report should not be made available to any other parties other than those who are involved with the development proposal on this site.

Access was not available to privately owned properties and therefore some of the tree groups have not been fully assessed. Where it is thought likely that these areas might contain high value trees the entire lot is listed as being of high value. A further targeted assessment of these potentially high value tree areas is required to accurately ascertain the presence of any high value trees.

2. SCOPE AND REPORT OBJECTIVES

Sustainable Tree Management was engaged by Katelyn Nash from KLM Spatial to undertake a preliminary tree assessment on trees within the subject sites known as Collison Estate. The report objectives are:

- To identify areas where significant semi mature and mature native vegetation currently growing within an individual allotment that may require further targeted analysis and assessment.
- To identify areas where significant semi mature and mature native vegetation is growing within road side areas that may require further targeted analysis and assessment.
- Nominate areas where remnant vegetation was observed and requires targeted analysis and assessment.

3. SITE AND VEGETATION OVERVIEW

Figure 1 (below) is a plan which shows the extent of the subject land that was assessed as part of this report known as Collison Estate. The area assessed is broadly bound by Berwick-Cranbourne Road to the south, Mayfield Road to the west, Linsell Boulevard to the north and Cranbourne East Precinct Structure Plan (PSP) to the east, noting that the land is comprised of 94 individual land parcels with an overall land area of approximately 96 hectares.

Within this urbanised area, no remnant vegetation was discovered and the majority of trees located on private allotments are planted Australian native species with scattered exotic trees around dwellings and windrows along paddock boundaries. Very few of these plantings are locally indigenous to the area.

A total of seventeen (17) allotments within Collison Estate require further targeted arboricultural assessments as these allotments are densely populated by singular or clumped semi mature and/or mature native vegetation that couldn't be forensically assessed from the road side. If the proposed development layout threatens any of these tree groups it would be advisable to make further efforts to gain access to these individual properties to more accurately assess these trees. The locations of these seventeen (17) allotments have been marked within the plan below (figure 1), individually listed within the recommendations and a more detailed overhead image and assessment is supplied within the appendices of this report.

The Casey Significant Tree Strategy updated 18th November 2014, identifies the most significant trees in Casey and provides planning controls to protect these trees into the future. The Casey Significant Tree Register identifies approximately 850 River Red Gums, exotic and other native trees that meet specified significance criteria. The study also makes reference to additional known heritage trees, such as two Avenues of Honour. No trees growing within Collison Estate are included within the Casey Significant Tree Register.



4. PLANNING CONSIDERATIONS

I note that no planning controls apply on the land pertaining to vegetation (ie. Vegetation Protection Overlay) therefore native vegetation proposed for removal should be assessed under 52.17.

Destruction, lopping or removal of native vegetation on land which, together with all contiguous land in one ownership, has an area of 0.4 hectares or more requires a planning permit under Clause 52.17 of all Victorian Planning Schemes. This includes the removal of dead trees with a DBH (diameter at breast height or 1.3 metres) of 40 centimetres or more and any individual scattered native plants.

The following exemptions must be considered when determining if native vegetation requires a permit for its removal.

1. Native vegetation that is to be removed, destroyed or lopped that was either planted, or grown as a result of direct seeding.

This exemption does not apply to native vegetation planted or managed with public funding for the purpose of land protection or enhancing biodiversity unless the removal, destruction or lopping of the native vegetation is in accordance with written permission of the agency (or its successor) that provided the funding.

2. Native vegetation that is to be removed, destroyed or lopped that has naturally established or regenerated on land lawfully cleared of naturally established native vegetation, and is: – less than 10 years old; or

- bracken (*Pteridium esculentum*); or
- less than ten years old at the time of a property vegetation plan being signed by the Secretary to the Department of Environment, Land, Water and Planning (as constituted under Part 2 of the *Conservation, Forests and Lands Act 1987*); and is shown on that Plan as being 'certified regrowth'; and
- on land that is to be used or maintained for cultivation or pasture during the term of that Plan; or
- within the boundary of a timber production plantation, as indicated on a Plantation Development Notice or other documented record, and has established after the plantation.

This exemption does not apply to land where native vegetation has been destroyed or otherwise damaged as a result of flood, fire or other natural disaster.

5. SURVEY METHODOLOGY

The collection of tree data was undertaken by Luke Sturgess between Monday 11th June and Friday 22nd June 2018. The data was captured on site and general arboricultural information collected is recorded within individual site addresses.

The survey and assessment undertaken of all of the study site trees was made from a visual inspection from the roadside only. Access was not available to private properties on the site and some of the tree groups require a further targeted assessment. Where it is thought likely that these areas might contain high value trees the entire area is listed as being of high value. Further assessment of these high value tree areas is required to ascertain the presence of high value trees.

No trees were climbed and no samples of soil, plant material or pest and disease infestation (if present) were taken for analysis. Due to limited site access genus identification was carried out in the field and is considered as common; no samples have been taken to the National Herbarium of Victoria for accurate analysis and identification. Once access is arranged to potential high value sites more accurate genus/species identification can be provided.

6. DOCUMENTS VIEWED IN PERPETRATION OF THIS REPORT

The following documents were viewed in preparation of this report:

- City of Casey Planning Scheme
- Cranbourne East Precinct Structure Plan (Greenwood Consulting 2007)
- City of Casey Significant Tree Register
- Aerial Photography of the site (Near Maps)

7. RECOMMENDATIONS

Generally the study area is poorly treed with few highly significant mature native trees observed across the site. Many of the larger and more significant trees within Collison Estate are growing along the western boundary adjacent to Mayfield Road. Three (3) of the total nineteen (17) privately owned sites that have been recommend for targeted assessments are located concurrently. From an amenity and aesthetic perspective and subject to a further detailed review to ensure any vegetation for retention is suitable for a future urban environment, this area might present an opportunity for tree retention within a pocket park or another nominated tree retention area.

While there are a number of large trees located within the site assessment area few observed have a sufficiently long Useful Life Expectancy to be considered high retention value. All trees observed within the roadside assessment are considered planted. Many trees growing within individual allotments are consistent with rural shelter belts and species selected are not locally indigenous, further, much of these plantings are exotic and poorly pruned or managed.

Many of these trees exhibit poor health and/or structure and are not suitable for retention within most normal development contexts. While the amenity value provided by these trees might currently be high as group plantings, it is unlikely that these trees will continue to provide this level of amenity as standalone specimens for a sufficient length of time to warrant their retention within any proposed development of the site.

The design team should made aware of the seventeen (17) individual sites where potentially mature native and/or remnant trees may be growing and a further targeted Arboricultural assessment of these individual lots listed below is recommended.

- 215 Berwick Cranbourne Road, Cranbourne East
- 10 Collison Road, Cranbourne East
- 14 Collison Road, Cranbourne East
- 10 Heather Grove, Cranbourne East
- 26 Collison Road, Cranbourne East

- 10 Garden Street, Cranbourne East
- 11 Garden Street, Cranbourne East
- 49 Collison Street, Cranbourne East
- 45 Collison Street, Cranbourne East
- 33 Collison Street, Cranbourne East
- 25 Collison Street, Cranbourne East
- 40 Mayfield Road, Cranbourne East
- 38 Mayfield Road, Cranbourne East
- 36 Mayfield Road, Cranbourne East
- 18 Mayfield Road Cranbourne East
- 5 Collison Road, Cranbourne East
- 11 Collison Road, Cranbourne East

Should you have any questions with regards to the information and data presented within this assessment or require further assistance as development plans progress please don't hesitate to make contact.

Yours sincerely,



Luke Sturgess
Director and Arborist

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8. QUALIFICATIONS AND EXPERIENCE OF CONSULTANT

Qualifications

Diploma Arboriculture (AQF5)

Advanced Diploma Business Management

Experience

Director Sustainable Tree Management 11 years

Senior Vegetation Management Officer 11 years (Arborist Town Planning City of Kingston)

9. APPENDICES INDIVIDUAL SITE ADDRESSES

215 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- The existing dwelling is situated along the eastern boundary towards Berwick Cranbourne Road. The larger trees on site are growing adjacent to Berwick Cranbourne Road. These trees are a mix of Eucalypt plantings most likely planted as a screen and noise buffer. No remnant vegetation was observed during the inspection.	
Species observed on site	Majority native
Approx. age of trees on site	Semi mature and mature
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site.	Yes - River Red Gum growing within front setback. (Location highlighted in blue)

205 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- The majority of land is currently being use for horse agistment and hobby farming purposes. Semi mature native trees are growing on the corner of Collison Road and Berwick Cranbourne Road. All trees on the site have been assessed as planted vegetation and no remnant vegetation was observed. Tree observed within the rear yard are in poor overall health and condition.

Species observed on site	<i>E. saligna</i> , <i>E nicholii</i>
Approx. age of larger trees on site	Semi mature
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site.	No

4 COLLISON ROAD, CRANBOURNE EAST



Site Description- Majority of land is being used as a hobby farm. Trees growing along the southern boundary are planted <i>Melaleuca armillaris</i> . Other semi mature native and exotic trees were observed and are consistent with planted vegetation. No remnant trees were observed.	
Species observed on site	Eucalyptus. sp
Approx. age of larger trees on site	Semi mature
Approx. tree heights	12 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site.	No

6 COLLISON ROAD, CRANBOURNE EAST



Site Description- Most of the vegetation observed are exotic specimens including Ash and Cypress. Overall the native vegetation observed on site is in poor health and condition.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	14 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

8 COLLISON ROAD, CRANBOURNE EAST



Site Description- Majority of land is clear of vegetation. No significant native or remnant vegetation was observed.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature
Approx. tree heights	5 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

10 COLLISON ROAD, CRANBOURNE EAST



Site Description- All trees assessed within the front setback are low retention exotic and native plantings. One large and likely mature tree growing in the rear yard requires a targeted assessment. (highlighted In blue)	
Species observed on site	Native and exotic
Approx. age of larger trees on site	25 plus
Approx. tree heights	15
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

12 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense mature plantings of exotic specimens within the front setback of the property. These trees are Cypress and Pine species. No remnant native vegetation was observed.	
Species observed on site	Exotic
Approx. age of larger trees on site	10 plus
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

14 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense vegetation plantings especially growing along the southern boundary. No remnant vegetation observed from road side however there is a mature <i>Eucalyptus viminalis</i> growing in the front setback that requires a targeted assessment.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	30 plus
Approx. tree heights	14 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

16 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense plantings within the front setback of the property. Trees have been likely planted as a wind breaks or screening around boundaries.	
Species observed on site	Mix of exotic and native
Approx. age of larger trees on site	30 years
Approx. tree heights	12 plus
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

18 COLLISON ROAD, CRANBOURNE EAST



Site Description- No trees or other semi mature vegetation is growing in the rear yard. A couple of semi mature Eucalypts were observed growing within the front setback but none are remnant or mature in age. The understory is exotic.	
Species observed on site	<i>Eucalyptus sp</i> (trees) and exotic understory.
Approx. age of larger trees on site	20 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

8 HEATHER GROVE, CRANBOURNE EAST



Site Description- All trees growing on the site have been assessed as planted. No trees on this site are considered high retention or require further assessment due their overall condition and species selection.	
Species observed on site	Native Eucalyptus sp
Approx. age of larger trees on site	30
Approx. tree heights	13
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

10 HEATHER GROVE, CRANBOURNE EAST



Site Description- This site is dominated by semi mature and mature Eucalyptus sp. The majority of the trees on this site look to be around 30- 40 years old although there are many trees growing in the rear yard that couldn't be accessed. A targeted assessment of trees on this site should be undertaken prior to making a final determination regarding tree removal. Image below shows native trees growing along the Heather Grove frontage.

Species observed on site	Eucalypt varieties
Approx. age of larger trees on site	30-40 years
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes- Targeted site visit



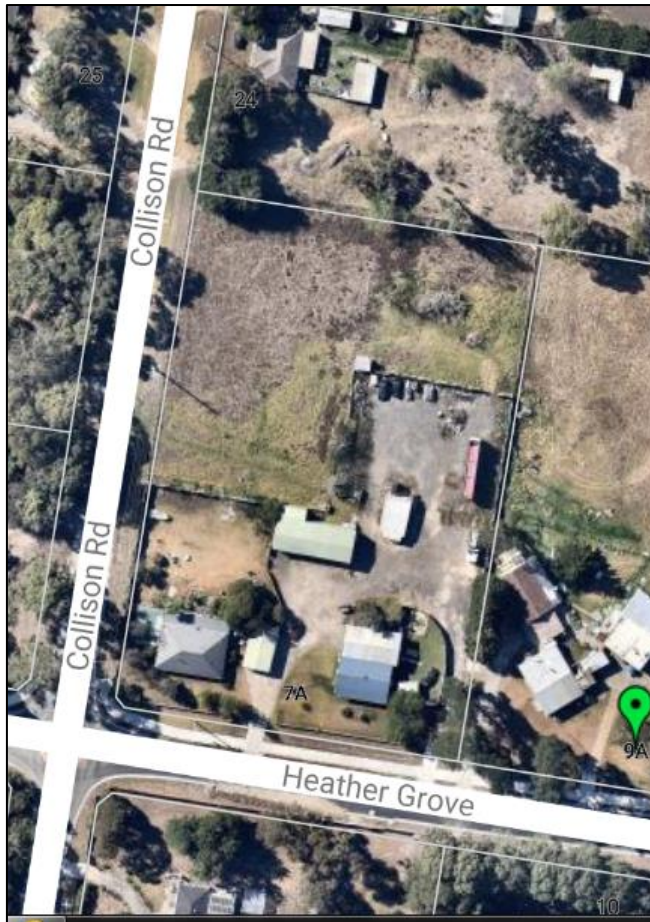
9A HEATHER GROVE, CRANBOURNE EAST



Site Description- No native vegetation was observed on site. The semi mature trees growing within the front setback are exotic Pine plantings. No further assessment is required.

Species observed on site	Exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	No

7A HEATHER GROVE, CRANBOURNE EAST



Site Description- No native vegetation over 15 years old was observed within 7A Heather Grove. All trees planting trees along boundaries are exotic and no further targeted assessment is required.

Species observed on site	Exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	No

24 COLLISON ROAD, CRANBOURNE EAST



Site Description- Front setback of 24 Collison Road is dominated by exotic plantings. No remnant native vegetation was observed and no further targeted site assessments are required. The street tree growing within the road reserve is a topped *Eucalyptus sp* that is growing directly under HV wires and has poor structure.

Species observed on site	Native and exotic
Approx. age of larger trees on site	10-20 years old
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

26 COLLISON ROAD, CRANBOURNE EAST



Site Description- Juvenile and young plantings dominate the front setback of the property. One large mature <i>Eucalyptus sp</i> is growing in the rear yard and requires a targeted assessment. The approximant location of this tree is highlighted in blue.	
Species observed on site	Native and Exotic
Approx. age of larger trees on site	30 -40 years
Approx. tree heights	15 plus
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

28 COLLISON ROAD, CRANBOURNE EAST



Site Description- Juvenile and young plantings are growing within the front setback of the property. Planted vegetation was also observed within the rear yard. No remnant vegetation was observed on site.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	10-20 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

30 COLLISON ROAD, CRANBOURNE EAST



Site Description- Planted <i>Melaleuca armillaris</i> growing within the front setback. No mature or significant vegetation was observed in the rear yard of the property.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

32 COLLISON ROAD, CRANBOURNE EAST



Site Description- Trees growing within the front setback are exotic Ash and Oak. The larger trees observed growing in the rear yard also exotic. No further targeted assessments are required for this site.	
Species observed on site	Exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

34 COLLISON ROAD, CRANBOURNE EAST



Site Description- Exotic and native trees were observed growing within the front setback of the property and within close proximity to the dwelling. All trees on site have been assessed as planted vegetation not over 20 years old and no further site assessments are required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	<20 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

36 COLLISON ROAD, CRANBOURNE EAST



Site Description- Four Blue Gums are growing within the front setback of the property. These trees have been likely planted to provide screening from the road and are approximately 30 years old. No remnant vegetation was observed on site.

Species observed on site	Native and exotic
Approx. age of larger trees on site	30 years
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

38 COLLISON ROAD, CRANBOURNE EAST



Site Description- Exotic Cypress trees are growing along the northern boundary. No native vegetation over 10 years old was observed on site.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	10 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

40 COLLISON ROAD, CRANBOURNE EAST



Site Description- No semi mature vegetation observed on site except for the exotic Cypress trees growing along the southern boundary. No remnant vegetation.	
Species observed on site	Exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

42 COLLISON ROAD, CRANBOURNE EAST



Site Description- The site is made up of a mix of native of exotic planting with the majority found within the front setback. No trees were assessed over 20 years old and no further targeted assessments are required.

Species observed on site	Native and exotic
Approx. age of larger trees on site	20 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

44 COLLISON ROAD, CRANBOURNE EAST



Site Description- The site is made up of a mix of native of exotic planting with the majority found within the front setback. No trees were assessed over 20 years old and no further targeted assessments are required.

Species observed on site	Native and exotic
Approx. age of larger trees on site	20 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

46 COLLISON ROAD, CRANBOURNE EAST



Site Description- The tree located within the front setback are planted specimens. There is also four street trees growing on the nature strip that have been planted. The trees have been topped to provide clearance from overhead HV wires. No remnant or mature trees observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

8 GARDEN STREET, CRANBOURNE EAST



Site Description- Many planted Eucalypt trees are growing within close proximity to the existing dwelling. The majority are semi mature and no remnant trees were observed on site. The street trees growing adjacent to Garden Street are also planted and are a mix of exotic and natives.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	20-30 years
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

10 GARDEN STREET, CRANBOURNE EAST



Site Description- This site is heavily vegetation with a number of mature native specimens observed throughout the site, both within the front setback and rear yard. Further targeted assessment is required to identify mature trees that might be worth including into any subdivision proposal.	
Species observed on site	Native
Approx. age of larger trees on site	30 years plus
Approx. tree heights	15 metres plus
Significant trees	No
Any habitat hollows observed	Unsure
Is further targeted assessment required on this site	Yes

17 & 19 GARDEN STREET, CRANBOURNE EAST

Site Description- The subdivided site has been planted out with native and exotic specimens. No trees on either site are semi mature in age. No further assessment is required.

Species observed on site	Native and exotic
Approx. age of larger trees on site	10 years
Approx. tree heights	6 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

15 GARDEN STREET, CRANBOURNE EAST

Site Description- This site has been planted out with native and exotic plantings. No trees on site are over 20 years old and no remnant or mature trees were observed.

Species observed on site	Native and exotic
Approx. age of larger trees on site	10-20 years
Approx. tree heights	5-10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

13 GARDEN STREET, CRANBOURNE EAST



Site Description- Cypress trees growing along the frontage. Low retention native and exotic plantings elsewhere on the site. No mature vegetation observed.

Species observed on site	Native and exotic
Approx. age of larger trees on site	10-20 years
Approx. tree heights	5-10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

11 GARDEN STREET, CRANBOURNE EAST

Site Description- Young and semi mature plantings are growing within the front setback. Native Swamp Melaleuca (regrowth) growing in the rear yard requires a targeted assessment as it may be over 10 years old. This area has been highlighted in blue.

Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes (regrowth in rear yard)

9 GARDEN STREET, CRANBOURNE EAST



Site Description- No vegetation was observed growing in the rear yard. All vegetation growing within the front setback is young/semi mature in age.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	10- 20 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

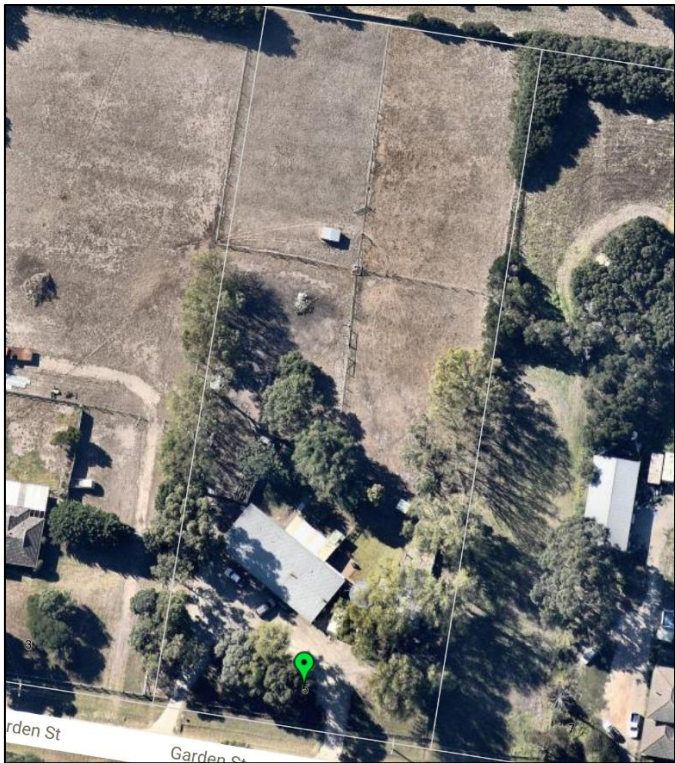
7 GARDEN STREET, CRANBOURNE EAST



Site Description- All vegetation on site looks like it has been planted for screening and wind breaks. Semi mature natives were observed within the front setback. No remnant vegetation was observed.

Species observed on site	Native
Approx. age of larger trees on site	10-20 years
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

5 GARDEN STREET, CRANBOURNE EAST



Site Description- Trees growing within the front setback are semi mature natives. Trees growing along the eastern boundary are exotic <i>Salix sp.</i> No trees observed are remnant and no further investigation is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

3 GARDEN STREET, CRANBOURNE EAST



Site Description- One semi mature eucalypt is growing in the front setback. The majority of vegetation on site is planted exotics. No further targeted assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

1 GARDEN STREET, CRANBOURNE EAST

Site Description- No vegetation is growing on this site.

Species observed on site	NA
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	NA

2 GARDEN STREET, CRANBOURNE EAST



Site Description- The larger semi mature trees growing on this site face Mayfield Road. Smaller insignificant native plantings are found throughout the site. Street tree plantings are located adjacent Garden Street. These trees are semi mature in age. No remnant vegetation was observed on site.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

4 GARDEN STREET, CRANBOURNE EAST



Site Description- Semi mature planted Eucalypts were observed on site. No trees over 25 years were assessed. Trees growing within the road reserve are planted Eucalypts. No further targeted assessments are required.

Species observed on site	Native
Approx. age of larger trees on site	Semi mature
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

49 COLLISON ROAD, CRANBOURNE EAST

Site Description- Dense population of planted native vegetation growing around boundaries. Mature Eucalypt trees growing towards the middle to the site require further assessment. The Garden Street road reserve is also densely planted out with Blue Gums and understory that could be regrowth over 10 years old. A targeted assessment of this site and road reserve is required.

Species observed on site	Native
Approx. age of larger trees on site	Semi mature/mature
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

47 COLLISON ROAD, CRANBOURNE EAST



*Guard dogs on site

Site Description- Planted exotic Cypress trees are growing along the southern boundary. Semi mature to mature native tree are growing along the northern boundary. No remnant vegetation was viewed from the street.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature - mature
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

45 COLLISON ROAD, CRANBOURNE EAST

Site Description- Dense exotic screen plantings growing within the front setback. Native trees growing in the rear yard require a targeted assessment. Site access is required.

Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

43 COLLISON ROAD, CRANBOURNE EAST



Site Description- The majority of vegetation growing on this site is exotic plantings with smaller planted Eucalypt trees also viewed. No mature or remnant vegetation was observed on site.

Species observed on site	Native and exotic
Approx. age of larger trees on site	10 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

41 COLLISON ROAD, CRANBOURNE EAST



Site Description- Planted Eucalypt trees are growing along the southern boundary. Exotic Cypress trees are growing along the northern boundary.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature/mature
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

39 COLLISON ROAD, CRANBOURNE EAST



*Guard dogs on site

Site Description- Very little native vegetation observed on site. Majority of vegetation is exotic plantings.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	No

37 COLLISON ROAD, CRANBOURNE EAST



Site Description- Exotic plantings are growing along the rear boundary. All native vegetation growing on site is assessed as planted and no further targeted assessments are required. Two native planted street trees are growing within the road reserve.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

35 COLLISON ROAD, CRANBOURNE EAST



Site Description- The front setback has been planted out with exotic specimens. No native trees observed within the rear yard are mature.

Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

33 COLLISON ROAD, CRANBOURNE EAST



Site Description- No remnant trees observed within the front setback. Native trees growing within the rear yard look to be planted but I cannot confirm without a closer targeted inspection. The trees that require a further inspection have been highlighted in blue.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	25 years plus
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

31 COLLISON ROAD, CRANBOURNE EAST



Site Description- All native tree growing along the northern boundary have been assessed as planted vegetation.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	25 years
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

29 COLLISON ROAD, CRANBOURNE EAST



Site Description- The entire front setback is planted with exotic Cypress trees. One semi mature native Eucalypt was observed growing along the southern boundary. No native vegetation on site is considered remnant.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	15 years plus
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

27 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense planting of semi mature native and exotic specimens. No mature or remnant vegetation was observed. Two planted semi mature Blue Gums are growing within the road reserve.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

25 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense native vegetation on site. Unable to view trees growing in the rear yard from the road side. A targeted assessment of native vegetation growing within the rear yard is required. The area of targeted assessment is been highlighted in blue.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature - mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

23 COLLISON ROAD, CRANBOURNE EAST



Site Description- Dense Eucalypt plantings within the front setback. No mature or remnant vegetation observed from roadside.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

21 COLLISON ROAD, CRANBOURNE EAST



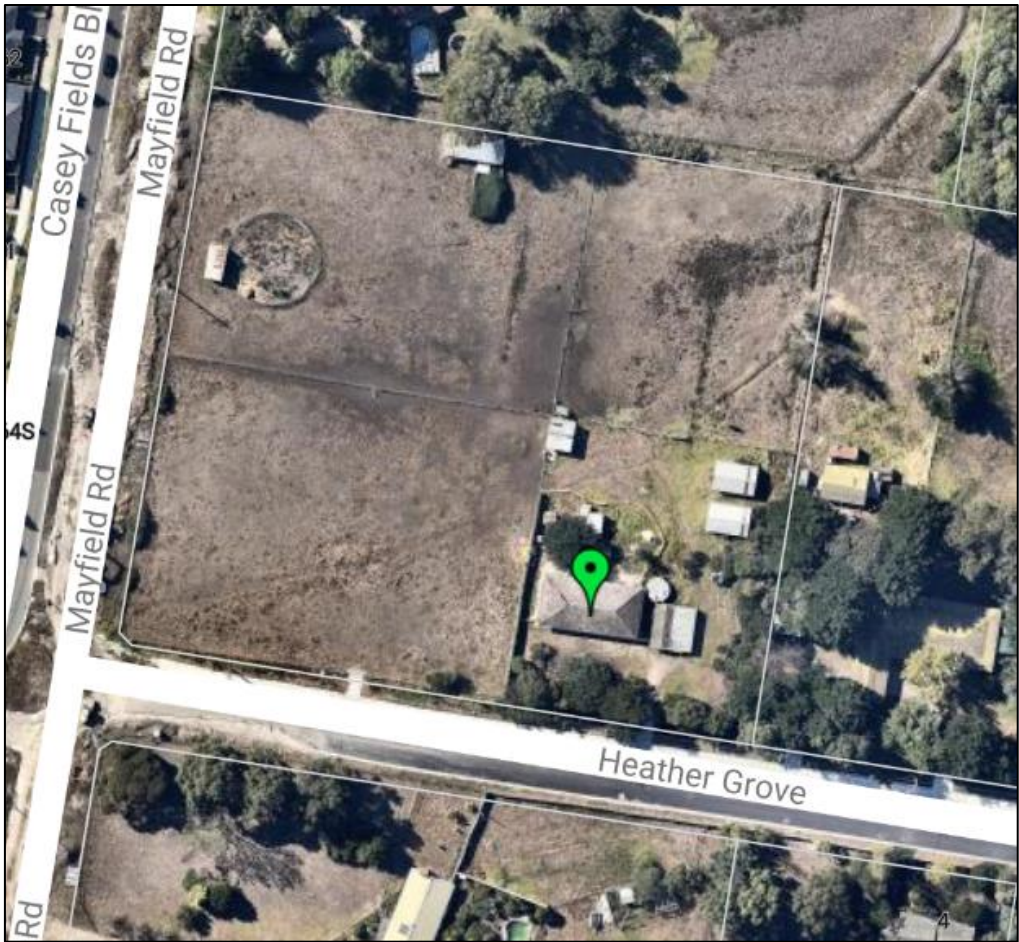
Site Description- Semi mature planted Eucalypt trees were observed within the front setback. No remnant vegetation noted.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature
Approx. tree heights	13 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

3 HEATHER GROVE, CRANBOURNE EAST



Site Description- Larger trees on site are planted Cypress. No semi mature native vegetation was observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	NA

1 HEATHER GROVE, CRANBOURNE EAST



Site Description- Larger trees on site are planted Cypress. No semi mature native vegetation was observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	NA

46 MAYFIELD ROAD, CRANBOURNE EAST

Site Description- Semi mature Eucalypt trees are growing within the front setback of the property. No mature vegetation was observed on the property.

Species observed on site	Native and exotic
Approx. age of larger trees on site	20 years
Approx. tree heights	10 – 15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

44 MAYFIELD ROAD, CRANBOURNE EAST

Site Description- Mature *Eucalyptus sp* growing within the front setback. Larger trees in the rear yard are exotic.

Species observed on site	Native and exotic
Approx. age of larger trees on site	20 plus
Approx. tree heights	15 metres plus
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

42 MAYFIELD ROAD, CRANBOURNE EAST

Site Description- The front setback is clear of vegetation. Three semi mature Eucalypts are growing in the rear yard. No trees on site are mature or remnant.

Species observed on site	Native
Approx. age of larger trees on site	15-20 years
Approx. tree heights	12 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

40 MAYFIELD ROAD, CRANBOURNE EAST

Site Description- Dense native plantings within the front setback of the property. No trees over 25 years old were observed growing within the front setback. Number 40, 38, 36, 34 and 32 Mayfair Road have dense vegetation plantings and each site is side by side. Further targeted tree assessments of these sites is recommended.

Species observed on site	Native
Approx. age of larger trees on site	15-25 years
Approx. tree heights	10-12 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

38 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Semi mature and mature native plantings were observed within the front setback of the property. No trees on site are assessed as remnant. Number 40, 38, 36, 34 and 32 Mayfair Road have dense vegetation plantings and each site is side by side. Further targeted tree assessments of these sites is recommended.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	20-30 years
Approx. tree heights	10 -15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

36 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Semi mature and mature native plantings were observed within the front setback of the property. No trees on site are assessed as remnant. Number 40, 38, 36, 34 and 32 Mayfair Road have dense vegetation plantings and each site is side by side. Further targeted tree assessments of these sites is recommended.	
Species observed on site	Native
Approx. age of larger trees on site	Semi mature - mature
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	Yes

34 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Dense native plantings within the property boundaries. 40, 38, 36, 34 and 32 Mayfair Road have dense vegetation plantings and each site is side by side. One mature <i>Eucalyptus viminalis</i> growing in the front setback. This particular tree has been highlighted in blue and a photograph has also been provided. Further targeted tree assessments of these sites is recommended.	
Species observed on site	Native and indigenous
Approx. age of larger trees on site	Semi mature - mature
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

Site Inspection Notes 30/01/2019 – Due to the density of vegetation on site a targeted vegetation assessment was commissioned to identify if any vegetation growing on site may be considered remnant. One *Eucalyptus viminalis* that is indigenous to the area is growing within the front setback (location highlighted in the in the plan above) is approximately 40-50 years old. While the tree isn't considered remnant, it is healthy and in good condition. It cannot be determined if the single *Eucalyptus viminalis* was planted or naturally established. No trees or other vegetation observed during this targeted assessment at 34 Mayfield Road, Cranbourne East are remnant and all other vegetation growing on site is exempt from requiring a permit under clause 52.17.

32 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Semi mature and mature native plantings were observed within the front setback of the property. No trees on site are assessed as remnant. Number 40, 38, 36, 34 and 32 Mayfair Road have dense vegetation plantings and each site is side by side. Further targeted tree assessments of these sites is recommended.

Species observed on site	Native
Approx. age of larger trees on site	25
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

Site Inspection Notes 30/01/2019 – Due to the density of vegetation on site, a targeted assessment was undertaken to identify if any vegetation growing on site may be considered remnant. No trees of other vegetation observed during this targeted assessment growing at 32 Mayfield Road, Cranbourne East are remnant and all vegetation growing on site is exempt from requiring a permit under clause 52.17.

30 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- No trees on this site are worth retaining, all are planted with a mix of native and exotic.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

28 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Dense Eucalypt plantings within the front setback. These trees are all planted and no trees are considered to be remnant.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

26 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Young native and exotic plantings are growing within the front setback of the property. No significant vegetation on site.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

24 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- The larger trees on this site that are growing within the front setback are exotic. No native vegetation on site is worth retaining.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

20 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Four mature Eucalypt trees growing adjacent Heather Grove. Trees are healthy in good overall condition. The four trees look to have been planted to provide screening from Heather Grove. No remnant trees were observed.	
Species observed on site	Native
Approx. age of larger trees on site	25-35 years
Approx. tree heights	12 metres plus
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

18 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- Dense population of what look to be planted native and exotic trees on the site. Further targeted tree assessment of vegetation located within the rear yard is required. Unlikely to find remnant trees within the rear yard but cannot confirm.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	25-35 years
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

16 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing within the front setback are planted under 25 years old. No further assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

14 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing within the front setback are planted under 25 years old. No further assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

12 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing on the property are planted under 25 years old. No further assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

10 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing on the property are planted under 25 years old. No further assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

8 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing on the property are planted under 25 years old. No further assessment is required. No mature native vegetation was observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	Semi mature
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

6 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- No trees are growing on site.	
Species observed on site	NA
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	NA

4 MAYFIELD ROAD, CRANBOURNE EAST



Site Description- All native trees growing within the front setback of the property are planted under 25 years old. No further assessment is required.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	<25 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

175 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- Semi mature native trees are growing within the front setback of the property adjacent Berwick Cranbourne Road. None of these trees are assessed as being mature or significant.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	<25 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

181 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- Semi mature native trees are growing within the front setback of the property adjacent Berwick Cranbourne Road. Larger trees on site are exotic. None of these trees are assessed as being mature or significant.

Species observed on site	Native and exotic
Approx. age of larger trees on site	<25 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

183 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST

Site does not exist.

185 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- Semi mature native trees are growing within the front setback of the property adjacent Berwick Cranbourne Road. Larger trees on site are exotic. None of these trees are assessed as being mature or significant.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	<25 years
Approx. tree heights	10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

191 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- No semi mature natives observed on site. Site has been planted out with exotics specimens.	
Species observed on site	Exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

195 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- No mature native trees exist on site.

Species observed on site	Native and exotic
Approx. age of larger trees on site	NA
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	NA
Is further targeted assessment required on this site	NA

201 BERWICK CRANBOURNE ROAD, CRANBOURNE EAST



Site Description- All native vegetation growing within the front setback of the property is planted. No remnant vegetation observed on site. Seven native street trees have been planted adjacent to Collision Road.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	25 years
Approx. tree heights	12 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

3 COLLISON ROAD, CRANBOURNE EAST



Site Description- Native vegetation growing within the front setback of the property is approximately 25 years old. No remnant vegetation was observed.	
Species observed on site	Native
Approx. age of larger trees on site	25 years
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

5 COLLISON ROAD, CRANBOURNE EAST



Site Description- Larger mature natives are growing within the rear yard of the property. Not able to view and identify these trees from the roadside. A further targeted assessment of these trees are growing in the rear yard.	
Species observed on site	Native
Approx. age of larger trees on site	25 years
Approx. tree heights	10-15 metres
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

7 COLLISON ROAD, CRANBOURNE EAST



Site Description- All vegetation growing in the front setback is exotic. No other mature native trees was observed on site.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	15 years
Approx. tree heights	5-10 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

9 COLLISON ROAD, CRANBOURNE EAST



Site Description- Majority of vegetation growing onsite is exotic. Mature Eucalypt growing within the front setback. No other mature native trees was observed on site. Two street trees are not remnant.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	20-25 years
Approx. tree heights	10-15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

11 COLLISON ROAD, CRANBOURNE EAST



Site Description- Due to the dense population of native trees on site I was not able to view trees within the rear yard from the road side. A number of large trees exist in the rear yard. While it's unlikely these trees are remnant they do need require a further targeted assessment.	
Species observed on site	Native
Approx. age of larger trees on site	20-40 years
Approx. tree heights	10-20 metres
Significant trees	NA
Any habitat hollows observed	NA
Is further targeted assessment required on this site	Yes

13 COLLISON ROAD, CRANBOURNE EAST



Site Description- Four native trees growing within the front setback are planted native Blue Gums. No remnant vegetation was observed on site.

Species observed on site	Native and exotic
Approx. age of larger trees on site	20-30 years
Approx. tree heights	15 metres
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No



15 COLLISON ROAD, CRANBOURNE EAST



Site Description- Trees on site are a mix of planted native and exotic vegetation. No mature natives observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	10 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

17 COLLISON ROAD, CRANBOURNE EAST



Site Description- Trees on site are a mix of planted native and exotic vegetation. No mature natives observed.	
Species observed on site	Native and exotic
Approx. age of larger trees on site	10 years
Approx. tree heights	NA
Significant trees	No
Any habitat hollows observed	No
Is further targeted assessment required on this site	No

10.1.1 GLOSSARY OF TERMS

Amenity

Although difficult to quantify, the term as used in this report relates to the contribution given to the landscape or streetscape in terms of visual aesthetics. It may also relate to the contribution in terms of shade or protection from the elements.

Bifurcation

Forked or divided into two or more parts or branches. Used to describe a union point.

Branch Bark Ridge

Swelling of bark tissue on the upper side of the branch junction or union. Considered the normal pattern of development in contrast to included bark (from Matheny & Clark, 1994).

Branch collar

Trunk tissue that forms around the base of a branch between the main stem and the branch. As the branch decreases in vigour or begins to die, the branch collar becomes more pronounced. (AS4373).

Structural Root Zone (SRZ)

The Structural Root Zone (SRZ) is the calculated distance based on DBH only. The SRZ identifies the minimum radius at which the root plate cannot be disturbed. This measure only relates to the trees' stability and does not take into account the implications of a decline in health. The measurement is given in metres in a radius from the tree trunk. (Coder, 1996). This area may also be referred to as the Root Plate Radius (RPR).

Chlorotic

Discolouration of the leaves, yellow in colour resulting from a lack of chlorophyll

Codominant

Generally relates to trunks/ stems (although it may relate to scaffold branches within the crown) of two or more and of equal or similar size and relative importance (from Matheny & Clark, 1994).

Compartmentalisation

Physiological process which creates the chemical and mechanical boundaries that act to limit the spread of disease and decay organisms (from Matheny & Clark, 1994).

Decay

Degeneration and de-lignification of plant tissue, including wood, by pathogens or micro-organisms (AS4373).

Diameter at Breast Height (DBH)

DBH is measured at 1.4m above ground level. In cases where the tree has up to three stems the diameter is calculated by taking the area of each stem at 1.4 metres and calculating the combined diameter. In trees with more than three stems the measurement is provided as 'Multi-stemmed', however in some cases the diameter will be taken at the point below the multi-stemmed union.

Epicormic Shoots

Shoots which arise from adventitious or latent buds (usually dormant). They are generally produced in response to environmental stress.

Included Bark

The pattern of development at a branch union where bark is turned inward rather than outward or pushed out. Relates to the branch bark ridge. (from Matheny & Clark, 1994)

Live Crown Ratio

Relative proportion of healthy crown in proportion to overall tree height. Often not used in isolation due to the different natural forms of many species.

Lateral

A branch arising from another branch or stem (AS4373)

Lopping

Cutting back a limb or stem at any point with no regard to natural target pruning. Random cutting of branches or stems between branch unions or at internodes on young trees. Not considered an acceptable practice as part of the Australian Standard AS4373: *Pruning of Amenity Trees*.

Tree Protection Zone (TPZ)

The Tree Protection Zone (TPZ) (referenced from Australian Standard AS 4970 - 2009 - Protection of Trees on Development Sites; is the calculated distance based on the DBH of the tree. The TPZ addresses the physiological implications by retaining enough area around the tree not only to minimise the potential for complete tree failure but for the tree to survive in the landscape on a long-term basis. The measurement is given in metres in a radius from the centre of the trunk.

Senescence

The organic process of age and the deterioration of tissue within the tree.

Stem bark ridge

The ridge of bark that forms in the union between two codominant stems (AS4373).

Wound wood

Lignified, partially differentiated tissue which develops from the callus associated with wound or pruning cuts.

10.1.2 ORIGIN

Origin is given as Indigenous (the trees' natural range is within the study area), Native (the trees natural range is within Australia) or Exotic (the tree originates from outside of Australia).

10.1.3 HEALTH

Health relates to the tree vigour, live crown ratio and canopy density.

Health is rated according to the following categories:

Category	Description
Good	Crown is excurrent or decurrent with greater than 50% live crown ratio. Foliage density is greater than 70% at optimal growth. There is less than 10% canopy dieback present and foliage has no or very minor tip dieback. Tree may also have acceptable extension growth if it is in active growth and is showing no symptoms of nutrient deficiency. The tree also has good wound wood development.
Fair	Crown is excurrent or decurrent with 30-50% live crown ratio. Foliage density is between 50-70% at optimal growth for the species. There may be 10-30% canopy dieback present and foliage may have minor tip dieback. Tree maybe showing signs of normal growth but it is not consistent throughout the crown. Some foliage discolouration maybe present from possible nutrient deficiency or other cause.
Poor	The tree may have less than 30% live crown ratio and the canopy may be codominant or suppressed. There may be greater than 30% canopy dieback present and foliage density is below 50%. Stunted growth through leaf size or petiole extension and discolouration of the leaf may be present. Tree may be producing epicormic shoots as a stress response. Nutrient deficiency, lack of resources (water, light etc) or pathogens may be the causal agent in the tree's decline

10.1.4 STRUCTURE

Structure relates to the physical form of the tree, including the trunk(s), main scaffold branches and roots. Structure includes the attributes that may influence the probability of major trunk, limb or root failure.

Structure is rated according to the following categories:

Category	Description
Good	The form of the tree is typical for the species and exhibits good symmetrical form. Major limbs are well formed with acceptable branch taper and unions appear to be strong with no signs of defects. The tree has minimal defects throughout the trunk and limbs. There is no sign of root plate heave or damage to the root system. The tree is unlikely to suffer branch or trunk failure under normal environmental conditions.
Fair	Tree has a fairly consistent form for the species. Tree may exhibit minor structural defects that may be managed through formative pruning. Only minor wounds are present that do not affect the overall stability or structural integrity of the tree. Minor root damage may have occurred in the past. Defects present are likely to cause only minor branch failure under normal environmental conditions.
Poor	Tree has a poorly formed crown that is not symmetrical. Branch and or trunk taper may be unacceptable and scaffold limbs may be overextended. Branch unions may exhibit significant defects that cannot be managed through formative pruning. Major root damage may have occurred and there may be evidence of root plate heave. Defects that are present may result in catastrophic failure of branches or trunk under normal environmental conditions.

10.1.5 AGE CLASS

The age class is given as a guide to the current live stage of the tree. Ultimately, the level of maturity that a tree may reach is dependent on the growing environment.

Age Class is rated according to the following categories

Category	Description
New Planting	Planted within approximately 2 years
Juvenile	Generally less than 5 years old
Young	Estimated as less than 15 years old
Semi-mature	Estimated at between 15 – 25 years old, however, this may be species dependant
Mature	Estimated at over 25 years old or in a life stage that is considered at the peak of growth for the species.
Senescent	In the declining phase of the trees lifespan

10.1.7 TERMS AND CONDITIONS

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