

ATTACHMENT 8 – ARBORICULTURE ASSESSMENT REPORT

Planning Proposal – SP20018 – Croft Developments (November 2021)

**ARBORICULTURE IMPACT ASSESSMENT
PROPOSED UNIVERSITY PARK AGED CARE AND RESIDENTIAL
DEVELOPMENT – JANUARY 2021.
HELY AVENUE TURVEY PARK, WAGGA WAGGA, NSW 2650.**

Prepared for Croft Developments Pty Ltd.
Clinton Witnish - Project Planning Manager
PH: (03) 9581 0109 | Mobile: 0400 345 944

Report Dated - 14 January 2021.

1. INTRODUCTION & BACKGROUND.

There is a development proposal for the site known as the old Charles Sturt University South Campus - 20 Hely Ave TURVEY PARK NSW 2650 - Lot 2 DP 1183166122850, by Croft Developments Pty Ltd.

The lot is some 13 hectares in size. The development includes the demolition of existing buildings and construction of aged care facilities and residential lots over two stages across the whole site.

Wagga Wagga City Council (WWCC) Development Application 19/0001 applies to stage 1. An arboricultural Impact Assessment report was prepared for stage 1 – and all matters in that report stand as reported. WWCC consent has been issued for that application.

WWCC Development Application CC 20/0445 was also lodged for Bulk Earth Works across the site. An arboricultural assessment and protection plan was developed for that portion of the overall development. All matters in that report and protection plan stand as accurate. WWCC consent has been issued for that application.

A further Development Application is intended for the remaining 98 lot Residential Section of the overall development. This report has been prepared for this application.

2. SCOPE AND PURPOSE.

This report has been commissioned by Mr Clinton Witnish, Project Planning Manager with Croft Developments Pty Ltd. He can be contacted on 0400 345 944.

The site has numerous established trees of various species, condition and age. Identification and review of the tree population is required as part of the development process to provide recommendation for retention or removal of trees.

The report is designed to;

- identify current tree population – species and locations
- provide reporting on tree condition
- provide guidance on retention values or removal of trees relative to the proposed development
- provide details and guidance on any other issues identified in the assessment.
- Identify issues that are required to be managed across the development for the basis of a Tree Management Plan.

Following plan was provided by Croft Developments to assist with the development impacts on trees;

Annexure 1.

Master Plan – University Park Aged Care and Residential Development - 20 Hely Avenue Turvey Park, City of Wagga Wagga. Drawing number P-1901-01-D. Dated 24.11.20

A marked up version of this file is contained as Annexure 1. Note – not all trees are contained on the Master Plan.

Annexure 2.

A Tree Data File in Microsoft Excel format was developed to document tree locations, full tree details, findings and recommendations. That file has been included at the bottom of this report as Annexure 2. The tree Data file contains full details of terminology and grading systems applied. The Excel format file can be provided to any relevant party on request.

Annexure 3.

GPS Tree locations have also been determined with tree numbers and is provided in a printed overlay of Google Earth as Annexure 3. This may be of some assistance in determine location of some trees that do not appear on Annexure 1.

Tree population was initially inspected and details recorded through the month of February 2019. A further section of the development on the west side adjacent to the new Ambulance Station was added after 2019, and those trees were inspected June 2020.

Visual Trees Assessment (VTA) was utilised as the mode of inspection. VTI is the mainstay of tree hazard identification and management and is the most suitable method of evaluation of this type of situation (Lonsdale 1999). No underground inspections were conducted. This author conducted an evaluation of many of these trees in February 2015 on behalf of Charles Sturt University who was the owner of the property at the time. Information in this report contains some reliance on information and reporting supplied at that time. This report does not address any specific heritage values that may be associated with the tree population.

Findings, calculations, and recommendations are the author's interpretation of *Australian Standard 4970-2009 – Protection of trees on development sites*.

Photographs are provided to demonstrate salient issues.

Table A – Provides details on Interpretation of Hazard Rating Applied to Stated Defects.



Diagram One – Site Location identified as SP2. New west section is hatched in white – which now forms part of the development site.

Source adapted from Wagga Wagga City Council Intramaps; Planning Map 2019.

3. SITE CONDITIONS AND BACKGROUND.

The site comprises some 13 or more hectares. Until recently the site formed the Wagga Wagga South Campus of Charles Sturt University. The facility has a number of buildings in various condition, some of which have now been demolished. Much of the facility was open space, dryland grass areas, irrigated lawn areas, and accordingly there were numerous tree plantings over many decades. There are 16 trees or groups of trees that are considered 'Remnant'; located in the south west section of the development adjacent to the new Ambulance Station.

228 Tree points are identified in this assessment. Five of the data points contain multiple young trees – effectively there are some 400 young endemic and Australian Native species trees that make up these 5 data points. Many of the established trees are Australian Natives, age and the condition of the trees varies greatly.

Of some note is a line of 138 *Eucalyptus cladocalyx* (Sugar Gums) along the perimeter fence of Fernleigh Road, Hely Avenue and Charleville rd. These trees provide notable visual amenity values to residents in these streets that face the development site.

It needs to be acknowledged that the site is located in a **High Risk Urban Salinity area** (Madden and Slinger 2000), and whilst this report is not intended to directly address salinity issues, it needs to be acknowledged that tree vegetation is a very important in maintaining water table depths and preventing outbreaks of dryland salinity which can be highly degrading on the environment and infrastructure.

It should also be noted that from a landscape maintenance perspective the site was intensively maintained with gardens and irrigation into the early 2000's when a prolonged period of low rainfall (drought) prevailed from 2002 to 2009, which coincided with a down scaling of use by Charles Sturt University, and **a much reduced irrigation program**. This had detrimental impacts for some of trees which were reliant on supplementary irrigation and some were species that are not suited to the lower local rainfall. Subsequently this has resulted in many trees being removed over the last 10-15 years, and a number now that are in poor condition or decline.

It should also be noted that the development would potentially now **place trees in high use amenity areas**, opposed to current low use amenity areas. This has significant safety management implications, which is discussed further below.

4. SUMMARY OF INSPECTION RESULTS.

The following points provide a summary of the inspection findings. *Annexure 2 – Tree Data File* contains full details on descriptors and evaluation/rating methodology

Tree Species.

- 228 Data points or groups of trees were identified. 400 young saplings for 5 of the tree number or data points.
- 29 different tree species were identified.
- By far the most common species was *Eucalyptus cladocalyx* (Sugar Gum) 149 trees.
 - The next common was Arizona Cypress (*Cupressus arizonica*) with 23 trees and 2 lines of trees.
- 16 Endemic or indigenous species data points were identified *Eucalyptus albens* (White Box) and *Eucalyptus microcarpa* – (Grey Box).
 - This includes the 400 or so young saplings
 - 4 Very Significant Trees based on Environmental Values
 - Trees – 258, 260, 261 and 268.
 - 1 Significant tree based on environmental value.
 - Tree 263.
- 6 other trees were identified as significant
 - Trees 34, 51, 2225, 242, 243, 244,

- 191 trees are Australian Native species or endemic to site.
- 37 Trees are exotic species.
- Noted that Australian Natives make up the majority of the tree population.

Tree Condition.

- 6 Tree were identified in Excellent Condition
- 34 Trees in Good Condition
- 90 Trees in Fair Condition
- 86 Trees in Poor Condition
- 12 Trees in Very Poor Condition.

Tree Condition normally has a direct impact on the Retention values and hazard rating of trees.

Noted that the majority of trees are classified in Fair to Poor condition.

Environmental Values.

- 4 Trees were identified with Very High Environmental Values – the development proposes to retain all 4 of these trees.
 - Trees 258, 260, 261, and 268.
- 5 Trees were identified with High Environmental Values – the development proposes to retain 4 of these trees.
 - Retained Trees 51, 242, 243, 244,
 - Tree 263 is indicated as removal by development.

Retention Values

- 5 Trees identified with excellent retention values.
- 17 Tree identified with Good retention values.
- 48 Trees with Fair retention values.
- 85 Trees with Poor retention values
- 73 Trees with Very Poor Retention values.

Noted that the majority of the tree population have poor or very poor retention value.

Joining Property Trees.

Trees 38, 39 and 40 are located on the joining school grounds. It should be noted that the development is likely to have direct impacts to trees 38 and 40 which will be required to be managed.

Background - Variation and suitability of Species at Site.

Most of the site was well irrigated until around 2003 when there was a prolonged period of low rainfall from 2002 and water restrictions were applied across the Wagga Wagga Area. This below average rainfall event lasted until 2009 and the site did not receive any appreciable

irrigation again. The use of the facility also changed. Because of greatly reduced irrigation water over the summer months many of the trees have declined, died or have already been removed due to poor condition, death or safety concerns.

There is a wide variety of species noted. Australian Natives dominate the species list. Successful species selection, or trees that have coped well with little or no supplementary irrigation would be noted as

- *Eucalyptus albens* (White Box) – endemic to site.
- *Eucalyptus microcarpa* (Grey Box) – endemic to site.
- *Corymbia citriodora* (Lemon Scented Gum)
- *Eucalyptus cladocalyx* (Sugar Gum)
- *Cupressus arizonica* - Arizona cypress.

Less successful species that did not cope with the change include;

- *Eucalyptus viminalis* (Ribbon Gum),
- *Eucalyptus mannifera* (Brittle Gum)
- *Eucalyptus dalrympleana* (Mountain gum)
- Other *Fraxinus* species,
- *Quercus palustris*, (Pin Oak)
- *Platanus acerifolia* (London Plane Tree)



Photo 1 – Tree 225 – Medium *Corymbia citriodora* (Lemon Scented Gum). Species that has coped with reduce irrigation and identified for retention as a mature tree in good condition – will be incorporated into the development.



Photo 2 – Tree 34 – Medium to large *Corymbia citriodora* (Lemon Scented Gum) identified for retention as a mature tree in good condition – will be incorporated into the development



Photo 3 – Tree 268 *Eucalyptus albens* (white Box). Aged tree with very high environmental values – hollows present. Example of Tree to be retained.

Note Tree data point 269 – some 75 young saplings (*Eucalyptus albens*) that have germinated around the aged tree since ground maintenance activities have ceased on the site some 15 or more years ago



**Photo 4 – Group of
Eucalyptus albens (White
Box).**

Tree 257 – Large Sapling

*Tree 259 – group of 18
smaller saplings*

*Tree 258 – Very Significant *E.
albens* - aged tree is
contained in the middle of the
group of trees.*

*Tree 258 is to be retained –
most of the saplings are
marked for removal*

Line of 138 *E. cladocalyx* (Sugar Gums) Fernleigh Road, Hely and Charleville boundary fence.

There are 138 Mature and Overmature *E. cladocalyx* (Sugar Gums) that line the boundary fence of Fernleigh Road, Hely Avenue and Charleville Road. The stem centres are a little over 4m from the boundary fence. Stem centres are about 4-5 meter centres. Several trees are large, most are medium trees about 16-20 meters.

The tree condition is described as follows.

- 14 Trees are graded as Good Condition.
- 64 Trees are graded as Fair Condition.
- 54 Trees are graded as in Poor Condition.
- 6 Trees are graded in Very Poor Condition.

Nearly all the trees have sustained some limb or stem failure. Many have sustained multiple failures, and many have some high risk or impending failure present.

Retention Value of these trees was determined as follows;

- 5 Trees with Good retention value
- 32 Trees with Fair retention value
- 59 Trees with Poor retention value
- 42 Trees with Very Poor retention value.

Noted that the majority of the trees as individual trees have poor or very poor retention values. The line of trees clearly provide strong amenity and visual values, and they directly contribute to control of salinity that is of issue in this area of Wagga Wagga. The trees are currently in an area that has very low occupation or use by people. Regular tree/limb failures do not currently present an unacceptable risk of harm to people. With development, the trees will be directly placed into a high use urban setting. The majority of the trees have elevated failure potential which needs to be considered.



Photo 5 – Tree 112 –
E. cladocalyx (Sugar
Gum) mid-section of
Fernleigh Road – with
failed stem hanging in
canopy.



Photo 6 – Recent failed limb from one of the trees on Fernleigh Road boundary.



Photo 7 – Trees 181 on right and tree 183 on left. Hely Avenue fence – both have sustained significant failures recently. Tree 181 on right has a further impending stem failure and cannot be retained.



Photo 8 - Tree 181 – close up of remaining stem structure – Extreme risk of further failure.



Photo 9 – Tree 193 – tree has notable 15-20 degree lean to North West, soil heaving on opposite side of stem – tree has moved in the ground – high to extreme risk of failure.



Photo 10 – Tree 222 – *E. cladocalyx* (large Sugar Gum) – west tree Charleville Road boundary – example of Parrot habitat, unfortunately there is a significant defect as circled that hangs over the footpath. Tree cannot be pruned to Australian standard 4373 – it is recommended for removal.



Photo 11 – Tree 138 –stem failure in tree Hely Avenue – north stem is leaning in joining tree – further failure highly likely. Tree will have to be removed.

Tree 51 – Very Large *E. cladocalyx* (Sugar Gum). Tree 51 is located near the south western boundary. The tree is described as very large – with a stem diameter of 2m. The canopy is very extensive spreading some 35 meters in diameter. The tree has sustained at least 20 limb failures over time between 100 and 300mm diameter. There are 12 or more defects noted in the canopy some described as high risk.

The tree has significant visual impact and high environmental values based on some nesting hollows, the size of the tree, and the species is well accepted by native birds as a substitute for indigenous species.

The tree is identified as a significant tree, and will be retained in the development. The tree protection zone is 15m radially. The tree will also require significant management inputs to remedy the limb failure potential it currently has. Noted that it sustained 2 further limb failures in November 2020.



Photo 12 – Tree 51 – Very Large *E. cladocalyx* (Sugar Gum). Significant visual impact.



Photo 13 – Tree 51 – Example of nesting hollow.



Photo 14 – Tree 51 – Example of High risk defect in canopy that will need to be managed when the tree is placed into a high use amenity situation.

5. SUMMARY OF RECOMEMNDATIONS AND DEVELOPMENT PROPOSAL.

Table 1 provides a summary of the arboricultural assessment or grading of the tree population and the development proposal.

Table 1 – Summary of Arboricultural Assessment and Development Proposal.			
Arboricultural Assessment	Number of Trees	Development Proposal – Jan 2021	Comments
Retain Priority	15	Retain 14 Remove - 1	Tree 263 to be removed
Retain	42	Retain 2 Remove 6 Not determined 34	100 <i>E. cladocalyx</i> to be further considered
Retain if Possible	48	Remove 14 Not determined 34	6 <i>E. cladocalyx</i> to be further considered
Remove	101	Remove 54 Not Determined 47	19 <i>E. cladocalyx</i> to be further considered
Remove Priority	22	Remove 7 Not Determined 15	8 <i>E. cladocalyx</i> to be further considered
Totals	228	Retain – 16 Remove 82 Not Determined - 130	

- 1 Tree identified as Significant Tree is proposed for removal – Tree 263 – Remnant *Eucalyptus albens* (White box)
- 130 Trees are marked as not Determined. This relates to the line of 138 *Eucalyptus cladocalyx* on the boundary of Fernleigh Road, Hely Avenue and Charleville Road. See Discussion section below.
 - Trees 99, 100 and 101 are identified for removal for road access off Fernleigh Road.
- 26 of the 82 Trees marked for development removal are identified as exempt height or species under *WWCC Development Control Plan 2010 – Part B – Section 5 - Natural Resource and Landscape Management*.

6. DISCUSSION ON DEVELOPMENT AND CURRENT TREE POPULATION.

I would suggest that a development such as this, would be expected to be viable for potentially 40-50 years or more from construction. As such the decision to retain trees needs to evaluate the potential for the tree or group of trees to be a viable asset for the next 20 or more years, unless there is some overriding and compelling reason to retain the tree for cultural, heritage or immediate environmental reasons. Retention of individual trees is often a complex and expensive exercise in developments. Trees impacted by development are nearly always asked to cope with reduced and altered root zones which often results in some decline in tree health. The calculated Tree Protection Zone (AS 4970-2009) reflects only a portion of the existing root system that normally exists, and soil impacts up to the nominated TPZ remove significant portions of existing root systems.

I would suggest the key questions in evaluation of the tree population should be;

- Will the tree or group of trees still be a reasonable quality asset in 20 or more years' time?
- Will the tree pose an unacceptable risk within that period and require removal?
- Can safety concerns and existing tree hazards be suitably ameliorated with reasonable cost to development and some reasonable outcome for the tree.
- Can the overall losses or impacts of the tree or trees be acceptably compensated by replacement landscape and trees?
- Will a new landscape provide better aesthetic values or enhance the environmental and ecosystem outcomes over the current position?

Much of the overall consideration hinges around the current or present tree condition. If trees are in poorer condition, (Score 5, 4 or lower side of 3) they will have various issues that include;

- structurally unsound,
- higher levels of decay,
- serious or higher risk defects,
- obvious poor vigour – signs of tree decline.

Such trees are generally not worth persisting with unless they have some elevated values in cultural, heritage or environmental considerations. Notable resources will be required to preserve the tree on the construction site and likely into the future. It is nearly always the case that the tree is asked to cope with root removal and reduce root space.

Setting aside the line of 138 *Eucalyptus cladocalyx* (Sugar Gums) that line the boundary of the development property, the development proposal retains;

- 14 of the 15 trees identified as Significant or very significant – evaluated as ‘Retain Priority’.
- Trees that have further retention value as ‘Retain; or ‘retain if possible’ total 21. Only 2 of which are to be retained.

Save for tree number 263 – all significant trees are retained.

Discussion – 138 *Eucalyptus cladocalyx* (Sugar Gums) on property boundary lines.

The arboricultural assessment and the Development has identified the strong aesthetic values of these trees, and their contribution to salinity control. At this point no definitive application is made relative to each individual tree. Given the design of the residential lots, it presents that many of the trees will require application for removal to accommodate development of driveways to access lots. Some of the trees are structurally unsound and definitely should not remain in a new amenity setting.

The following is a brief summary of the 138 Trees.

- Only 37 are graded as having good or fair retention values. None were graded excellent.
- Trees 242 and 243 were graded as retain as priority as significant trees – and are to be retained.
- 34 have been graded as ‘retain’ value
- 36 have been graded as ‘retain if possible’
- 50 Have been graded for ‘removal’
- 16 have been graded as ‘priority for removal’

Effectively as individual trees 66 of the 138 trees have been assessed or graded as removal on safety and condition issues. These 66 trees are defiantly not suitable for retention in an urban amenity setting. It is also noted that there was application by Charles Sturt University to remove a number of the trees on safety concerns, and subsequently removal of 29 trees was granted by WWCC under DA 15/0637. This did not occur.

There is a direct conflict between the environmental and amenity values the line of trees provides relative to the condition and elevated failure potential the trees have moving into an urban amenity situation.

7. FINDINGS AND RECOMMENDATIONS.

- A. For anyone who has observed the area over the last 15-20 years it is quite clear that the tree population has slowly diminished due to tree decline and tree removal due to tree death and safety issues. This is linked in part to cessation of irrigation and species selection which has led to a current tree population that is generally in poor condition. Lopping of trees for powerline clearance has exacerbated this issue. This needs to be considered by planning authorities.

- B. Excluding the 138 *E. cladocalyx* (Sugar Gums) on Fernleigh, Hely and Charleville the arboricultural impact assessment broadly supports the development proposal as per Master Plan – Annexure 1. Excluding the 138 *E. cladocalyx* (Sugar Gums) on Fernleigh, Hely and Charleville boundary I recommend that the trees identified in Annexure 1 for removal are removed as part of the Development application, and those that are for retention are protected prior to and as part of the Development.
- a. The following item is recommended for review;
 - i. Tree 263 is a significant tree and it is recommended that retention of this tree is reviewed as feasible.
- C. The line of 138 *E. cladocalyx* (Sugar Gums) on Fernleigh, Hely and Charleville boundaries require further detailed evaluation in the following context.
- a. Some of the trees will need to be removed due to safety and condition.
 - b. Some of the trees will require removal to allow access to the new residential lots.
 - c. Some of the trees in fair to good condition should be retained long term to sustain the current amenity values, screening and salinity control.
 - d. There needs to be a detailed analysis of where and what new trees can be established as a visual screen to offset the loss of the trees that have to be removed.
 - i. There is potential for offset or new plantings on the Council nature strips.
 - ii. There will be opportunity for replacement trees on the development boundary where trees are removed.
 - e. Pruning options will resolve some of the unacceptable risk in some of the trees.
 - f. Council should be consulted regarding how these issues can be worked through and resolved – potentially some residents may also be consulted.
 - g. Recommendation – that the issues regarding these trees is discussed in detail with council and that a further evaluation of the trees is undertaken relative to each individual lot and which trees are identified as long term assets and their relative tree protection zone, and those that need to be removed for safety issues and lot access; and where new trees can be established to offset the loss of about 50% of these trees.
- D. A detailed landscape plan is developed and implemented that will provide increased environmental benefits and aesthetic values to the current position, including salinity control – areas where suitable tree vegetation is strategically placed to intercept ground water with the use of tree vegetation where possible.
- a. I would suggest that Wagga Wagga City Council and adjoining residents will be seeking assurances that building development and changes to the landscape enhance both amenity values and environmental values across the whole site and development planning needs to positively address this in the early stages
- E. The detailed Project Tree Management Plan developed for Bulk Earth Works approval should be expanded and updated to meet the requirements of this portion of the overall development.
- a. The Tree Management Plan needs to address the following key requirements.
 - i. Clearly identify on site the trees to be removed and those to be retained. The Project Arborist should clearly identify these PRIOR to any demolition or tree removal.

- ii. Clearly identify and specify tree protection zones for tree to be retained and restrictions and procedure for any entry and works within tree protection zones.
- iii. Specify specific mitigation measures for trees where close contact to the construction processes will occur.
- iv. Specify pruning requirements for all retained trees.
- v. Provide time frames for these matters to occur.
- vi. Specify further inspection resumes during the course of the demolition, earth works and construction phases and the immediate period beyond – hold points for involvement of the Project Arborist.
- vii. Other amelioration measures that may be prudent or applicable, such as fencing, mulching, irrigation events, other inspections that might be required by arboriculture consultant – Project Arborist.
- viii. Clearly identify and protect the three trees on the joining property.

Terms, Conditions and Limitations that apply.

Obviously, visual tree assessment from the ground has some limitation as every single portion of the tree cannot be observed or inspected. Most or the large majority of defects and tree issues can be observed from the ground. Where aerial inspection or other investigative means should be considered the report or email will recommend or provide those as an additional consideration.

Trees are a valuable asset and necessary part of both the urban and natural environment. They are the cornerstone of our environment and provide numerous benefits to our social wellbeing, biodiversity and ecology of any area. They provide water balance stability, salinity and erosion control, amenity, cultural, public health and aesthetic benefits; efforts should be made to preserve and plant new trees where possible. As an asset they require appropriate management and resource inputs.

It should be noted that trees cannot be guaranteed 'risk free'. All trees represent some degree of risk. Arboriculture is not an exacting science; rather it is an educated interpretation of the interaction of biotic and environmental circumstances, which change over time. It is not possible to determine or predict all limb or tree failures. This report is such an interpretation at the time of inspection.

Unless Quantified Tree Risk Assessment (QTRA) has been specifically applied and reported, then this report or email does not constitute a risk assessment. The Author does not seek to determine what level of risk any individual or organisation is prepared to accept but serves to provide tree managers with tree condition, hazards and other salient issues associated with the tree or trees; and provide or recommend management options.



Wade Ryan.

BAppSc(EnvHort) and AdvDip OH&S

Cert II – Horticulture/Arboriculture

QTRA – (Quantified Tree Risk Assessment - Registered Advance User)

Member – ISA (International Society of Arboriculture) 257486

Associate Member – IACA (Institute of Australian Consulting Arboriculturists)

References.

Australian Standard 4970-2009 *Protection of Trees on development sites*.

Australian Standard 4373 -2007 *Pruning of Amenity Trees*.

Lonsdale, David (1999). *Principles of Tree Hazard Assessment and Management*. pp 146. Dept. for Transport, Local Government and the Regions. London.

Madden, E. and Slinger, D. (ed) (2000). *Urban Salinity in Wagga Wagga*. City of Wagga Wagga – NSW Land and Water Conservation

WWCC (2018). Wagga Wagga Development Control Plan 2010. Wagga Wagga City Council, accessed online 4/04/2018 at;

<http://www.wagga.nsw.gov.au/city-of-wagga-wagga/planning-dev/plans,-policies-and-controls/wagga-wagga-planning-documents>

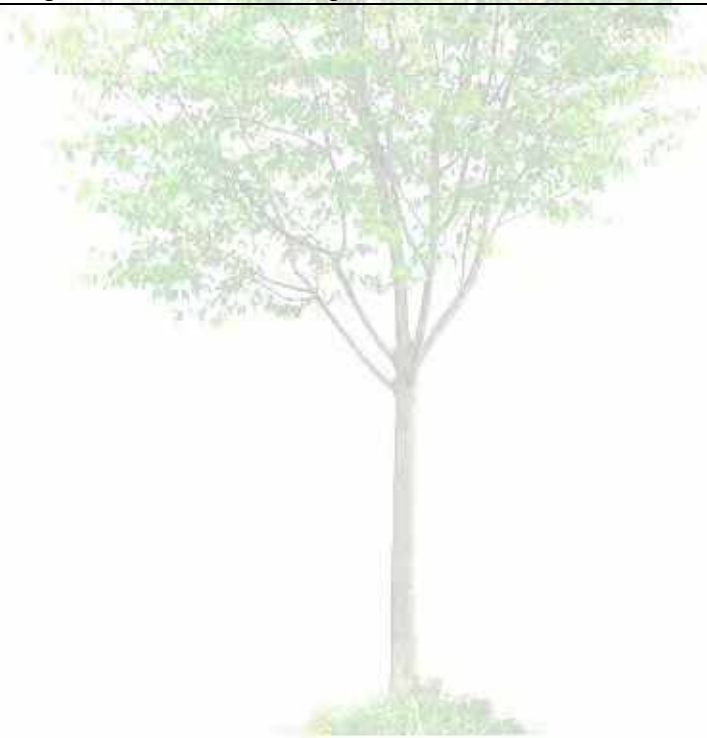
Table A - Interpretation of Hazard Rating Applied to Stated Defects.

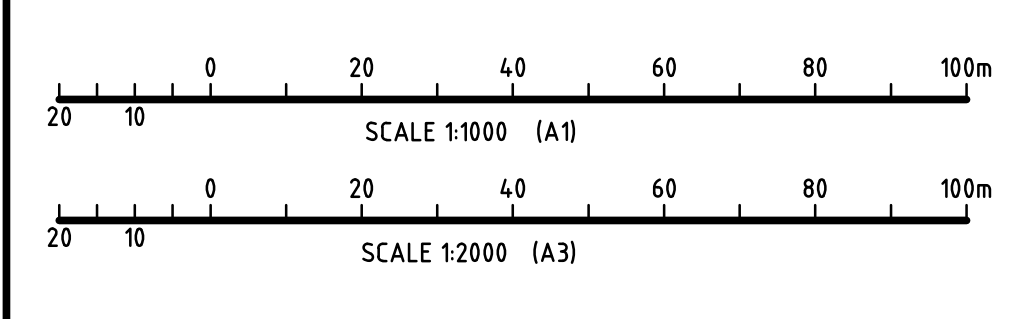
Hazard Rating.	Likelihood	Description.
Very Low	Rare – exceptional circumstances apply	All trees represent some degree of risk – this is the base line for a healthy tree with no known or observed defects – large and unrestricted root space is available for root development relative to overall size of the tree. The tree and larger canopy branching structure is mechanically acclimatised to normal annual cycle of weather – the tree is expected to withstand higher level storm intensity in the Riverina of around 80-100kph winds, provided saturated soil is not encountered during such wind intensity. Small twigs and branches of 20mm diameter or less will be expected to fail in high intensity storm events.

Low	Unlikely – could occur	There is some small indicator or defect that removes the rating from the very low.
Moderate	Possible – Might occur	There is a noted or obvious defect that will normally develop further before failure. If failure was to occur at this point in time it could not be considered as completely unexpected. Such defects might fail in a high intensity storm event.
High	Likely - Probable	There is an obvious defect that is expected to fail at some time. High intensity storm events typically induce some of these defects to fail. Branches or stems that have high gravitational loads on the defect are expected to fail at some point.
Critical (Extreme)	Almost Certain	There is a serious defect that is impending.

Explanatory Notes. (Version date 11/01/2017)

1. Use of this interpretation of Hazard Rating does not constitute a risk assessment or quantify risk. It provides a guide as to the likelihood of a tree or tree part (branch, stem or whole tree) failing – relative to a baseline sound tree (Very low).
2. To conduct a risk assessment or quantify risk, the frequency of use of the area needs to be considered in the analysis. A target must be present at the time of failure; damage or injury needs to be estimated.
 - a. Quantified Tree Risk Assessment (QTRA) can be applied. <http://www.qtra.co.uk/cms/>
3. Application of timeframes for failure are not possible to accurately predict and is therefore not stated. Even defects considered as Critical – impending – can sometimes remain intact for a number of years before failure actually occurs.
4. Equally, the time it takes for a defect to progress towards high or critical is not able to be accurately indicated for a range of reasons and not stated. It would be considered prudent to have 'Moderate' or higher ratings to be evaluated on an agreed time basis.





REVISIONS:			
REV	DESCRIPTION	DATE	DRAWN
D	ISSUED FOR INFORMATION	24.11.20	DK
E	ISSUED FOR INFORMATION	10.12.20	DK
F	ISSUED FOR INFORMATION	06.01.21	IM
G	ISSUED FOR INFORMATION	06.01.21	IM

DRAWING AUTHORISATION:					
DIVISION	CHECKED	APPROVED	DATE		
PLANNING					
DESIGN					
CONSTRUCTION					
ARCHITECTURE					

PROJECT:
**UNIVERSITY PARK
AGED CARE AND RESIDENTIAL
DEVELOPMENT**
20 HELY AVENUE, TURVEY PARK,
WAGGA WAGGA. CITY OF WAGGA WAGGA

DRAWING ISSUE:
DEVELOPMENT APPROVAL

SHEET TITLE:
MASTER PLAN

CROFT DEVELOPMENTS PTY LTD
Croft Developments Pty Ltd as Trustee
for Croft Developments Unit Trust
ABN 51 326 340 371
59 Wangara Road, Cheltenham VIC 3192
Tel: (03) 9581 0100 | Fax: (03) 9585 6383

SCALE: 1:1000@A1
DATE: 02.08.2019
1:2000@A3
DRAWN BY: DK

DRAWING NUMBER:
P-1901-01-G

REVISION:

Developed Wade Ryan Contracting 0408 300 989 waggatreeconsultancy.com.au waderyan1@bigpond.com		Annexure 2 - Tree Data Inventory - University Park Aged Care and Residential Development - 20 Heley Avenue Turvey Park Wagga Wagga - Dec 2020																						
Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
33	<i>Cercis siliquastrum</i> (Judas tree)	West of Charleville rd	-35.128201	147.349657	Exotic	Small	<8	0.45	Mature	3 - Fair	3- Fair	bifurcated stems - 7-8m height	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition	Exempt height	0-5	2.37	5.4		Remove
34	<i>Corymbia citriodora</i> Lemon Scented Gum	North of Music building	-35.128176	147.348969	Aus Native	Large	20+	0.94	Mature	1 - Excellent	2 - Good	Tree with good form and structure - a significant tree based on size and visual impact on area - no defects noted	3 - Medium	40 plus	Significant	1 - Excellent	Retain Priority	Significant Tree	Sound tree suited to site	50+	3.22	11.28	Tree will require specific tree protection measures and some canopy lifting on north canopy section	Retain - Impacts to Manage
35	<i>Cupressus arizonica</i> Arizona cypress	North of Music building	-35.128303	147.349111	Exotic	Medium	8 to 12	0.85	Over Mature	4 - Poor	4 - Poor	Tree in early stages of decline - multiple limb failures visual impact very poor	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	3.09	10.2		Remove
36	<i>Cupressus arizonica</i> Arizona cypress	West of music building	-35.128277	147.348613	Exotic	Medium	8 to 12	0.63	Mature	3 - Fair	3- Fair	12 failed laterals over time - potential for further limb failures - visual impact poor	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	2.73	7.56		Remove
37	<i>Cupressus arizonica</i> Arizona cypress	West of music building	-35.128364	147.348568	Exotic	Medium	8 to 12	0.6	Mature	3 - Fair	3- Fair	2 recent failed laterals - stems badly bifurcated at ground level - poor long term tree	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	2.67	7.2		Remove
38	<i>Platanus x acerifolia</i> London Plane	Music building grounds - east side - not on development site	-35.128932	147.349272	Exotic	Medium	12 to 20	0.71	Mature	3 - Fair	3- Fair	Tree lopped at 4m decades ago. Hollows and decay now in both leaders. Leaf coverage only fair - irrigation to tree has been turned off for several years now. Extensive trenching for services has occurred around immediate root zone. Tree located close to development needs to have impacts considered - proposed trenching close to stem	3 - Medium	15 plus	Not Significant	3- Fair	Retain Priority	Other		50+	2.87	8.52	Joining property tree - will require specific mitigation measures such as underbore	Retain - Impacts to Manage
39	<i>Corymbia citriodora</i> Lemon Scented Gum	School grounds east side	-35.129233	147.3491446	Aus Native	Small	8 to 12	0.29	Semi Mature	3 - Fair	3- Fair	Bifurcation in stem at 1.6m - stem high risk of failure - retention not advisable	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain Priority	Other		10 to 20	1.97	3.48	Joining property tree	Retain - Impacts unlikely
40	<i>Platanus x acerifolia</i> London Plane	School grounds east side	-35.12934	147.349097	Exotic	Medium	8 to 12	0.26	Over Mature	4 - Poor	3- Fair	Tree lopped at 3-4m decades ago - both leaders now with extensive decay and hollows - extensive services located around canopy and inside TPZ - retention not advisable. Moderate dead wood to 125mm	4 - Low	5 to 15	Not Significant	4 - Poor	Retain Priority	Other		10 to 20	1.88	3.12	Joining property tree	Retain - Impacts to Manage
41	<i>Cupressus arizonica</i> Arizona cypress	South entrance to school	-35.129892	147.3487665	Exotic	Medium	8 to 12	0.67	Over Mature	4 - Poor	3- Fair	Multiple failed laterals - 20% canopy dieback tree in decline - visual impact poor	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		10 to 20	2.80	8.04		Remove
42	<i>Eucalyptus spathulata</i> Swamp Mallet		-35.130133	147.349194	Aus Native	Medium	<8	0.5	Over Mature	4 - Poor	4 - Poor	Central stem system badly decayed - bracket fungi present b basal decay estimated 70% of circumference - sound holding wood likely 15% - high risk of whole tree failure	4 - Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	10 to 20	2.47	6		Remove
43	<i>Unidentified Eucalyptus sp.</i>		-35.130365	147.349189	Aus Native	Medium	8 to 12	0.55	Mature	3 - Fair	2 - Good	Sound tree - light dead wood - no local species- no hollows or other high level environmental values - would be left as an isolated tree if retained in development	3 - Medium	15 plus	Not Significant	3- Fair	Retain if possible	Sound tree suited to site		20+	2.57	6.6		Remove
44	<i>Corymbia citriodora</i> Lemon Scented Gum		-35.130745	147.3493132	Aus Native	Medium	12 to 20	0.85	Mature	3 - Fair	2 - Good	Young mature tree - Stem sound - has quite old stem failure at 1-2m , no decay present - some dead wood but less than 75mm diameter. Retention value potentially good	3 - Medium	40 plus	Not Significant	2 - Good	Retain if possible	Sound tree suited to site		20+	3.09	10.2		Remove
45	<i>Quercus palustris</i> Pin Oak		-35.130709	147.349501	Exotic	Medium	8 to 12	0.46	Mature	3 - Fair	3- Fair	Large amount of dead wood in canopy - Bifurcated stems at 3m - extruded bark - moderate risk of failure - tree heavily water stressed - poor leaf coverage. Irrigation not longer available to tree species requires some irrigation to thrive - Pruning to reduce structural defect now late in tree life and not really feasible.	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		20+	2.39	5.52		Remove
46	<i>Corymbia citriodora</i> Lemon Scented Gum		-35.130231	147.349592	Aus Native	Small	8 to 12	0.23	Over Mature	4 - Poor	4 - Poor	Bifurcated stems at 300mm above ground - white ant activity present - canopy leaf coverage poor - only 25% of expected - stem has noted infection of bacterial or viral galls -	4 - Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition		10 to 20	1.79	2.76		Remove
47	<i>Sapium sebiferum</i> Chinese Tallow		-35.130093	147.349678	Exotic	Small	<8	0.45	Mature	2 - Good	3- Fair	Smaller mature tree - about 8m in height - has some retention value from condition perspective - although only small tree	4 - Low	15 plus	Not Significant	2 - Good	Remove	Retention not practicable	Exempt height	5 to 10	2.37	5.4		Remove
48	<i>Fraxinus species</i> Ash (White or Green??)		-35.130087	147.349882	Exotic	Small	<8	0.35	Mature	2 - Good	3- Fair	Tree about 8m - has some potential for retention - but could easily be replaced.	4 - Low	15 plus	Not Significant	1 - Excellent	Remove	Species not suited to Environment	Exempt height	5 to 10	2.13	4.2		Remove
49	<i>Liquidambar styraciflua</i> Liquidambar		-35.130072	147.350027	Exotic	Small	8 to 12	0.31	Over Mature	4 - Poor	4 - Poor	Small tree - 8-10m. Central leader dieback - basal cavity in stem	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		5 to 10	2.02	3.72		Remove
50	<i>Corymbia citriodora</i> Lemon Scented Gum		-35.130129	147.3494357	Aus Native	Medium	8 to 12	0.3	Young	2 - Good	1 - Excellent	Seedling have germinated in garden bed against building - it will not be feasible to demolish building and retain stems.	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Retention not practicable	Other	0-5	2.00	3.6		Remove
51	<i>Eucalyptus cladocalyx</i> Sugar Gum	Open Space area about 60m north of Fernleigh road - opposite Hunter street.	-35.130922	147.3489339	Aus Native	Very Large	20+	2	Mature	3 - Fair	2 - Good	Large and aged tree. Massive stem - significant tree in location - visual impact, age and strong environmental values. Cavity in stem west side - likely low risk. Bifurcation in leaders at 4m - 800mm stems medium risk - some 20 failed branches across the canopy - 1 recent. 12 noted defects in canopy in laterals high risk of failure 100mm to 300mm diameter. Canopy diameter about 35m	2 - High	15 plus	Significant	3- Fair	Retain Priority	Significant Tree	Positive values	100+	4.43	15	Tree will require strict tree protection measures - as TPZ will only be 15m and canopy extends much further - Tree will require aerial inspection and extended limb and hazard reduction pruning for retention - there will still be some risk attached to limb failure - suggest that the tree is not used for occupancy recreation area. Create garden or other use of area that discourages pedestrians and human occupancy.	Retain - Impacts to Manage
52	<i>Eucalyptus leucoxylon</i> White Iron Bark		-35.131179	147.349166	Aus Native	Small	<8	350	Senescent	4 - Poor	4 - Poor	Small tree in decline - 2 stems. Stems have sunken necrotic zones and canopy dieback about 30% 7-8 meters in height	4 - Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	38.75	15		Remove
53	<i>Eucalyptus leucoxylon</i> White Iron Bark		-35.131334	147.349169	Aus Native	Small	8 to 12	0.5	Mature	2 - Good	2 - Good	12 meter tree in good condition - some retention values based on condition - small tree and easily replaced in short term.	4 - Low	15 plus	Not Significant	2 - Good	Retain if possible	Sound tree suited to site		5 to 10	2.47	6		Remove
54	<i>Cupressus arizonica</i> Arizona cypress		-35.130787	147.349831	Exotic	Small	8 to 12	0.4	Over Mature	4 - Poor	4 - Poor	Central leader died back to 150mm diameter - tree in decline	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	2.25	4.8		Remove
55	<i>Eucalyptus nicholii</i> Peppermint gum	south side entrance rd off Heley	-35.13021	147.350395	Aus Native	Small	8 to 12	0.6	Dead	5 - Very Poor	5 - Very Poor	Dead tree exempt under WWCC legislation	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt species	5 to 10	2.67	7.2		Remove
56	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130121	147.350419	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove
57	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130136	147.3504493	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
58	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130154	147.3505736	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove
59	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130155	147.3506662	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove
60	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130163	147.3507681	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove
61	<i>Cupressus arizonica</i> Arizona cypress	south side entrance rd off Heley	-35.130163	147.3508042	Exotic	Small	<8	0.35	Over Mature	4 - Poor	4 - Poor	Tree in decline - small tree 6-7 meters height - very poor visual impact	5 - Very Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition	Exempt height	5 to 10	2.13	4.2		Remove
62	<i>Eucalyptus albens</i> White Box	north side entrance rd off Heley	-35.130031	147.3506654	Endemic	Medium	12 to 20	0.74	Mature	3 - Fair	3- Fair	Young mature tree - considered amenity planting at site beside roadway. No hollows. Endemic species to site - condition only fair - leaf coverage and vigour only fair - was likely established with irrigation until recent 10 or so years.	3 - Medium	15 plus	Not Significant	3- Fair	Retain if possible	Sound tree suited to site		10 to 20	2.92	8.88		Remove
63	<i>Eucalyptus polyanthemus</i> Red Box	north side entrance rd off Heley	-35.13	147.350458	Aus Native	Small	8 to 12	0.74	Senescent	5 - Very Poor	5 - Very Poor	Tree in later stages of decline - canopy was lopped about 3 years ago as 70% of canopy had died - tree has 25mm epicormic shoots on some stems - tree in later stages of decline. Tree now only 9 m in height.	4 - Low	0 to 5	Not Significant	5 - Very Poor	Remove	Poor Condition		10 to 20	2.92	8.88		Remove
64	<i>Brachychiton populneus</i> (Kurrajong)	north side entrance rd off Heley	-35.129829	147.3507949	Aus Native	Small	8 to 12	0.53	Mature	2 - Good	2 - Good	Small tree about 9m height. Condition good - although somewhat suppressed by larger trees nearby - some retention values based on condition - but can easily be replaced	3 - Medium	40 plus	Not Significant	2 - Good	Retain if possible	Sound tree suited to site		10 to 20	2.53	6.36		Remove
65	<i>Cupressus sempervirens 'stricta'</i>	north side entrance rd off Heley	-35.129763	147.3506911	Exotic	Medium	8 to 12	0.55	Mature	2 - Good	3- Fair	some branches commencing to 'fall out' - visual impact declining - could easily be replaced.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Retention not practicable		10 to 20	2.57	6.6		Remove
66	<i>Fraxinus oxycarpa</i> Desert Ash	north side entrance rd off Heley	-35.129706	147.350557	Exotic	Medium	8 to 12	0.35	Over Mature	4 - Poor	4 - Poor	tree in decline - height about 12m Exempt species	4 - Low	0 to 5	Not Significant	5 - Very Poor	Remove	Exempt species	Exempt species	5 to 10	2.13	4.2		Remove
67	<i>Eucalyptus cladocalyx</i> Sugar Gum	north side entrance rd off Heley	-35.129877	147.3503287	Aus Native	Medium	12 to 20	0.76	Over Mature	4 - Poor	3- Fair	Some basal decay north side - moderate risk - old bracket fungi present - central leader has failed at 8-9m bird chewing of union - several high risk defects in canopy - not suitable for close amenity situation.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		50+	2.95	9.12		Remove
68	<i>Eucalyptus cladocalyx</i> Sugar Gum	north side entrance rd off Heley	-35.129805	147.3503581	Aus Native	Medium	12 to 20	0.69	Over Mature	4 - Poor	3- Fair	400mm stem failure at 7m - remaining canopy contains numerous defects high risk - recent limb failure 250mm. Not suitable for close amenity situation	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		50+	2.83	8.28		Remove
69	<i>Eucalyptus cladocalyx</i> Sugar Gum	north side entrance rd off Heley	-35.129722	147.3504077	Aus Native	Medium	12 to 20	0.76	Over Mature	4 - Poor	3- Fair	Stem hollow - 5 significant failures on stem greater than 300mm. Canopy contains numerous other high risk defects. Tree not suitable for retention	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		50+	2.95	9.12		Remove
70	<i>Brachychiton populneus</i> (Kurrajong)		-35.129407	147.3505129	Aus Native	Small	<8	0.38	Mature	2 - Good	3- Fair	Tree only 7m - height exempt by WWCC Tree condition has some retention values - however tree is highly isolated and would restrict development	3 - Medium	40 plus	Not Significant	2 - Good	Retain if possible	Sound tree suited to site	Exempt height	10 to 20	2.20	4.56		Remove
71	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128275	147.350114	Exotic	Medium	8 to 12	0.85	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.09	10.2		Remove
72	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.12844	147.3501214	Exotic	Medium	8 to 12	0.9	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.17	10.8		Remove
73	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128496	147.3501153	Exotic	Medium	8 to 12	0.8	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.01	9.6		Remove
74	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128548	147.3501121	Exotic	Medium	8 to 12	0.55	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.57	6.6		Remove
75	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128601	147.3500738	Exotic	Medium	8 to 12	0.9	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.17	10.8		Remove
76	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128657	147.3500611	Exotic	Medium	8 to 12	0.8	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.01	9.6		Remove
77	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128733	147.3500633	Exotic	Medium	8 to 12	0.75	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.93	9		Remove
78	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128775	147.3500623	Exotic	Medium	8 to 12	0.75	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.93	9		Remove
79	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128815	147.3500469	Exotic	Medium	8 to 12	0.8	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	3.01	9.6		Remove
80	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.12891	147.350027	Exotic	Medium	8 to 12	0.5	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.47	6		Remove
81	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.12894	147.3500321	Exotic	Medium	8 to 12	0.6	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.67	7.2		Remove
82	<i>Cupressus arizonica</i> Arizona cypress	Entrance rd off College ave east side	-35.128954	147.3500138	Exotic	Medium	8 to 12	0.4	Over Mature	4 - Poor	4 - Poor	Over mature tree - early stages of decline - limb failures and poor visual impacts.	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.25	4.8		Remove
83	<i>Corymbia citriodora</i> Lemon Scented Gum	Entrance rd off College ave east side	-35.128901	147.3499438	Aus Native	Medium	12 to 20	0.53	Mature	3 - Fair	3- Fair	Semi mature or smaller mature tree - heavy root zone impacts from parking - 14 branch failures over time to 180mm. Light dead wood to 150mm - recent large dead limb failure. Development has identified for retention Tree is only in fair condition - specific measures required to rejuvenate tree.	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Sound tree suited to site		20+	2.53	6.36	Tree will require specific tree protection measure asap - including establishment of TPZ fence, mulching of root zone and application of at least one irrigation event of 4000 litres of water asap. Some canopy pruning to rectify branch failures would be beneficial - alleviation of soil compaction	Retain - Impacts to Manage
84	<i>Corymbia Maculata</i> Spotted Gum	Entrance rd off College ave east side	-35.129115	147.349923	Aus Native	Large	12 to 20	0.9	Mature	3 - Fair	3- Fair	Mature tree - development has identified tree for retention. Tree has sustained a very large necrotic zone on the stem system fro ground to 7m - cambium dieback and loss of bark - this was 4 years ago and tree has staged a notable recovery of callous tissue almost covering the old wound. This does not present as a structural defect. Tree has sustained 1 branch failure of 400mm - decay is present at this point. Dead wood in canopy - 4 defect noted to 150mm.	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Sound tree suited to site		50+	3.17	10.8	Tree will require specific tree protection measure asap - including establishment of TPZ fence, mulching of root zone and application of at least one irrigation event of 6000 litres of water asap. Some canopy pruning to rectify branch failures would be beneficial	Retain - Impacts to Manage
85	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131435	147.348623	Aus Native	Medium	12 to 20	0.5	Mature	3 - Fair	3- Fair	Extensive earth works and trenching inside structural root zone - tree at risk of whole tree failure	3 - Medium	0	Not Significant	3- Fair	Remove	Condition & Safety		20+	2.47	6	Approved for removal under DA18/0175	Remove
86	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131438	147.348659	Aus Native	Medium	12 to 20	0.41	Mature	3 - Fair	3- Fair		3 - Medium	0	Not Significant	3- Fair	Retain if possible	Sound tree suited to site		20+	2.28	4.92	Approved for removal under DA18/0175	Remove
87	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131447	147.3487009	Aus Native	Medium	12 to 20	0.45	Mature	3 - Fair	3- Fair	Extensive earth works and trenching inside structural root zone - tree at risk of whole tree failure	3 - Medium	0	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.37	5.4	Approved for removal under DA18/0175	Remove

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88	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131445	147.3487429	Aus Native	Medium	12 to 20	0.29	Mature	3 - Fair	3- Fair	Extensive earth works and trenching inside structural root zone both sides of tree - tree at risk of whole tree failure	3 - Medium	0	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	1.97	3.48	Approved for removal under DA18/0175	Remove
89	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131439	147.3487914	Aus Native	Medium	12 to 20	0.4	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment only fair.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.25	4.8	Will require canopy reduction and dead wooding for retention	Not determined
90	<i>Eucalyptus albens</i> White Box	Fernleigh rd boundary	-35.131485	147.3488043	Endemic	Small	8 to 12	0.9	Dead	5 - Very Poor	3- Fair	Has been reduced to 8-9 meter stump - stump has numerous hollows but is commencing to break up - numerous failure points	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		0-5	3.17	10.8	TPZ of 3m would be sufficient due to reduced height and dead tree.	Not determined
91	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131454	147.3488657	Aus Native	Medium	12 to 20	0.54	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.55	6.48	Will require canopy reduction and dead wooding for retention	Not determined
92	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131457	147.3489087	Aus Native	Medium	12 to 20	0.59	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment only fair.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.65	7.08	Will require canopy reduction and dead wooding for retention	Not determined
93	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131473	147.3489346	Aus Native	Medium	12 to 20	0.49	Mature	4 - Poor	3- Fair	lopped at 4m and 9m - canopy very unbalanced - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.45	5.88	Will require canopy reduction and dead wooding for retention	Not determined
94	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131476	147.3489705	Aus Native	Medium	12 to 20	0.29	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	1.97	3.48	Will require canopy reduction and dead wooding for retention	Not determined
95	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131475	147.3489999	Aus Native	Medium	12 to 20	0.39	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.23	4.68	Will require canopy reduction and dead wooding for retention	Not determined
96	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131478	147.3490399	Aus Native	Small	<8	0.15	Mature	4 - Poor	3- Fair	Sapling - supressed tree - not lopped	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Exempt height	Exempt height	5 to 10	1.50	1.8		Not determined
97	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131486	147.3490913	Aus Native	Medium	12 to 20	0.43	Mature	4 - Poor	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		10 to 20	2.32	5.16	Will require canopy reduction and dead wooding for retention	Not determined
98	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131486	147.3491352	Aus Native	Medium	12 to 20	0.67	Mature	4 - Poor	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.80	8.04	Will require canopy reduction and dead wooding for retention	Not determined
99	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131514	147.3491856	Aus Native	Medium	12 to 20	0.38	Mature	5 - Very Poor	3- Fair	Stem with significant decay at 1-2m - high risk of failure	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.20	4.56	Driveway off Fernleigh rd Tree would require removal on condition and safety	Remove
100	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131512	147.3492115	Aus Native	Medium	12 to 20	0.43	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment only fair.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.32	5.16	Driveway off Fernleigh rd - retention not possible	Remove
101	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131521	147.3492899	Aus Native	Medium	12 to 20	0.47	Mature	5 - Very Poor	3- Fair	Stem with very significant decay at base - high risk of whole tree failure	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.41	5.64	Driveway off Fernleigh rd Tree would require removal on condition and safety	Remove
102	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131545	147.3493273	Aus Native	Small	8 to 12	0.46	Dead	5 - Very Poor	5 - Very Poor	Tree dead for some time - appears stable in ground	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Retain if possible	Other		0-5	2.39	5.52	Moderate Environmental values	Not determined
103	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131545	147.3493673	Aus Native	Small	8 to 12	0.28	Mature	4 - Poor	5 - Very Poor	Small supressed tree	4 - Low	5 to 15	Not Significant	5 - Very Poor	Retain if possible	Positive values		10 to 20	1.94	3.36	Will require canopy reduction and dead wooding for retention	Not determined
104	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131543	147.3494052	Aus Native	Medium	12 to 20	0.66	Mature	3 - Fair	3- Fair	Tree lopped at 6m epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.78	7.92	Will require canopy reduction and dead wooding for retention	Not determined
105	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131552	147.3494542	Aus Native	Medium	12 to 20	0.62	Mature	3 - Fair	3- Fair	Minor lopping only - epicormic attachment fair	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.71	7.44	Will require canopy reduction and dead wooding for retention	Not determined
106	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13155	147.3495003	Aus Native	Medium	12 to 20	0.62	Over Mature	4 - Poor	3- Fair	Lopped at 8m for power line - recent large lateral failure 200mm decay present	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.71	7.44	Will require canopy reduction and dead wooding for retention	Not determined
107	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131552	147.3495513	Aus Native	Small	<8	0.15	Over Mature	4 - Poor	4 - Poor	Supressed sapling - some canopy dieback	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Positive values	Exempt height	5 to 10	1.50	1.8		Not determined
108	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131568	147.349584	Aus Native	Medium	12 to 20	0.49	Over Mature	4 - Poor	3- Fair	Significant defect in stem at 2m - high risk failure point	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.45	5.88	Will require canopy reduction and dead wooding for retention	Not determined
109	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131583	147.3496304	Aus Native	Medium	12 to 20	0.63	Mature	4 - Poor	3- Fair	Lopped for power line - several 180mm diameter limb failures - one recent	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.73	7.56	Will require canopy reduction and dead wooding for retention	Not determined
110	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131586	147.3496762	Aus Native	Medium	12 to 20	0.52	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.51	6.24	Will require canopy reduction and dead wooding for retention	Not determined
111	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.1316	147.3497127	Aus Native	Medium	12 to 20	0.54	Mature	4 - Poor	3- Fair	Lopped for power line - epicormic attachment poor recent limb failure 240mm - decay present	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.55	6.48	Will require canopy reduction and dead wooding for retention	Not determined
112	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131622	147.3497381	Aus Native	Medium	12 to 20	0.48	Mature	4 - Poor	3- Fair	Lopped for power line - recent main stem failure at 4m - 260mm. Hanging in canopy	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.43	5.76	Will require canopy reduction and dead wooding for retention	Not determined
113	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131596	147.3497853	Aus Native	Medium	12 to 20	0.53	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.53	6.36	Will require canopy reduction and dead wooding for retention	Not determined
114	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131629	147.3498113	Aus Native	Small	<8	0.23	Mature	4 - Poor	4 - Poor		4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		5 to 10	1.79	2.76		Not determined
115	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131605	147.3498647	Aus Native	Medium	12 to 20	0.51	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.49	6.12	Will require canopy reduction and dead wooding for retention	Not determined
116	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131623	147.3498995	Aus Native	Medium	12 to 20	0.6	Mature	4 - Poor	3- Fair	Lopped for power line - epicormic attachment poor - decay into sub leader structure	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove Priority	Condition & Safety		20+	2.67	7.2	Will require canopy reduction and dead wooding for retention	Not determined
117	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131649	147.3499229	Aus Native	Medium	12 to 20	0.39	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment fair	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.23	4.68	Will require canopy reduction and dead wooding for retention	Not determined
118	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13163	147.349957	Aus Native	Medium	12 to 20	0.39	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment fair	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.23	4.68	Will require canopy reduction and dead wooding for retention	Not determined
119	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131641	147.3499915	Aus Native	Medium	12 to 20	0.58	Mature	4 - Poor	3- Fair	Lopped for power line - basal decay significant - whole tree failure likely	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.63	6.96	Will require canopy reduction and dead wooding for retention	Not determined
120	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131635	147.350026	Aus Native	Medium	12 to 20	0.44	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment fair	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
121	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131661	147.3500481	Aus Native	Medium	12 to 20	0.36	Mature	3 - Fair	3- Fair	Lopped for power line - epicormic attachment fair	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.15	4.32	Will require canopy reduction and dead wooding for retention	Not determined
122	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131658	147.350092	Aus Native	Medium	12 to 20	0.38	Mature	4 - Poor	3- Fair	Lopped at 6m for power line - epicormic attachment very poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove Priority	Condition & Safety		10 to 20	2.20	4.56	Will require canopy reduction and dead wooding for retention	Not determined

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
123	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131662	147.350148	Aus Native	Medium	12 to 20	0.5	Mature	3 - Fair	3- Fair	Lopped at 9m for power line - epicormic attachment small	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
124	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131681	147.3501712	Aus Native	Medium	12 to 20	0.56	Mature	3 - Fair	3- Fair	Lopped at 9m for power line - epicormic attachment small	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.59	6.72	Will require canopy reduction and dead wooding for retention	Not determined
125	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131697	147.3502144	Aus Native	Small	<8	0.15	Mature	4 - Poor	4 - Poor	small supressed tree - light canopy dieback	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Exempt height		5 to 10	1.50	1.8		Not determined
126	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131685	147.3502691	Aus Native	Medium	12 to 20	0.58	Over Mature	4 - Poor	4 - Poor	Stem badly decayed at 1.6m - decay extends up into bifurcated leader structure at 2.2m - bracket fungi - very high risk of failure	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.63	6.96	Will require canopy reduction and dead wooding for retention	Not determined
127	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131696	147.3503251	Aus Native	Medium	12 to 20	0.48	Mature	4 - Poor	3- Fair	Lopped at 8m for power line - decay in stem at 1.6m - moderate risk	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.43	5.76	Will require canopy reduction and dead wooding for retention	Not determined
128	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.131693	147.3503665	Aus Native	Medium	12 to 20	0.52	Mature	4 - Poor	3- Fair	Lopped at various heights over years - stem with significant decay at 1.7m - epicormic attachment very poor	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove Priority	Condition & Safety		20+	2.51	6.24		Not determined
129	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131599	147.3504152	Aus Native	Small	<8	0.17	Over Mature	4 - Poor	3- Fair	Tree adjacent to light. Stem has failed at 3m - remaining stem high risk	4 - Low	0	Not Significant	5 - Very Poor	Remove	Condition & Safety	Exempt height	5 to 10	1.57	2.04		Remove
130	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131563	147.3503528	Aus Native	Medium	12 to 20	0.2	Mature	3 - Fair	3- Fair	Minor dead wood	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		5 to 10	1.68	2.4		Remove
131	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131528	147.3502838	Aus Native	Medium	12 to 20	0.34	Mature	3 - Fair	3- Fair	Minor dead wood	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.10	4.08		Remove
132	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131519	147.3503572	Aus Native	Medium	12 to 20	0.52	Mature	5 - Very Poor	4 - Poor	Stem wit significant decay 2.1 to 3m. Open hollows and bracket fungi present - high risk of stem failure	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.51	6.24		Remove
133	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131452	147.350315	Aus Native	Medium	12 to 20	0.5	Mature	4 - Poor	3- Fair	stem sound - canopy sustained 10 failures from 75 to 160mm - further defects in canopy 180mm	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.47	6		Remove
134	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131461	147.3503831	Aus Native	Medium	12 to 20	0.5	Mature	3 - Fair	3- Fair	minor dead wood only	3 - Medium	5 to 15	Not Significant	3- Fair	Retain if possible	Positive values		20+	2.47	6		Remove
135	<i>Eucalyptus cladocalyx</i> Sugar Gum	Cluster - corner of Fernleigh and Heley	-35.131483	147.3504415	Aus Native	Medium	12 to 20	0.26	Mature	3 - Fair	3- Fair	minor dead wood only	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		5 to 10	1.88	3.12		Remove
136	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley - south tree	-35.13168	147.3505479	Aus Native	Medium	12 to 20	0.42	Mature	3 - Fair	3- Fair		3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.30	5.04	Will require canopy reduction and dead wooding for retention	Not determined
137	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.13164	147.35055	Aus Native	Medium	12 to 20	0.37	Mature	3 - Fair	3- Fair	stem with moderate decay at 1.6m - moderate risk of failure	3 - Medium	5 to 15	Not Significant	3- Fair	Retain if possible	Positive values		5 to 10	2.18	4.44	Will require canopy reduction and dead wooding for retention	Not determined
138	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131608	147.3505682	Aus Native	Medium	12 to 20	0.4	Over Mature	5 - Very Poor	4 - Poor	stems bifurcated at ground - north stem had failed and hanging in tree 139. Remaining stem also high risk	3 - Medium	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		10 to 20	2.25	4.8		Not determined
139	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131574	147.3505629	Aus Native	Medium	12 to 20	0.48	Over Mature	4 - Poor	3- Fair	Stem badly bifurcated with significant decay at 3m - bracket fungi present - high risk of failure	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		5 to 10	2.43	5.76	Will require canopy reduction and dead wooding for retention	Not determined
140	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131534	147.3505751	Aus Native	Medium	12 to 20	0.42	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.30	5.04	Will require canopy reduction and dead wooding for retention	Not determined
141	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131491	147.3505755	Aus Native	Medium	12 to 20	0.33	Over Mature	4 - Poor	5 - Very Poor	Stem with minor lean - low risk Tree in mid stages of decline	4 - Low	15 plus	Not Significant	3- Fair	Remove	Poor Condition		5 to 10	2.08	3.96	Will require canopy reduction and dead wooding for retention	Not determined
142	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131464	147.3505871	Aus Native	Large	12 to 20	0.45	Mature	4 - Poor	3- Fair	Tree with 2 stems - 50% of stem is decayed at ground - high risk of whole tree failure	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		5 to 10	2.37	5.4	Will require canopy reduction and dead wooding for retention	Not determined
143	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131427	147.3505925	Aus Native	Medium	12 to 20	0.33	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.08	3.96	Will require canopy reduction and dead wooding for retention	Not determined
144	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131371	147.3506101	Aus Native	Medium	12 to 20	0.45	Mature	3 - Fair	4 - Poor		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.37	5.4	Will require canopy reduction and dead wooding for retention	Not determined
145	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131334	147.3506262	Aus Native	Medium	12 to 20	0.49	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		10 to 20	2.45	5.88	Will require canopy reduction and dead wooding for retention	Not determined
146	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131294	147.3506381	Aus Native	Medium	12 to 20	0.68	Mature	3 - Fair	3- Fair	Small defect in stem at 1.3m - low risk - defect in canopy over footpath	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain	Positive values		20+	2.81	8.16	Will require canopy reduction and dead wooding for retention	Not determined
147	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131265	147.3506048	Aus Native	Medium	12 to 20	0.44	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
148	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.13122	147.3506217	Aus Native	Medium	12 to 20	0.36	Mature	3 - Fair	3- Fair	Bifurcation defect in stem at 3m. Remaining stem high risk of failure - central leader has failed at 5m	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		5 to 10	2.15	4.32	Will require canopy reduction and dead wooding for retention	Not determined
149	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131175	147.3506325	Aus Native	Medium	12 to 20	0.5	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		5 to 10	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
150	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131128	147.3506464	Aus Native	Medium	12 to 20	0.43	Mature	3 - Fair	3- Fair	defects in canopy moderate to high risk	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		5 to 10	2.32	5.16	Will require canopy reduction and dead wooding for retention	Not determined
151	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131074	147.3506636	Aus Native	Medium	12 to 20	0.58	Mature	2 - Good	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.63	6.96	Will require canopy reduction and dead wooding for retention	Not determined
152	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131035	147.3506535	Aus Native	Medium	12 to 20	0.44	Over Mature	4 - Poor	3- Fair	Stem sustained large failure at 3-4m - stem with very extensive decay - epicormic growth on decayed stem over footpath - high risk.	3 - Medium	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.34	5.28		Not determined
153	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.131006	147.3506746	Aus Native	Small	8 to 12	0.37	Mature	4 - Poor	3- Fair	Large failure in stem at 3-4m. Stem has significant basal decay - high risk of further failure	3 - Medium	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.18	4.44		Not determined
154	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130964	147.3506851	Aus Native	Medium	12 to 20	0.44	Over Mature	4 - Poor	3- Fair	Lower stem sound. Canopy with 3 limb failures - dead wood to 150mm - dieback in epicormic shoots - tree with poor longer term expectancy.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		5 to 10	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
155	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130943	147.3507011	Aus Native	Large	12 to 20	0.5	Mature	4 - Poor	3- Fair	Lower stem sound - canopy has sustained 5 limb failures to 180mm - moderate risk of further limb failures	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
156	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130914	147.3506789	Aus Native	Small	8 to 12	0.28	Over Mature	4 - Poor	4 - Poor	Stem failure at 2.5m some time ago - remaining stem has failed recently and is hanging in neighbouring tree - tree can not be pruned	4 - Low	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	1.94	3.36		Not determined
157	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130892	147.350701	Aus Native	Medium	12 to 20	0.28	Mature	3 - Fair	3- Fair		3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		5 to 10	1.94	3.36	Will require canopy reduction and dead wooding for retention	Not determined
158	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130855	147.3506989	Aus Native	Medium	12 to 20	0.51	Mature	3 - Fair	3- Fair		3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		20+	2.49	6.12	Will require canopy reduction and dead wooding for retention	Not determined

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
159	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130806	147.350715	Aus Native	Large	12 to 20	0.76	Over Mature	4 - Poor	4 - Poor	failed limb on stem with cavity at 4m - moderate risk of further failure - bird chewing in branch unions present - moderate dead wood.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.95	9.12	Will require canopy reduction and dead wooding for retention	Not determined
160	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130763	147.3507252	Aus Native	Large	12 to 20	0.58	Over Mature	4 - Poor	4 - Poor	Decay in stem and west lateral at 1.7m - further decay at 2 to 2.4m - bifurcation defect in stem at 6m - high risk defects.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.63	6.96	Will require canopy reduction and dead wooding for retention	Not determined
161	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.13072	147.3507372	Aus Native	Large	12 to 20	0.48	Mature	3 - Fair	3- Fair	stem sound - 4 failed limbs to 180mm	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.43	5.76	Will require canopy reduction and dead wooding for retention	Not determined
162	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130666	147.3507468	Aus Native	Medium	12 to 20	0.46	Mature	3 - Fair	3- Fair	Stem sound - 2 branch failures to 150mm - other defects in canopy moderate risk	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.39	5.52	Will require canopy reduction and dead wooding for retention	Not determined
163	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130649	147.3507817	Aus Native	Medium	12 to 20	0.5	Mature	3 - Fair	3- Fair	Several limb failures noted - extended lateral to west - moderate risk of failure	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
164	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.13061	147.3507719	Aus Native	Medium	12 to 20	0.62	Mature	3 - Fair	3- Fair	Stem sound - 1 limb failure 180mm - further moderate to high-risk defects noted in canopy	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.71	7.44	Will require canopy reduction and dead wooding for retention	Not determined
165	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130581	147.3507884	Aus Native	Medium	12 to 20	0.63	Over Mature	4 - Poor	3- Fair	Stem with significant decay at 1.6m - stem union immediately above decay - lateral over roadway with decay - bracket fungi present - high risk of failure	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.73	7.56	Will require canopy reduction and dead wooding for retention	Not determined
166	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130556	147.3508103	Aus Native	Large	12 to 20	0.67	Mature	3 - Fair	3- Fair	one limb failure 180mm	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		20+	2.80	8.04	Will require canopy reduction and dead wooding for retention	Not determined
167	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130526	147.3507902	Aus Native	Large	12 to 20	0.52	Over Mature	4 - Poor	4 - Poor	Stem with very significant basal decay - 50% of stem circumference - bracket fungi present.	3 - Medium	0	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.51	6.24		Not determined
168	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130494	147.3508007	Aus Native	Large	12 to 20	0.45	Mature	4 - Poor	3- Fair	Stem failure at 1.5m - cavity present with some reaction wood around failure - moderate to high risk of stem failure again.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.37	5.4	Will require canopy reduction and dead wooding for retention	Not determined
169	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130465	147.3508142	Aus Native	Large	12 to 20	0.5	Over Mature	4 - Poor	4 - Poor	Stem failure at 1.5m - significant decay in leader over footpath - sounding indicated at least 60% decay in circumference - likely 20% sound holding wood - high risk.	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
170	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130427	147.3508172	Aus Native	Medium	12 to 20	0.52	Over Mature	4 - Poor	3- Fair	Significant basal decay sound indicated less than 20% sound holding wood - tall upright tree - no lateral branching to prune back to - would have to be lopped.	3 - Medium	0	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.51	6.24		Not determined
171	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130381	147.3508251	Aus Native	Large	12 to 20	0.64	Mature	3 - Fair	3- Fair	Stem sound - dead wood to 150mm - 4 failed limbs to 150mm	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.74	7.68	Will require canopy reduction and dead wooding for retention	Not determined
172	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.13034	147.3508303	Aus Native	Large	12 to 20	0.57	Mature	3 - Fair	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.61	6.84	Will require canopy reduction and dead wooding for retention	Not determined
173	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130305	147.3508315	Aus Native	Medium	12 to 20	0.56	Mature	3 - Fair	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.59	6.72	Will require canopy reduction and dead wooding for retention	Not determined
174	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130275	147.3508389	Aus Native	Large	12 to 20	0.57	Mature	3 - Fair	3- Fair	Stem bifurcation defect at 1.5m - moderate risk. 6 failed limbs to 100mm. Bifurcated sub leader defect at 6m	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.61	6.84	Will require canopy reduction and dead wooding for retention	Not determined
175	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130242	147.3508409	Aus Native	Medium	12 to 20	0.41	Mature	3 - Fair	3- Fair	stem appears sound - slight lean to north - low risk. Bifurcation defect in leader at 2m over footpath moderate risk	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.28	4.92	Will require canopy reduction and dead wooding for retention	Not determined
176	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130212	147.3508679	Aus Native	Medium	12 to 20	0.46	Over Mature	4 - Poor	4 - Poor	Stem has failed leader and cavity at 2m - high risk of further failure - remaining 12m of canopy attached of decayed leader at failure point - high risk. Can not be pruned.	3 - Medium	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.39	5.52		Not determined
177	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130193	147.3508791	Aus Native	Large	12 to 20	0.54	Over Mature	4 - Poor	4 - Poor	Stem failure at 4-5m - remaining structure 350mm high risk across entrance road.	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove Priority	Condition & Safety		20+	2.55	6.48	Will require canopy reduction and dead wooding for retention	Not determined
178	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Fernleigh to Entrance rd	-35.130161	147.3508698	Aus Native	Medium	12 to 20	0.45	Mature	3 - Fair	3- Fair	Tree had bifurcated leaders - north leader has been removed - tree now lower risk.	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		20+	2.37	5.4	Will require canopy reduction and dead wooding for retention	Not determined
179	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.130067	147.3508921	Aus Native	Small	8 to 12	0.35	Mature	4 - Poor	3- Fair	tree with noted lean over entrance road - moderate risk	4 - Low	5 to 15	Not Significant	4 - Poor	Retain	Positive values		5 to 10	2.13	4.2	Will require canopy reduction and dead wooding for retention	Not determined
180	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.13001	147.3509118	Aus Native	Medium	12 to 20	0.4	Mature	3 - Fair	3- Fair		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.25	4.8		Not determined
181	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129969	147.3509231	Aus Native	Large	12 to 20	0.51	Over Mature	5 - Very Poor	4 - Poor	Stem had defect at 5m - recent stem failure at this point very significant decay present - remaining stem extreme risk of further failure. Hollow formed	3 - Medium	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.49	6.12		Not determined
182	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129928	147.3509253	Aus Native	Large	20+	0.56	Mature	3 - Fair	2 - Good	one limb failure 150mm	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.59	6.72	Will require canopy reduction and dead wooding for retention	Not determined
183	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129883	147.3509256	Aus Native	Large	20+	0.61	Mature	3 - Fair	3- Fair	3 limb failure 150mm	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain	Positive values		20+	2.69	7.32	Will require canopy reduction and dead wooding for retention	Not determined
184	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129836	147.3509471	Aus Native	Large	20+	0.66	Mature	3 - Fair	2 - Good	1 limb failure 200mm	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain	Positive values		20+	2.78	7.92	Will require canopy reduction and dead wooding for retention	Not determined
185	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129789	147.350951	Aus Native	Medium	12 to 20	0.72	Mature	3 - Fair	2 - Good		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.88	8.64	Will require canopy reduction and dead wooding for retention	Not determined
186	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129756	147.3509447	Aus Native	Medium	12 to 20	0.43	Dead	5 - Very Poor	5 - Very Poor	leans to north and footpath - 20 degree - decay in base of stem	3 - Medium	0	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.32	5.16	Reduce limbs to 100mm diameter.	Not determined
187	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129721	147.3509668	Aus Native	Large	12 to 20	0.8	Mature	3 - Fair	3- Fair	dead wood and rubbing branches	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		50+	3.01	9.6	Will require canopy reduction and dead wooding for retention	Not determined
188	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129678	147.3509428	Aus Native	Large	12 to 20	0.59	Over Mature	4 - Poor	3- Fair	Lopped at 5m - epicormic growth about 17m over footpath - dead wood present - 2 150mm limb failures	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.65	7.08	Will require canopy reduction and dead wooding for retention	Not determined
189	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129642	147.3509688	Aus Native	Small	<8	0.31	Mature	3 - Fair	4 - Poor	small tree - 1 failed limb 150mm	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Exempt height		5 to 10	2.02	3.72	Will require canopy reduction and dead wooding for retention	Not determined
190	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129592	147.3509861	Aus Native	Medium	12 to 20	0.5	Mature	3 - Fair	3- Fair	stem sound - dieback in canopy - low risk defect at 5m	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
191	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129528	147.3510087	Aus Native	Large	12 to 20	0.4	Mature	3 - Fair	4 - Poor		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		10 to 20	2.25	4.8	Will require canopy reduction and dead wooding for retention	Not determined
192	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.12949	147.3510165	Aus Native	Large	12 to 20	0.44	Over Mature	4 - Poor	4 - Poor	Stem failure at 3m - 200mm and again at 7m - central leader high risk of further failure- tree can not be pruned to retain	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		10 to 20	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
193	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129442	147.3510175	Aus Native	Large	12 to 20	0.7	Mature	4 - Poor	4 - Poor	Tree now with 15 degree lean to north - heaving of soil on south side - likely high risk of whole tree failure.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.85	8.4	Will require canopy reduction and dead wooding for retention	Not determined
194	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129406	147.3510333	Aus Native	Small	<8	0.28	Mature	4 - Poor	4 - Poor	small supressed tree - only 6m in height.	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Exempt height	Exempt height	5 to 10	1.94	3.36		Not determined
195	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129328	147.351048	Aus Native	Medium	12 to 20	0.51	Mature	3 - Fair	2 - Good		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.49	6.12	Will require canopy reduction and dead wooding for retention	Not determined
196	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129293	147.3510298	Aus Native	Medium	12 to 20	0.53	Mature	3 - Fair	3- Fair	small necrotic zone at stem base - low risk - 6 dead branches	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain	Positive values		20+	2.53	6.36	Will require canopy reduction and dead wooding for retention	Not determined
197	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129262	147.3510468	Aus Native	Medium	12 to 20	0.41	Mature	3 - Fair	3- Fair	4 small branch failures	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		10 to 20	2.28	4.92	Will require canopy reduction and dead wooding for retention	Not determined
198	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.12922	147.3510514	Aus Native	Large	12 to 20	0.68	Mature	3 - Fair	3- Fair	cavity in east leader at 6m - moderate risk	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.81	8.16	Will require canopy reduction and dead wooding for retention	Not determined
199	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129186	147.351029	Aus Native	Medium	12 to 20	0.65	Mature	2 - Good	2 - Good		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.76	7.8	Will require canopy reduction and dead wooding for retention	Not determined
200	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129163	147.3510709	Aus Native	Small	<8	0.2	Senescent	4 - Poor	4 - Poor	small supressed tree - only 5m in height	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Exempt height	Exempt height	5 to 10	1.68	2.4		Not determined
201	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129128	147.3510464	Aus Native	Small	8 to 12	0.32	Over Mature	4 - Poor	4 - Poor	tree 9m height. Die back in canopy - 4 dead branches	4 - Low	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		10 to 20	2.05	3.84		Not determined
202	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129099	147.3510865	Aus Native	Medium	12 to 20	0.62	Mature	3 - Fair	3- Fair	defect in lateral to west at 2m - moderate risk	3 - Medium	5 to 15	Not Significant	3- Fair	Retain	Positive values		20+	2.71	7.44	Will require canopy reduction and dead wooding for retention	Not determined
203	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.129024	147.3510941	Aus Native	Large	12 to 20	0.52	Mature	3 - Fair	3- Fair	light dead wood	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.51	6.24	Will require canopy reduction and dead wooding for retention	Not determined
204	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128946	147.3511068	Aus Native	Medium	12 to 20	0.43	Over Mature	4 - Poor	4 - Poor	Stem failures at 1.8m and 2.2m stem with significant cavity - 4 failures in canopy - 2 further defects noted. Cambium dieback in stem 20% of circumference.	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.32	5.16		Not determined
205	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128873	147.3511227	Aus Native	Medium	12 to 20	0.41	Mature	2 - Good	2 - Good		3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		10 to 20	2.28	4.92	Will require canopy reduction and dead wooding for retention	Not determined
206	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128837	147.3511251	Aus Native	Medium	12 to 20	0.51	Mature	3 - Fair	3- Fair	minor decay in stem at 6m - low risk	3 - Medium	15 plus	Not Significant	3- Fair	Retain	Positive values		20+	2.49	6.12	Will require canopy reduction and dead wooding for retention	Not determined
207	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.1288	147.3511326	Aus Native	Medium	12 to 20	0.41	Mature	3 - Fair	3- Fair	defect in stem/lateral at 5m - 150mm. Noted dead wood. Lateral over fence with moderate risk defect.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.28	4.92	Will require canopy reduction and dead wooding for retention	Not determined
208	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128761	147.3511454	Aus Native	Medium	12 to 20	0.65	Mature	3 - Fair	3- Fair	decayed lateral in sub leader on footpath side - noted dead wood - 1 limb failure 150mm	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.76	7.8	Will require canopy reduction and dead wooding for retention	Not determined
209	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128725	147.351157	Aus Native	Medium	12 to 20	0.5	Over Mature	4 - Poor	3- Fair	2 decayed laterals over footpath at 5m -	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		20+	2.47	6	Will require canopy reduction and dead wooding for retention	Not determined
210	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128693	147.3511711	Aus Native	Medium	12 to 20	0.47	Over Mature	4 - Poor	4 - Poor	decay in stem at ground - bracket fungi present - moderate risk of whole tree failure. Lateral at 1.5m hollow with decay - lopped lateral over footpath noted dead wood.	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		10 to 20	2.41	5.64	Will require canopy reduction and dead wooding for retention	Not determined
211	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128668	147.3512105	Aus Native	Large	12 to 20	0.65	Over Mature	4 - Poor	3- Fair	Bifurcated stems - low risk of failure east leader - 2 lopped laterals - epicormic growth 150mm - fair attachment. West Leader 200mm failure at 6m - remaining portion high risk - recent limb failure.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Condition & Safety		20+	2.76	7.8	Will require canopy reduction and dead wooding for retention	Not determined
212	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128636	147.3511953	Aus Native	Medium	12 to 20	0.44	Mature	3 - Fair	3- Fair	stem has decay at 2m - moderate risk of failure - noted dead wood.	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
213	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128602	147.3512011	Aus Native	Medium	12 to 20	0.44	Mature	3 - Fair	3- Fair	defect in sub leader over footpath at 8m - sub leader at 6m defect over footpath	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive values		10 to 20	2.34	5.28	Will require canopy reduction and dead wooding for retention	Not determined
214	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.12851	147.3512135	Aus Native	Medium	12 to 20	0.43	Over Mature	4 - Poor	4 - Poor	stem significant decay at 6m to 10m. Moderate risk of failure - noted dead wood - upper canopy dying back	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove	Poor Condition		10 to 20	2.32	5.16	Will require canopy reduction and dead wooding for retention	Not determined
215	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128473	147.3512271	Aus Native	Medium	12 to 20	0.51	Mature	3 - Fair	3- Fair	Defect in lateral at 3.5m over footpath - defect in central leader at 10m	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Condition & Safety		20+	2.49	6.12	Will require canopy reduction and dead wooding for retention	Not determined
216	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128425	147.3512429	Aus Native	Medium	12 to 20	0.33	Over Mature	4 - Poor	4 - Poor	dieback in canopy - dead wood notable - small epicormic shoots on laterals - tree in early decline.	3 - Medium	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition		10 to 20	2.08	3.96	Will require canopy reduction and dead wooding for retention	Not determined
217	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Heley from Entrance rd to Charleville	-35.128389	147.3512431	Aus Native	Medium	12 to 20	0.66	Mature	3 - Fair	3- Fair	slight lean to north - 1 branch failure 200mm - dead wood	3 - Medium	5 to 15	Not Significant	4 - Poor	Retain if possible	Positive amenity values		20+	2.78	7.92	Will require canopy reduction and dead wooding for retention	Not determined
218	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Charleville	-35.128402	147.3511589	Aus Native	Large	20+	0.51	Mature	3 - Fair	3- Fair	Tall upright tree -27m. Failed lateral 150mm. No lower laterals to prune back to. Isolated tree - others around have been removed. Tree will have to be retained as is - or removed.	3 - Medium	0 to 5	Not Significant	4 - Poor	Retain if possible	Positive amenity values		20+	2.49	6.12	1. Initial recommendation is removal. 2. Tree would have to be lopped if canopy is to be reduced - suggest that removal is a better option.	Not determined
219	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Charleville	-35.12838	147.3510166	Aus Native	Large	20+	0.61	Over Mature	4 - Poor	4 - Poor	Tall upright tree to 24m. Internal cavity in lower stem - likely lower risk. 3 failed lateral branches to 150mm. Dead branches present. Mistletoe in canopy - canopy coverage poor - vitality only fair. Defect in stem unions at 12m -200mm defects - high risk.	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove	Condition & Safety		50+	2.69	7.32	1. Initial recommendation is removal - based on poor condition and there are only 5 trees on Charleville side boundary. 2. If retained then canopy reduction required.	Not determined

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
220	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Charleville	-35.128365	147.3509413	Aus Native	Large	20+	0.59	Over Mature	4 - Poor	4 - Poor	Basal decay in stem - 25% of circumference. Bracket fungi present. Moderate risk of whole tree failure. Necrotic zone in stem form 8m - to 17m. High risk of whole stem failure.	3 - Medium	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety		20+	2.65	7.08	Will require canopy reduction and dead wooding for retention	Not determined
221	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Charleville	-35.128349	147.3508463	Aus Native	Large	20+	0.71	Mature	3 - Fair	3- Fair	Rubbing branches and dead wood noted - 2 defects noted in canopy - moderate risk.	3 - Medium	5 to 15	Not Significant	3- Fair	Retain if possible	Positive values		50+	2.87	8.52	Will require canopy reduction and dead wooding for retention	Not determined
222	<i>Eucalyptus cladocalyx</i> Sugar Gum	Boundary on Charleville	-35.12832	147.3507478	Aus Native	Large	20+	0.73	Mature	4 - Poor	3- Fair	Lower stem sound. Slight lean to footpath. Bird chewing in unions in 4 locations. Defect in stem union at 10m - high risk - pruning of canopy can not achieve acceptable reduction without lopping.	3 - Medium	0 to 5	Not Significant	5 - Very Poor	Remove	Condition & Safety		50+	2.90	8.76		Not determined
224	<i>Corymbia citriodora</i> Lemon Scented Gum		-35.129981	147.3495894	Aus Native	Medium	8 to 12	0.41	Semi Mature	3 - Fair	3- Fair	Tree with reasonable form - some suppression from tree 225 - larger tree. No specific defects - does have some retention value based on form and condition	3 - Medium	40 plus	Not Significant	2 - Good	Retain	Sound tree suited to site	Positive values	20+	2.28	4.92		Remove
225	<i>Corymbia citriodora</i> Lemon Scented Gum	Entrance road off Hely	-35.129948	147.3494448	Aus Native	Medium	12 to 20	0.75	Mature	2 - Good	1 - Excellent	Tree identified by development for retention Tree has strong visual impacts and in good condition and form. Likely a significant tree.	3 - Medium	40 plus	Significant	1 - Excellent	Retain Priority	Significant Tree	Sound tree suited to site	50+	2.93	9	Tree will require notable TPZ requirements and some canopy lifting.	Retain - Impacts to Manage
235	<i>Cedrus deodara</i> , (Himalayan cedar)	On Joining Property - School	-35.129736	147.348889	Exotic	Medium	12 to 20	0.6	Mature	2 - Good	2 - Good	On School property - potential for development impacts.	4 - Low	40 plus	Not Significant	1 - Excellent	Retain Priority	Other		20+	2.67	7.2	Tree on school boundary - will require specific protection measures from development.	Retain - Impacts to Manage
236	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13146	147.34859	Aus Native	Medium	12 to 20	0.58	Mature	2 - Good	2 - Good		3 - Medium	40 plus	Not Significant	2 - Good	Retain	Sound tree suited to site	Positive values	20+	2.63	6.96		Not determined
237	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13144	147.34854	Aus Native	Medium	8 to 12	0.45	Mature	2 - Good	3- Fair		4 - Low	15 plus	Not Significant	3- Fair	Retain if possible	Sound tree suited to site		5 to 10	2.37	5.4		Not determined
238	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13144	147.3485	Aus Native	Small	<8	0.22	Mature	4 - Poor	4 - Poor		4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition	Exempt height	5 to 10	1.75	2.64		Not determined
239	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13142	147.34846	Aus Native	Medium	12 to 20	0.57	Mature	2 - Good	2 - Good		3 - Medium	15 plus	Not Significant	2 - Good	Retain	Sound tree suited to site		20+	2.61	6.84		Not determined
240	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13142	147.34843	Aus Native	Small	<8	0.27	Over Mature	4 - Poor	4 - Poor		4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Poor Condition	Exempt height	0-5	1.91	3.24		Not determined
241	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.1314	147.34839	Aus Native	Medium	12 to 20	0.62	Mature	2 - Good	2 - Good		3 - Medium	15 plus	Not Significant	2 - Good	Retain	Sound tree suited to site	Positive values	20+	2.71	7.44		Not determined
242	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13138	147.34834	Aus Native	Medium	12 to 20	1.07	Mature	2 - Good	2 - Good	Medium to large imposing tree in good condition	2 - High	40 plus	Significant	2 - Good	Retain Priority	Significant Tree	Sound tree suited to site	50+	3.40	12.84		Retain - Impacts to Manage
243	<i>Eucalyptus cladocalyx</i> Sugar Gum	Fernleigh rd boundary	-35.13135	147.34808	Aus Native	Medium	8 to 12	1	Mature	2 - Good	2 - Good	Medium to large imposing tree in good condition	2 - High	40 plus	Significant	2 - Good	Retain Priority	Significant Tree	Sound tree suited to site	50+	3.31	12		Retain - Impacts to Manage
244	<i>Eucalyptus camaldulensis</i> River Red Gum	Fernleigh rd boundary	-35.13133	147.34795	Aus Native	Medium	12 to 20	1.2	Mature	2 - Good	2 - Good	Medium to large imposing tree in good condition	2 - High	40 plus	Significant	2 - Good	Retain Priority	Significant Tree	Sound tree suited to site	50+	3.57	14.4	Species endemic to region but not to site	Retain - Impacts to Manage
245	<i>Eucalyptus camaldulensis</i> River Red Gum 8 trees	Fernleigh rd boundary	-35.13133	147.34784	Aus Native	Small	<8	0.15	Young	2 - Good	3- Fair	8 young saplings from large adjacent tree	4 - Low	15 plus	Not Significant	4 - Poor	Remove	Unsuitable for location	Exempt height	0-5	1.50	1.8		Remove
246	<i>Eucalyptus viridis</i> Green Mallee	Line of 4 trees west end near Ambulance station	-35.13128	147.34784	Aus Native	Small	8 to 12	0.2	Mature	3 - Fair	3- Fair	Trees suppressed by large adjacent trees	4 - Low	15 plus	Not Significant	3- Fair	Remove	Retention not practicable		5 to 10	1.68	2.4		Remove
247	<i>Eucalyptus viridis</i> Green Mallee	Line of 4 trees mid section	-35.13127	147.34813	Aus Native	Small	<8	0.15	Mature	3 - Fair	3- Fair	Trees suppressed by large adjacent trees	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	0-5	1.50	1.8		Remove
248	<i>Eucalyptus viridis</i> Green Mallee	Line of 5 trees	-35.13129	147.3483	Aus Native	Small	<9	0.15	Mature	3 - Fair	3- Fair	Trees suppressed by large adjacent trees	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	0-5	1.50	1.8		Remove
249	<i>Eucalyptus platypus</i>	Fernleigh rd	-35.13132	147.3485	Aus Native	Small	<3	0.15	Mature	3 - Fair	3- Fair	Trees suppressed by large adjacent trees	4 - Low	5 to 15	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	0-5	1.50	1.8		Remove
250	<i>Eucalyptus platypus</i>	Fernleigh rd	-35.13133	147.34854	Aus Native	Small	<8	0.15	Mature	1 - Excellent	1 - Excellent		4 - Low	15 plus	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	0-5	1.50	1.8		Remove
251	<i>Cotoneaster species</i>	Fernleigh rd	-35.13118	147.34851	Exotic	Very Small	<3	0.15	Mature	2 - Good	2 - Good	Weed Species	5 - Very Low	15 plus	Not Significant	5 - Very Poor	Remove Priority	Exempt species	Exempt height	0-5	1.50	1.8	Weed Species	Remove
252	<i>Corymbia ficifolia</i> WA Red Flowering Gum	Fernleigh rd	-35.13105	147.34846	Aus Native	Medium	8 to 12	0.6	Dead	5 - Very Poor	5 - Very Poor		5 - Very Low	0	Not Significant	5 - Very Poor	Remove Priority	Condition & Safety	Other	0-5	2.67	7.2	Dead - tree exempt	Remove
253	<i>Eucalyptus camaldulensis</i> River Red Gum	4 saplings near ambulance fence	-35.13118	147.34805	Aus Native	Small	<8	0.15	Young	2 - Good	2 - Good		4 - Low	15 plus	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	0-5	1.50	1.8		Remove
254	<i>Eucalyptus albens</i> White Box	near ambulance fence	-35.13118	147.34781	Endemic	Small	8 to 12	0.4	Dead	5 - Very Poor	5 - Very Poor		5 - Very Low	0	Not Significant	5 - Very Poor	Remove	Exempt species	Exempt species	0-5	2.25	4.8	Dead - tree exempt	Remove
255	<i>Eucalyptus microcarpa</i> Grey box - 21 saplings	cluster of 21 saplings near ambulance fence	-35.13104	147.34793	Endemic	Small	8 to 12	0.3	Young	1 - Excellent	2 - Good	1 stick nest observed - also includes 4 River Red Gum saplings. Dense cluster of trees.	4 - Low	40 plus	Not Significant	4 - Poor	Retain if possible	Positive values	Other	5 to 10	2.00	3.6	retaining one or a number of the trees will not really be feasible - allocation of appropriate TPZ or any individual trees will be very difficult.	Remove
256	<i>Celtis australis</i> (Hackberry)	near ambulance fence	-35.13093	147.34793	Aus Native	Small	<8	0.15	Young	2 - Good	2 - Good	species readily established by seed dispersal - trees are established as weeds	5 - Very Low	5 to 15	Not Significant	5 - Very Poor	Remove Priority	Retention not practicable	Exempt height	0-5	1.50	1.8	Weed Species in this location	Remove
257	<i>Eucalyptus albens</i> White Box	near ambulance fence	-35.13087	147.34818	Endemic	Small	<8	0.15	Young	1 - Excellent	1 - Excellent		4 - Low	40 plus	Not Significant	4 - Poor	Remove	Retention not practicable	Exempt height	5 to 10	1.50	1.8		Remove
258	<i>Eucalyptus albens</i> White Box	50m east of ambulance fence	-35.13081	147.34833	Endemic	Medium	12 to 20	1.2	Mature	3 - Fair	2 - Good	Tree of some age - considered old growth - bees nest present - hollows noted - possible scared tree - requires further investigation	1 - Very High	40 plus	Very significant	2 - Good	Retain Priority	Very Significant tree		100+	3.57	14.4	scare on east side requires investigation	Retain - Impacts to Manage
259	<i>Eucalyptus albens</i> White Box - 18 trees	18 Saplings around above tree	-35.130895	147.34839	Endemic	Small	8 to 12	0.2	Young	2 - Good	1 - Excellent	Trees have established as dense cluster of trees	4 - Low	40 plus	Not Significant	3- Fair	Retain if possible	Positive values		10 to 20	1.68	2.4	retention in a development will be difficult trees very dense - allocation of TPZ very difficult - some near above tree may be retained??	Remove
260	<i>Eucalyptus albens</i> White Box	75 m north west of ambulance fence	-35.13052	147.3485	Endemic	Medium	12 to 20	1.2	Mature	2 - Good	1 - Excellent	Tree of some age - considered old growth - hollows noted. Lopped at 5m many decades ago - epicormic attachment fair to good.	1 - Very High	40 plus	Very significant	2 - Good	Retain Priority	Very Significant tree		100+	3.57	14.4		Retain - Impacts to Manage
261	<i>Eucalyptus albens</i> White Box	90 m north west of ambulance fence	-35.130337	147.348516	Endemic	Medium	12 to 20	1.1	Mature	2 - Good	1 - Excellent	Tree of some age - hollow noted. Lopped at 5m many decades ago - epicormic attachment considered fair to good	1 - Very High	40 plus	Very significant	2 - Good	Retain Priority	Very Significant tree		100+	3.44	13.2		Retain - Impacts to Manage
262	<i>Eucalyptus albens</i> White Box - 160 trees	centre of cluster 70m north east of ambulance fence	-35.130484	147.348371	Endemic	Medium	8 to 12	0.3	Young	2 - Good	1 - Excellent	Trees have established on site since mowing/slashing of are has ceased 20 or more years ago	4 - Low	40 plus	Not Significant	3- Fair	Retain if possible	Positive values		10 to 20	2.00	3.6	retention in a development will be difficult trees very dense - allocation of TPZ very difficult - some near above tree may be retained??	Remove
263	<i>Eucalyptus albens</i> White Box	120 m north of ambulance fence corner - fence road to school	-35.12984	147.3484	Endemic	Medium	12 to 20	1.08	Mature	3 - Fair	2 - Good	Aged tree - no hollows	2 - High	40 plus	Significant	2 - Good	Retain Priority	Significant Tree	Sound tree suited to site	100+	3.42	12.96		Remove
264	<i>Eucalyptus albens</i> White Box - 150 stems	120 m north of ambulance fence corner - fence road to school	-35.12998	147.348359	Endemic	Small	8 to 12	0.3	Young	2 - Good	2 - Good	150 stems 50mm stems to 400mm stems 8-12m height	4 - Low	40 plus	Not Significant	3- Fair	Retain if possible	Positive values		5 to 10	2.00	3.6	retention in a development will be difficult trees very dense - allocation of TPZ very difficult - some near above tree may be retained??	Remove
265	<i>Pistachio, & prunus species</i> Cluster of Shrubs	pile of soil 80m north of ambulance fence	-35.13013	147.34799	Exotic	Small	<8	0.15	Young	3 - Fair	3- Fair	trees have seeded in location - weed species for site	5 - Very Low	15 plus	Not Significant	5 - Very Poor	Remove Priority	Retention not practicable	Exempt height	0-5	1.50	1.8	Weed species to site	Remove

Tree No	Species	General Location	Lat	Lon	Species Origin	General Size	Height M	DBH (m)	Age Class	General Condition	Tree Vigour	Defects/Hazards/Issues Present Commentary on tree	Environ Rating	Expected Remaining Life	Significant Tree Status	Suggested Retention Value	Initial Recommendation for Planning	Primary Reason for Recommendation	Secondary Reason for Recommendation	Replacement Time Frame	SRZ Radius in m from centre of stem	TPZ Radius in m from stem	Other Comments	Proposed Development Impact Jan 2021
266	<i>Pistachio chinensis</i>	60m north of ambulance fence	-35.13037	147.34816	Exotic	Small	<8	0.15	Young	3 - Fair	3- Fair	trees have seeded in location - weed species for site	5 - Very Low	15 plus	Not Significant	5 - Very Poor	Remove Priority	Retention not practicable	Exempt height	0-5	1.50	1.8	Weed species to site	Remove
267	<i>Eucalyptus albens</i> White Box	55m north of ambulance fence	-35.13042	147.34805	Endemic	Medium	8 to 12	0.56	Semi Mature	1 - Excellent	1 - Excellent		3 - Medium	40 plus	Not Significant	1 - Excellent	Retain	Sound tree suited to site	Positive values	10 to 20	2.59	6.72		Remove
268	<i>Eucalyptus albens</i> White Box	20m north of ambulance fence	-35.13064	147.34779	Endemic	Medium	12 to 20	1.1	Over Mature	3 - Fair	2 - Good	hollows noted , bees present, lopped at 5m decades ago - limb failures noted	1 - Very High	40 plus	Very significant	3- Fair	Retain Priority	Very Significant tree	Sound tree suited to site	100+	3.44	13.2		Retain - Impacts to Manage
269	<i>Eucalyptus albens</i> White Box - 75 saplings	20m north of ambulance fence	-35.13073	147.347816	Endemic	Small	8 to 12	0.25	Young	2 - Good	2 - Good	75 saplings ranging from 75mm to 350mm diameter stems - height 8 to 13 meters.	3 - Medium	40 plus	Not Significant	3- Fair	Retain if possible	Positive values		10 to 20	1.85	3	retention in a development will be difficult trees very dense - allocation of TPZ very difficult - some near above tree may be retained??	Remove
270	<i>Eucalyptus albens</i> White Box	17m north of ambulance fence	-35.13064	147.34766	Endemic	Medium	8 to 12	0.5	Semi Mature	1 - Excellent	1 - Excellent		3 - Medium	40 plus	Not Significant	2 - Good	Retain	Sound tree suited to site		20+	2.47	6		Remove

Annexure 2 - Assessment and Evaluation criteria - Definitions.										
Origin		General Tree Size		Age Class		General Condition - summation of all considerations. Includes Stem/Canopy Structure Defects, Form, Canopy Vigour, Extent of any decay, Pest and Disease influences	ERL estimated remaining life in years under current Situation	Tree Vigour	Retention value	
Endemic	Species is native to this location	Very Large	> 25m	New	Recent Planting - last year or two	1 - Excellent	0	1 - Excellent	1 - Excellent	Interpretation Based on overall tree condition, species performance in local environment, expected remaining life and significance of tree in landscape
Aus Native	Species native to Australia but not this location	Large	18-25m	Young	Sapling, extended growth remaining	2 - Good	0 to 5	2 - Good	2 - Good	
Exotic	Species introduced to Australia	Medium	10-18m	Semi Mature	Some remaining growth to reach maturity for the site and species	3 - Fair	5 to 15	3- Fair	3- Fair	
		Small	< 10m	Mature	Considered mature size for site and species - typically no sign of decline	4 - Poor	15 plus	4 - Poor	4 - Poor	
		Very Small	< 3m	Over Mature	Tree has commenced to decline - obvious signs	5 - Very Poor	40 plus	5 - Very Poor	5 - Very Poor	
				Senescent	Extended signs of decline - recovery not expected					
				Dead	Little or no metabolic function remaining					

Environmental Rating	Evaluation Considerations/criteria
1 -Very High	Normally Old growth Remnant Tree, multiple hollows important to endangered fauna, replacement would be well in excess of 150 years Mature or semi mature Endemic Tree with or without hollows, plays an important part in local ecology, or Australian Native that has high substitute values as endemic tree replacement would take 50-100 years Young or semi mature Endemic tree or Australian native species that has some positive values for local fauna/ecosystems - replacement would take 20 or more years. Large Exotic tree with elevated general values. Normally exotic species, or small, young endemic or native that could be replaced in the short term 5-10 years Listed Weed or nuisance species; or very small value or insignificant to local ecology - could be replaced within 5 years or readily replaced with species of greater value
2 - High	
3 - Medium	
4 - Low	
5 - Very Low	

Significant Tree value considerations/criteria	
Very Significant	Defined as Significant Tree by regulatory or other authority or
	Environmental rating 1 or
	Heritage Listed or
	Very High Cultural or heritage Values
Significant	Environmental rating 2 or
	Medium or large tree in good/excellent condition, suited to local environment or
	imposing within the local landscape with long life expectancy and or
	strong amenity values or some cultural or heritage links

Recommended Action for DA	Primary Reasons
Retain Priority	Very Significant tree
Retain	Significant Tree
Retain if possible	Sound tree suited to site
Remove	Positive amenity values
Remove Priority	Poor Condition
	Unsuitable for location
	Species not suited to Environment
	Condition & Safety
	Replaced in short term
	Allow development
	Exempt species
	Exempt height
	Other

Picks		
Replacement times	1	Very significant
0-5	2	Significant
5-10	3	Not Significant
10-20	4	
20+	5	Yes
50+		No
100+		
Known Development Impact		
Remove		
Retain - Impacts to Manage		
Retain - Impacts unlikely		
Not determined		

Tree Height and canopy spread is estimated unless otherwise specified.

Tree stem diameter is measured at approximately 1.4m above - or at a point indicative of the tree dimension where abnormal growth occurs at 1.4m above ground. Multi stemmed trees are calculated as per AS 4970

TPZ – Tree Protection Zone - specified area above and below ground and at a given distance from the trunk set aside for the protection of the tree’s roots and crown to provide for the viability and stability of a tree to be retained where it is potentially subject to damage by development.

SRZ - Structural Root Zone – the area around the base of a tree required for the tree’s stability in the ground - calculated in meters radially from stem centre.

From *Australian Standard 4970-2009 Protection of Trees on development sites*

TPZ and SRZ are calculated from AS 4970

Legend

North Section

Google Earth

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100 m



Legend

South Section

Help Ave.

Google Earth

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100 m

