

Shire of Yilgarn

Project Management Plan – Agroforestry Southern Cross Yilgarn Aggregation

September 2024

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Summary

Outback Carbon Pty Ltd (**Outback Carbon**) wish to request planning approval from the Shire of Yilgarn to establish an innovative 'Agroforestry' tree carbon project (under the ERF [Plantation Forestry Method](#)), on the Pen Agri property portfolio (henceforth named Southern Cross Yilgarn aggregation), located in eastern part of the Shire of Yilgarn, Western Australia.

The Southern Cross Yilgarn aggregation is currently owned by Penagri Farms Pty Ltd and Outback Carbon is looking to purchase the properties. Outback Carbon is a subsidiary of Mitsui & Co., Ltd. and is part of the Mitsui E&P Australia group of companies and will be the project proponent and project manager for the project.

Our goal is to sequester carbon through agroforestry via trees and soil through the establishment of tree plantations, whilst also partaking in increased grazing through the establishment of improved pastures such as perennial and annual grasses and legumes. We believe that our project will have a net benefit for the environment, potentially increasing local rainfall through the small water cycle, reducing impact of soil salinity, help to mitigate wind erosion, reduce CO₂ in the atmosphere, and provide a habitat for native birdlife in the area by providing natural corridors through the landscape. It will also have a net benefit for farm production (increased soil carbon and edible green biomass for livestock).

Our proposal is to establish a plantation of hardwood native species across eight different properties, for the purpose of creating Australian Carbon Credit Units (ACCUs) and sustainable timber products whilst maintaining agricultural activities on the property.

The total area of the aggregation is approximately 18,162 hectares and approximately 15,400 hectares is considered arable. Outback Carbon propose to establish the plantation project/s over the cleared land. The project area/s to be registered with the Clean Energy Regulator will encompass the property cadastral boundaries.

Between 20 - 25% of the arable area will be planted to trees in a row configuration. These remaining inter-rows can continue to be cropped or established with improved grasses and legumes for future grazing opportunities. Outback Carbon will maintain or install high standard boundary fencing and improve the water supply and storage infrastructure for effective future firefighting activities.

It is anticipated the trees will be retained for approximately 40 years before harvest and used for products such as furniture, building products, firewood and biofuels. The carbon permanence period will be 25 years and the tree and carbon crops will be complementary to the predominant traditional agricultural land uses in the area.

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1. INTRODUCTION

Outback Carbon Pty Ltd (Outback Carbon) proposes to establish a plantation of hardwood native species on land located in the Shire of Yilgarn, Western Australia, for the purpose of creating Australian Carbon Credit Units (ACCUs) and high-quality hardwood whilst still maintaining agricultural activities on the property. The plantation will be established under the Emissions Reduction Fund (ERF) 2022 Plantation Forestry method.

This project management plan provides an overview of the proposed establishment and management activities for the agroforestry carbon plantation projects known as the Southern Cross Yilgarn Carbon Farm Project (North and South projects), which is planned for establishment in 2025/2026. Whilst it captures the expected structure and timeline to enable the project to be successful, there may be practical reasons for a variation to be implemented on site (e.g. planting locations, weather conditions, dates of application).

2. PROPERTY INFORMATION

The Southern Cross Yilgarn aggregation is located in the Shire of Yilgarn, and the closest major towns are Merredin and Southern Cross. The aggregation comprises of 8 land parcels (Figure 1):

Avalon Homestead South
Avalon North
Cairns Road
Garra
Marafioti
Newbury
Perilya
South Garra

A site context map is provided in Appendix A and shows the existing surrounding land uses, proximity to towns/settlements and remanent vegetation areas/reserves. The details of the Certificate of Land titles for all land parcels are provided in Appendix B and copies of the Certificates are provided as part of the Development Application form submission.

The total area of the properties are approximately 18,162 hectares and approximately 15,400 hectares is considered arable. Outback Carbon propose to establish the plantation project over the cleared land. The project area/s to be registered with the Clean Energy Regulator (CER) will encompass the property cadastral boundaries and may be registered with the CER as one project, or a series of projects. It is likely the project/s will be established over a number of years.

The geospatial files of the property boundary are included as part of this application and have been separated into the North and South project areas (Appendix C).

2.1 Land Details:

Arable area to be planted in 2025/2026/2027:

- The proposed carbon project areas have been cleared of native vegetation and used for farming, with approximately 14,500 arable hectares available to be planted; and
- Soil types are highly variable and include heavy clay, light clay, sandy loam, sands and loams;

Previous land use:

- Mixed cropping/grazing enterprise currently owned by a Corporate

New land use:

- Plantation forestry with native hardwood species. Proposed to use the inter-row of suitable soil types for either grazing or opportunistic high value cropping (in higher rainfall years as is the practice now)
- Our innovative agroforestry model has been well accepted by all four shires where we currently have carbon projects registered and established. They do not regard it as just 'tree farming', but see it as a complementary land use that brings in welcome large-scale investment ('one neighbour has said that Outback Carbon has spent more money on the property in six months than what has been spent in 20 years')
- The intention is to establish a carbon farming project (tree farming) on all cleared agricultural land with trees in twin rows and 20-30m of interrow where agricultural activities can continue for the life of the project.

Topographic Description:

- Flat to slightly undulating. Garrat South property has gentle hills.

Developed assets:

- Accommodation blocks, one house, silos and sheds (Figure 2) in good condition. Some derelict and unusable houses and sheds also;
- Generally good to average quality fencing;
- Powerlines bisecting parts the property;
- Water sources – varied. Scheme water connected at some properties. Other properties use dams and rainwater. Multiple water tanks across the property. There is no need for extra water for establishing the trees (i.e. no irrigation), just the usual spraying for weeds and insects and water for stock, plus water storage in tanks for firefighting purpose; and
- Developed assets will be retained and maintained. In some cases upgraded (such as water tanks and fencing).

Roads and Tracks:

- Appear to be in a reasonable condition.

Nearby conservation estates:

- Baladjie Lake Nature Reserve
- Unnamed WA43219 Nature Reserve
- Various Threatened Ecological communities (TEC) located on property and within the surrounding area – Eucalypt Woodlands of the Western Australian Wheatbelt. Remnant vegetation is located primarily along lot/paddock boundaries and will be retained.

Aboriginal Cultural Heritage Areas:

- Based on a review of the Aboriginal Cultural Heritage Inquiry System ([Aboriginal Cultural Heritage Inquiry System \(dplh.wa.gov.au\)](http://dplh.wa.gov.au)) there are no known places present on the property.

Nearby sensitive land uses:

- None that we are aware of.

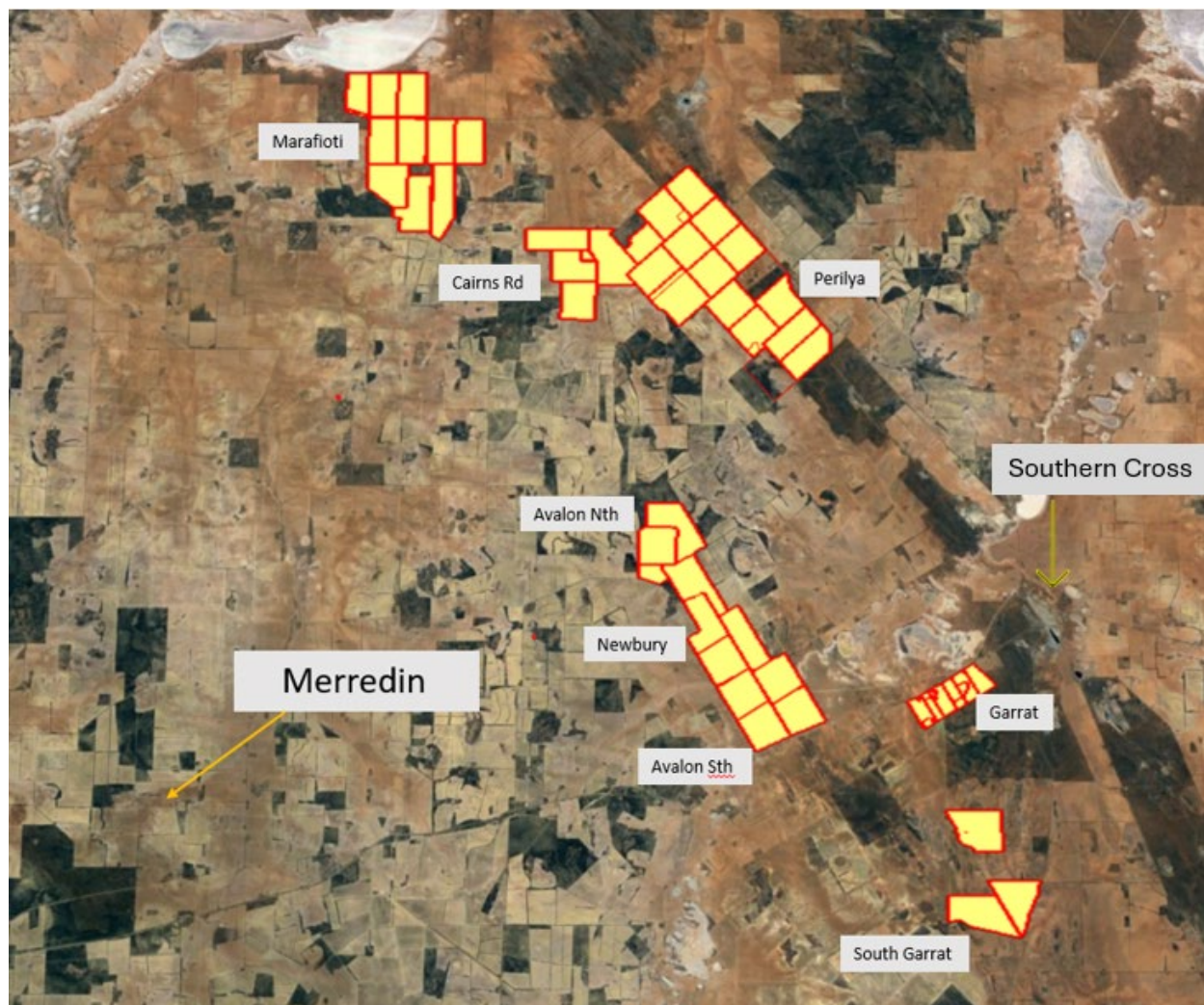


Figure 1 Map showing the location of the Southern Cross Yilgarn aggregation in relation to the towns of Merredin and Southern Cross



Figure 2 Infrastructure located at South Garrat.

3. POTENTIAL BENEFITS

There is growing discussion and evidence that revegetating areas could lead to increasing rainfall by facilitating access to ground water (The missing Link: Ground water Creates rain, May 2024) and a connection between increasing rainfall and revegetation (Rainfall Enhances Vegetation but Does the Reverse Hold? Boland, John 2014). Outback Carbon plans to revegetate between 20 - 25% of the arable property area and therefore believes there will be minimal negative impact, and potentially numerous positive impacts realised on the property area and greater region.

The proposed plantation will be established over the arable land. The planted areas will be established in a design similar to a shelterbelt. It is Outback Carbon's intention that cropping and/or grazing will continue on the remaining property area after the first two-three years, when the trees are more robust. The grazing should also serve as a fire risk mitigation tool, by reducing the fuel load during the hot summer months.

The introduction of trees will provide a diversified farm income from carbon and provide shelter for livestock and enhance other environmental aspects such as improved soil condition, reduced wind erosion (Figure 3) and increased soil carbon. Visually the trees are appealing, and the properties will showcase an interesting agroforestry model whereby the land is used for multiple purposes.

The predicted value of the established hardwood Eucalypt species is uncertain in 2023, but Outback Carbon believes there could be considerable upside in the future value of biomass whether for building products, fine furniture, bio-fuels, bio-char or firewood. Following the Government of Western Australia's decision to stop native timber harvesting the demand for WA native timber rose sharply, this is expected to continue. It is envisaged as much value adding as possible to the resource will be done locally, potentially creating a new industry in the area and local jobs such as project management and monitoring.

Further in terms of environmental impact, regionally the soils are variable and are currently opportunistically grazed with livestock and cropped. Without an adequate soil cover protecting the soil, strong winds erode and blow the upper layer of the soil profile away. Establishing shelterbelts across the property will protect the soil surface and reduce wind velocity, thus reducing wind erosion and related soil impacts on nearby farm operations.



Figure 3 Wind erosion impact in a paddock located on the Perilya property in the Shire of Yilgarn. Note the soils are yellow/brown shallow sand.

4. COMPLIANCE WITH THE CODE OF PRACTICE FOR TIMBER PLANTATIONS WA

The general focus of the Code of Practice for Timber Plantations in Western Australia (Forest Industries Federation (WA) Inc, 2014) is to provide goals and guidelines to plantation managers so that plantation operations in Western Australia are conducted in a manner in accordance with accepted principles for good plantation management. Many of the principles and goals of the Code are relevant to this proposal for the Southern Cross Yilgarn property to establish and maintain a native timber plantation on former cleared farmland.

This proposal complies with the Management Principles stated within the Code of Practice:

1. Principles of environmental care – there will be no clearing of native vegetation. Water quality and water yields will be managed by careful planning. There will be a reduction in soil erosion from strong winds.
2. Safety of personnel, activities and the public - Site preparation, planting and most maintenance activities will be undertaken by experienced sub-contractors. All parties will hold necessary insurances and contractors are required to have their own HSE systems that incorporates safety training and management.
3. Comprehensive planning – the project proposal has been developed through communication with the Shire of Yilgarn to confirm there is compliance with relevant Planning Guidelines.
4. Safe and practical access – around and within the establishment areas there will be firebreaks and tracks that will have adequate and safe access for fire-protection and property maintenance activities. This will be detailed in a separate BushFire Management Plan.
5. Sound establishment and maintenance methods – the establishment procedures will incorporate high standards of mechanical and manual operations. All operations will be supervised by experienced persons. Operations will take place using quality equipment and materials.
6. Timber Harvesting – will be planned and carried out to ensure the principles of environmental care are adhered to.
7. Protection measures applied – the project design incorporates vermin and weed control before, during and after establishment. Rotational grazing in the inter rows will also be an active fire risk mitigation tool. Competent implementation of these measures will greatly increase plant survival after establishment. This will be detailed in a separate BushFire Management Plan.
8. Monitoring to be undertaken over two years:
 - Seedling health and establishment quality: July-August 2025
 - Seedling survival: Sept - December 2025
 - Pests: July-January (monthly)
 - Weeds: July-January (monthly)

The project will comply with the Code of Practice for Timber Plantations in Western Australia (Forest Industries Federation (WA) Inc, 2014) and compartments will be designed in accordance with the Guidelines for Plantation Fire Protection (FESA, 2011). The basic planting configuration will be the same across the property. Where practicable the compartment boundaries will follow existing roads or natural features. The design will further consider site topography, slope, aspect, road direction, strategic access to water, and planting direction in relation to fire control and compartment size. In addition, firebreaks will be maintained in accordance with Shire regulations.

5. DEVELOPMENT PLAN

Project establishment is proposed to occur in 2025, 2026 and 2027. The plantation compartments will be designed in accordance with the Guidelines for Plantation Fire Protection and Shire requirements (compartments 30 ha or less). The basic planting configuration will be the same across the property. Establishment will be via hand planting seedlings or machine planted.

Subject to the impacts of climate (particularly seasonal rainfall) and possible plant browsing by kangaroos and/or rabbits, there may need to be infill planting in the second year.

The proposed program is summarised below in Table 1.

Table 1 Proposed works program

Year	Establishment		Seed Collection
	Forestry	Improved Grasses and legumes	
2024/2025	Spray topping	Spray topping	Yes for 2024+
	Vermin control	Vermin control	
2025/2026	Pre-establish spraying	Pre-establish spraying	
	Seedlings planted	Improved grasses and legumes sown in the interrow (or before planting in 2025)	
	Insect control	Insect control	
2026/2027	Infill planting if required	Insect control	
	Monitoring	Monitoring/ inspection	

6. SILVICULTURE PLAN

6.1 Establishment Species

It is anticipated the establishment will incorporate up to four native hardwood species (likely *Eucalyptus salmonophloia*, *E. camaldulensis*, *E. wandoo* and *E. salubris*, but still to be finalised) at approximately 200 stems per hectare.

6.2 Establishment Areas

The establishment operations will occur across the all the properties over 2-3 years with some additional in-filling planting expected post establishment.

The proposed draft plantation designs are provided in Appendix D. It is likely that the final designs will differ from the ones presented in this application and this is because Outback Carbon do not yet own the property and are gathering site specific information which will affect the design. However, we believe what is presented in this application is mostly correct. We are happy to provide new designs once the plantation is established, or if the Shire wish, prior to any establishment works have started.

The proposed compartments will be 30ha or less and the details of these are provided in Appendix E. It should be noted that due to the plantation configuration comprising twin rows 5m apart and a wide 20-30m inter-row, each twin row has an effective 20-30m break with no trees on either side (Figure 4).



Figure 4 Example of plantation configuration comprising twin rows with wide inter-row

Planted rows will generally be in a north south direction, however there may be some instances where this varies. For example compacted soils from agricultural tram lines or natural topography.

It is anticipated that in drier years, agricultural production from within the inter-rows will be less than average, as is the case now with broadacre agriculture.

6.3 Establishment Program

Activities include summer vermin control, broadacre boom spray weed and pest control based on knockdown and residual herbicide application, and insect control via insecticides. A machine will be used to scalp, shallow rip and roll the soil both before and after the rainfall season has started to enable water harvesting and tree planting (Figure 4 and Figure 5).



Figure 5 Example of rip and shallow scalp of soil

The planting activities will take place between May and August each year depending upon rain events. Planting will be via machines or hand planting. Irrigation will not be required, and the trees will use rainfall and water in the soil for their survival. It is proposed improved annual grasses and legumes will be established opportunistically either in April/May/June in the year before project establishment or first year.

The plant and equipment expected to be used during pre-establishment and establishment activities include:

- Weed sprayers and associated machinery;
- Large scale seeding equipment;
- Low loader delivery machinery;
- Tractors and ripping/scalping equipment (Figure 6);
- Tree planter equipment ;
- Trucks for herbicide, fertiliser and seedling deliveries; and
- Light vehicles and trailers (Figure 7).

Post establishment, and for on-going maintenance, the following plant and equipment are expected:

- Grader equipment or weed sprayers for firebreaks; and
- Light vehicles during maintenance, monitoring and inspection activities.



Figure 6 Rip, scalp and fertiliser machine



Figure 7 Light vehicles to transport tree planting staff and seedlings. Rip and scalp lines where trees are planted also shown.

Two locally based project managers (if able to be sourced locally) will be required for at least the first four years of establishment, with at least one for the remainder of the project life (25 - 40 years) managing the plantations, plus local seasonal employment for grazing and cropping activities.

Local and regional contractors will be given the opportunity to contract for establishment and/or maintenance activities for the project. The contractor workforce will be housed at one of the southern properties existing accommodation facilities or in the Southern Cross townsite. It is estimated that up to 15 people will be mobilised for these planting activities which will occur over an 8-week planting cycle. These operations include:

- Annual/perennial grasses and legume establishment;
- Weed control (pre-establishment);
- Rip and scalp activities;
- Seedling planting;
- Monitoring and inspection (for seedling survival).

6.4 Maintenance

Outside of the establishment phase, maintenance activities will be reviewed annually considering site and surrounding conditions, seasonal circumstances and Shire of Yilgarn requirements. It is anticipated Outback Carbon will employ 1-2 local people to ensure the sites are well maintained and support future monitoring activities. Harvesting is expected to occur when the trees have aged approximately 40 years. Plantation maintenance activities include:

- Weed control in the interrow for improved pastures (post establishment and for project life);
- Rotational grazing;
- Insecticide applications if necessary;
- Firebreak and access roads upgrades annually or as required;
- Vermin control;
- Fence and gate maintenance, if necessary;
- Infrastructure upkeep, and
- Monitoring inventory (for carbon assessment and timber products) and inspections.

Post establishment, weeds within plantation will be controlled via grazing animals and weeds within firebreaks will be mechanically or chemically controlled. Rotational grazing of animals will only be introduced once the seedlings are robust, likely 2 to 3 years post establishment. Should declared weeds be identified (such as skeleton weed) they will be managed in accordance with DPIRD requirements. Should vermin such as rabbits or insects be identified during regular inspections, they will be managed accordingly i.e. fumigation of rabbit warrens, aerial insecticide spray etc.

6.5 Waste Products

Table 2 lists typical waste products that may be produced over the establishment and maintenance phases. Every endeavour will be made to reduce waste, reuse or recycle. In the event waste needs to be disposed of, it'll be disposed of in an appropriate licensed facility.

Table 2 The following waste materials may be produced and disposed of during establishment and maintenance phase

Waste Product	Disposal
Residual chemicals /drums	Taken off-site and disposed of at licensed facility
Left-over fertiliser	Taken off-site for use elsewhere or disposed at licensed facility
Seedling trays/pallets	Taken off-site and re-used by nurseries
General household refuse	Taken off-site and disposed
Old farm machinery, old fencing, scrap metal	Either taken off-site by metal recyclers or buried

7. HARVESTING AND TRANSPORT

Harvesting is expected to occur when the trees are approximately 40 years. We are aware that currently there is limited local processing of timber in the Shire of Yilgarn and transport to a suitable processing facility will be considered in detail once the plantation is maturing and the timber inventory results have been analysed. In the potential absence of future local processing facilities within reasonable haulage distances, spot milling may be considered as an alternative and other on farm based mobile units for biochar/biofuels production.

The volume and timing of heavy vehicle movements on public roads will be carefully considered. The roads to be used vary between properties dependent on their location, however the Great Eastern Highway will likely be the main road used for transport.

There are four (4) main stages during the Project life where vehicles will require general access to Public Roads.

1. Initial establishment period;
2. General periodic management (including seed collection);
3. Annual firebreak maintenance, inspections and monitoring; and
4. Harvest.

Impact on Public Roads

Table 3 below indicates a generally low level of impact on Public Roads by Project vehicles over an extended period of time.

Table 3 Summary of project vehicle use and impact on public roads

Project Stage	Vehicle Types Used on Public Roads in Operations	Frequency of Public Road Use	Impact on Public Road
Initial Establishment: Plantation	1. Low-loader delivery (and removal) of tractor and ripping/scalping equipment 2. Seedling deliveries 3. Light vehicles (personnel, equipment & material with trailers)	1. Maximum of 8 movements – 4 initially and 4 on completion (May-June) 2. Approx. 16 B doubles or single trailer deliveries of seedlings. 3. Personnel will stay locally during establishment and travel internally to work sites.	1. Negligible 2. Negligible 3. Negligible
Initial Establishment: Perennial and legumes	1. Delivery and removal of tractor and seeding equipment 2. Light vehicles	1. Maximum of 8 movements – 4 initially and 4 on completion (May-June) 2. Personnel will stay locally during establishment and travel internally to work sites.	1. Negligible 2. Negligible
General periodic Management including seed collection	Light vehicles for personnel	Personnel will stay locally during establishment and travel internally to work sites.	Negligible
Annual Firebreak Maintenance or project/property inspection	1. Grader or tractor with scraper/blade/bucket. May require mobilisation with low loader or large truck. 2. Light vehicles for inspections	Single travel to and away from property (September).	Negligible
Harvest	1. Harvest machinery (TBD) 2. Timber transport TBD, 3. Light vehicles (for personnel)	Unknown. Dependent on whether onsite processing/ value adding or transported to central facility.	Unknown.

A Harvest Plan including transport will be submitted to the Council for separate approval leading up to the commencement of harvesting. This plan will comply with the Code of Practice for Timber Plantations in Western Australia. The Harvest Plan will specify travel routes and expected impacts associated with any timber harvesting.

8. WATER USAGE

Irrigation will not be required, and the trees will use rainfall and water in the soil for their survival.

Water will be required throughout plantation life for the purpose of typical farming practices, such as:

- application of herbicide and insecticide
- fire management. Water stored in tanks prior to fire season
- stock water when animals are re-introduced
- domestic uses. Human consumption in accommodation areas.

It is proposed water will be sourced from existing means such as the Mains water connections, dams and rainwater harvested from roofs. In some circumstances water may be trucked in.

9. BUSHFIRE MANAGEMENT

Four Bushfire Management Plans (BFMP) have been prepared and are provided as an attachment to this application (Appendix F). Due to the distance covered across the land parcels, the plans have been developed for the following land parcels:

- Marafioti
- Cairns Road/Perilya
- Avalon North, Newbury and Avalon South
- Garrat and South Garrat

As more information becomes available the BFMP will be updated and made available to the Shire of Yilgarn.

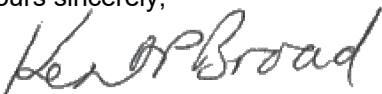
In September 2024 a Bushfire Consultant undertook a Bushfire Attack Level (BAL) assessment on the two accommodation blocks located at Avalon South and Garrat South. These reports have been provided as part of the Shire application.

10. CONCLUSIONS

We trust the information within this document provides adequate detail on the proposed project. We are requesting that the Shire provide approval for public consultation, and we look forward to receiving the community feedback on the Southern Cross Yilgarn proposal.

If you have any queries or require any additional information, please do not hesitate to contact us. We look forward to working with the Shire of Yilgarn in establishing a unique agroforestry plantation project that benefits the community, the environment and the eastern Yilgarn region.

Yours sincerely,



.....

Kent Broad

General Manager WA Carbon Projects
Outback Carbon

11. REFERENCES

ABC News (2012), More Carbon Farming Methods on the Way, 2 July 2012. Quotation by shadow minister Greg Hunt, on the subject of carbon farming projects and permanence.

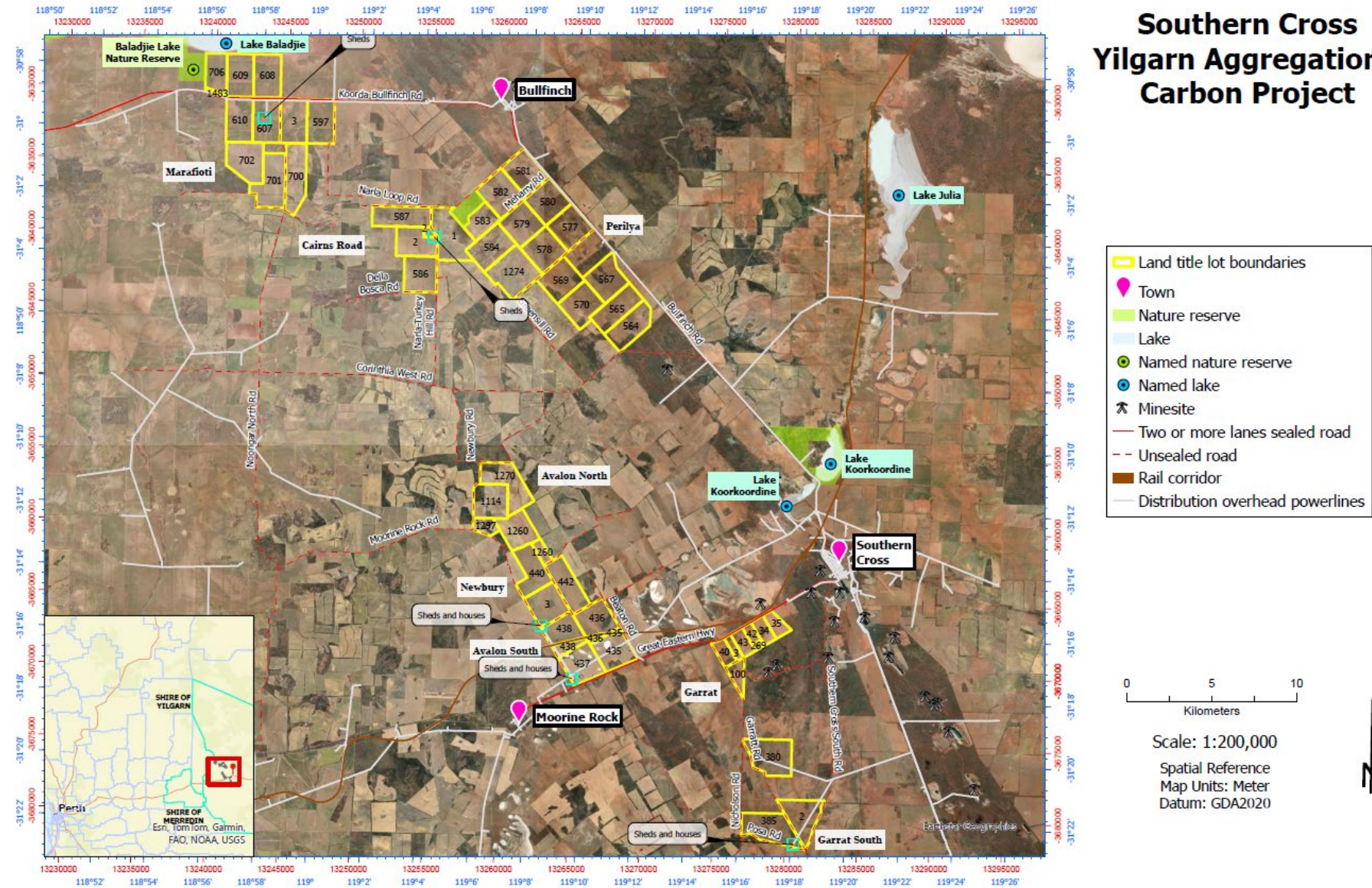
Alchin, M., Tierney, E. and Chilcott, C. (2010). *Carbon Capture Project – Final Report, An evaluation of the opportunity and risks of carbon offset based enterprises in the Kimberley-Pilbara region of Western Australia*, Department of Agriculture and Food Western Australia, Kununurra.

Fire and Emergency Services Authority (FESA) (2011) *Guidelines for Plantation Fire Protection*.

Forest Industries Federation (WA) Inc, (2014) *Code of Practice for Timber Plantations in Western Australia*.

APPENDIX A
Context map

Southern Cross
Yilgarn Aggregation -
Carbon Project



This document has been prepared by Outback Carbon with sole purpose of providing a general guide. Outback Carbon takes no responsibility for any outcomes, actions or losses resulting either directly or indirectly from interpretation, misinterpretation or implementation.

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APPENDIX B

Certificate of Land Title details

Block Name	Title Details			
	Lot	Plan	Volume	Folio
Avalon North	1114	152389	2149	479
Avalon North	1260	152455	2149	478
Avalon North	1270	152458	2149	480
Avalon North	1297	152626	2149	482
Avalon Homestead South	435	202686	2149	481
Avalon Homestead South	436	202686	2149	481
Avalon Homestead South	437	202686	2149	481
Avalon Homestead South	438	202686	2149	481
Garrat	40	89827	2023	647
Garrat	3	89945	2023	647
Garrat	42	89828	2136	801
Garrat	43	89829	2136	801
Garrat	269	152463	2136	801
Garrat	100	97065	2154	693
Garrat	35	144526	2138	310
Garrat	34	144527	2138	310
Newbury	3	62102	2714	58
Newbury	440	202692	1412	735
Newbury	442	202692	1420	269
South Garrat	2	67071	2827	475
South Garrat	380	203769	1936	932
South Garrat	385	203769	2827	473
Perilya	564	202715	1923	533
Perilya	565	202715	1923	534
Perilya	567	202721	2687	796
Perilya	569	202721	2687	796
Perilya	570	202721	2687	796
Perilya	578	202727	1923	536
Perilya	577	202727	1992	315
Perilya	580	202727	1992	316
Perilya	581	202727	1992	316
Perilya	579	202727	1336	603
Perilya	582	202740	2017	658
Perilya	583	202740	2017	658
Perilya	584	202740	1921	498
Perilya	1274	152516	1921	500
Cairns Rd	1	31133	2524	469
Cairns Rd	2	31133	2524	470

Cairns Rd	586	202740	1238	295
Cairns Rd	587	202740	1694	287
Marafioti	3	30502	2229	749
Marafioti	597	202742	2229	749
Marafioti	607	202767	2229	749
Marafioti	610	202767	2229	749
Marafioti	1483	180038	1352	358
Marafioti	608	202767	1564	225
Marafioti	609	202767	1564	225
Marafioti	702	202779	319	65A
Marafioti	700	202779	319	64A
Marafioti	701	202779	319	64A
Marafioti	706	202780	1369	500

APPENDIX C

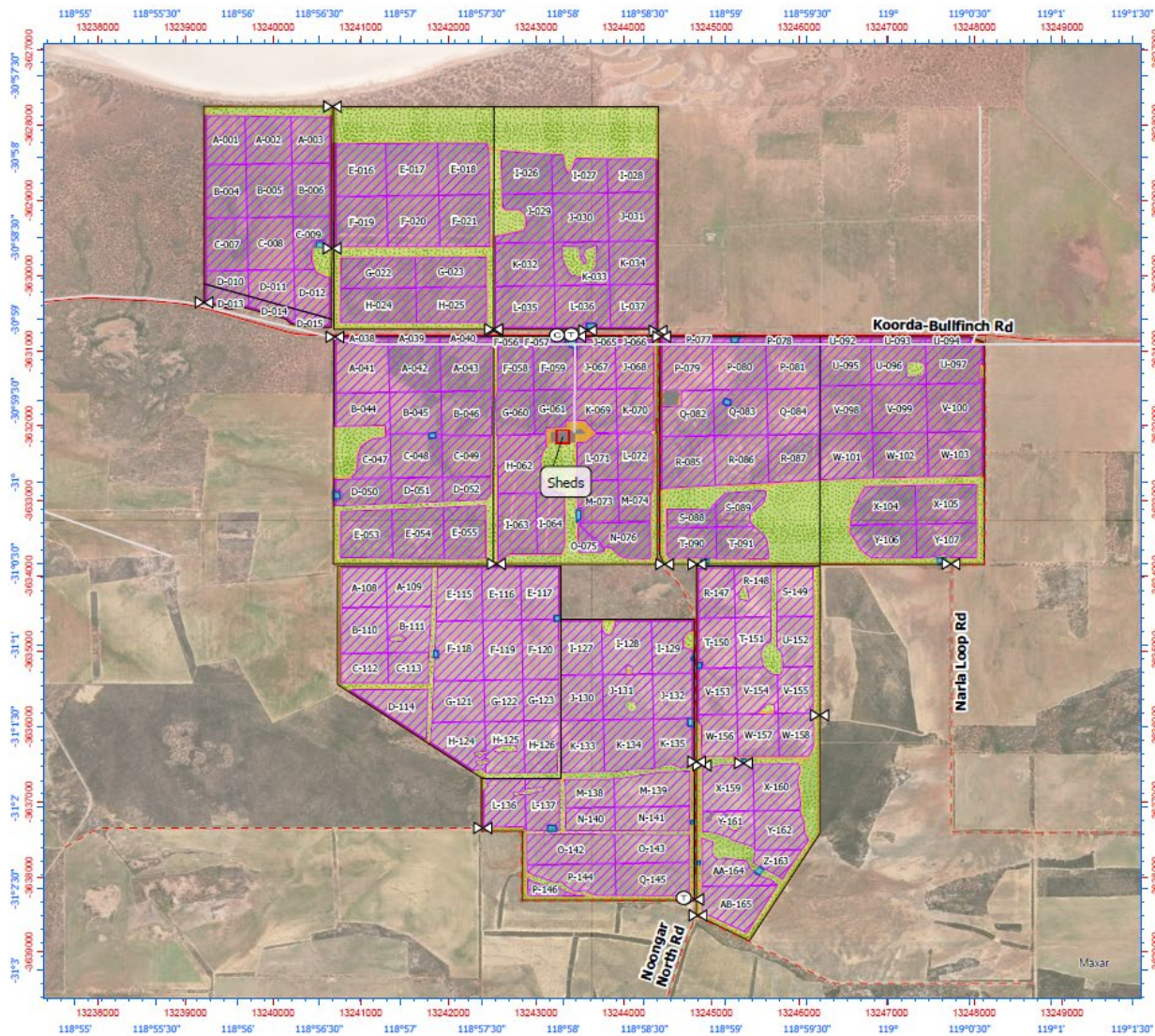
Geospatial Files



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APPENDIX D

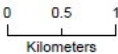
Proposed Plantation Designs (Draft)



Plantation Design (Draft) - Marafioti

- Proposed plantation compartment
- Trafficable fire break
- External boundary firebreak
- Proposed cannister location
- Proposed fire tank location
- Emergency access
- Land title lot boundaries
- Remnant vegetation
- Dam
- Other exclusions
- Two or more lanes sealed road
- Unsealed road
- Distribution overhead powerlines

30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.



Scale: 1:45,000

Spatial Reference

Map Units: Degree

Datum: GDA2020

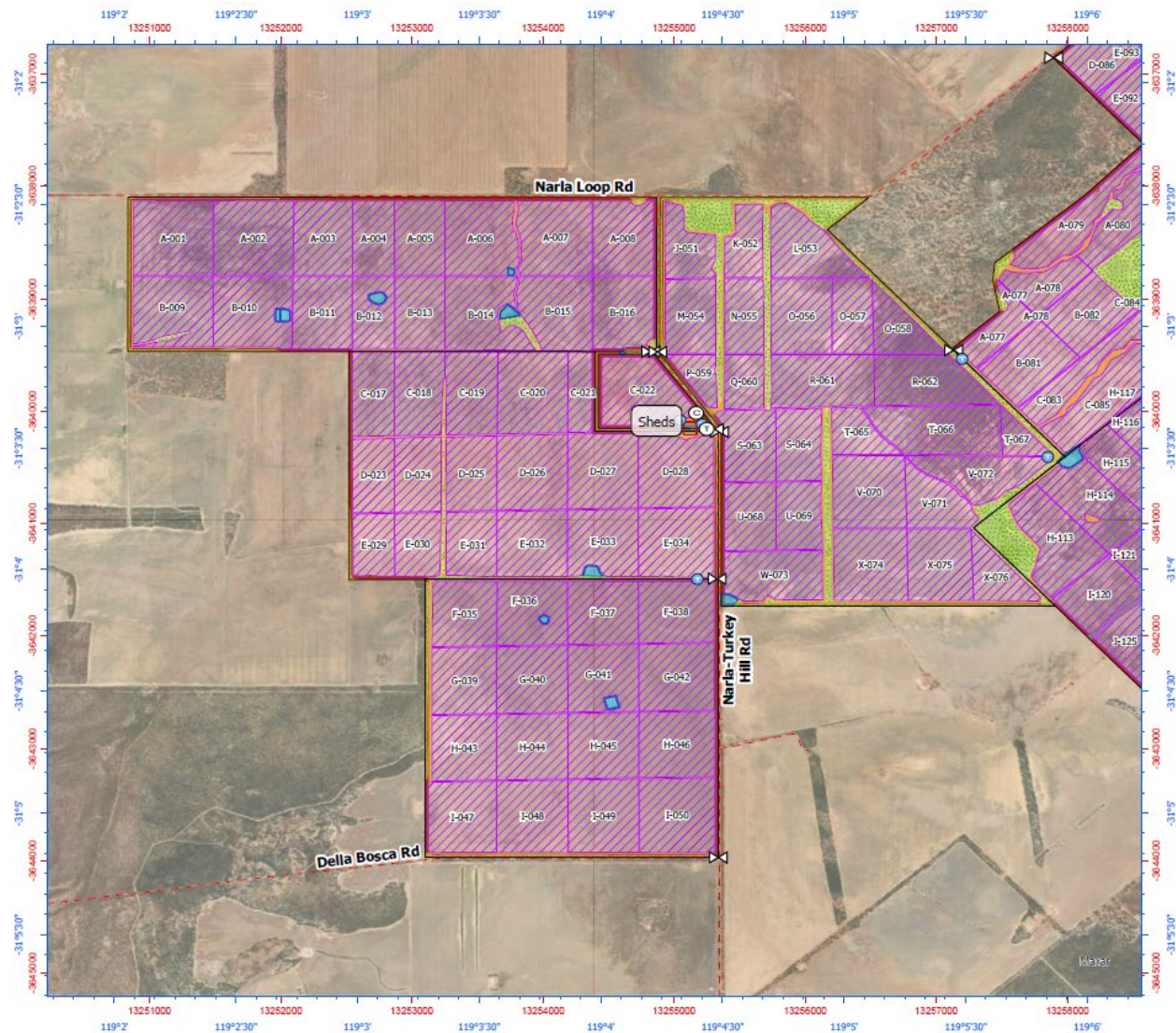


Grid shown at 1,000m interval
Graticule shown at 30" interval

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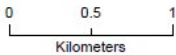
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Plantation Design
(Draft) - Cairns Road



- Proposed plantation compartment
- Trafficable fire break
- External boundary firebreak
- Proposed cannister location
- Proposed fire tank location
- Emergency access
- Stock tank
- Land title lot boundaries
- Remnant vegetation
- Dam
- Other exclusions
- Unsealed road

30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.



Scale: 1:30,000

Spatial Reference

Map Units: Degree

Datum: GDA2020

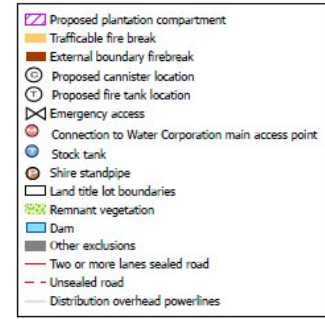
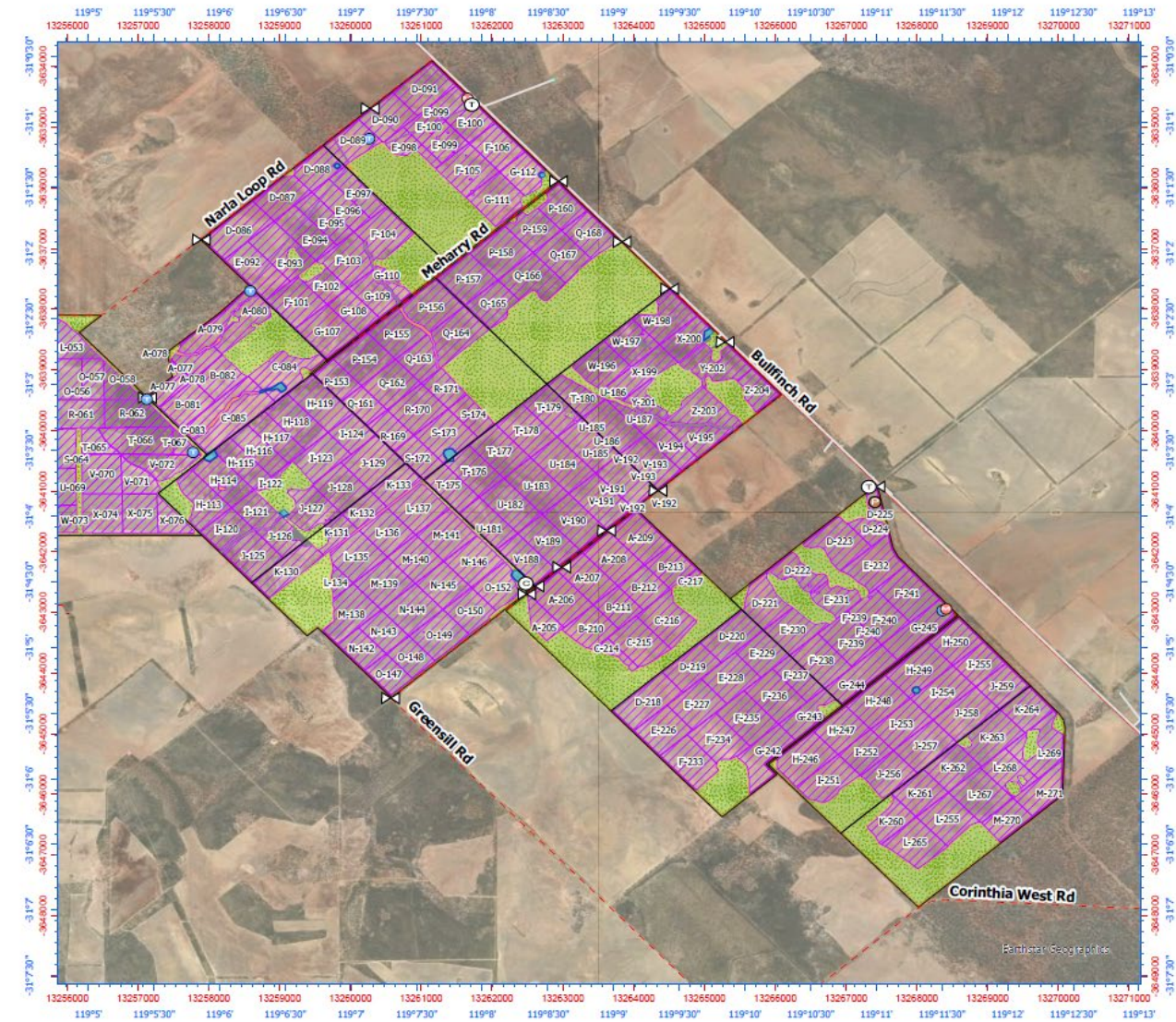


Grid shown at 1,000m interval
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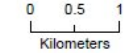
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Plantation Design
(Draft) - Perilya



30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.



Scale: 1:55,000
Spatial Reference
Map Units: Degree
Datum: GDA2020

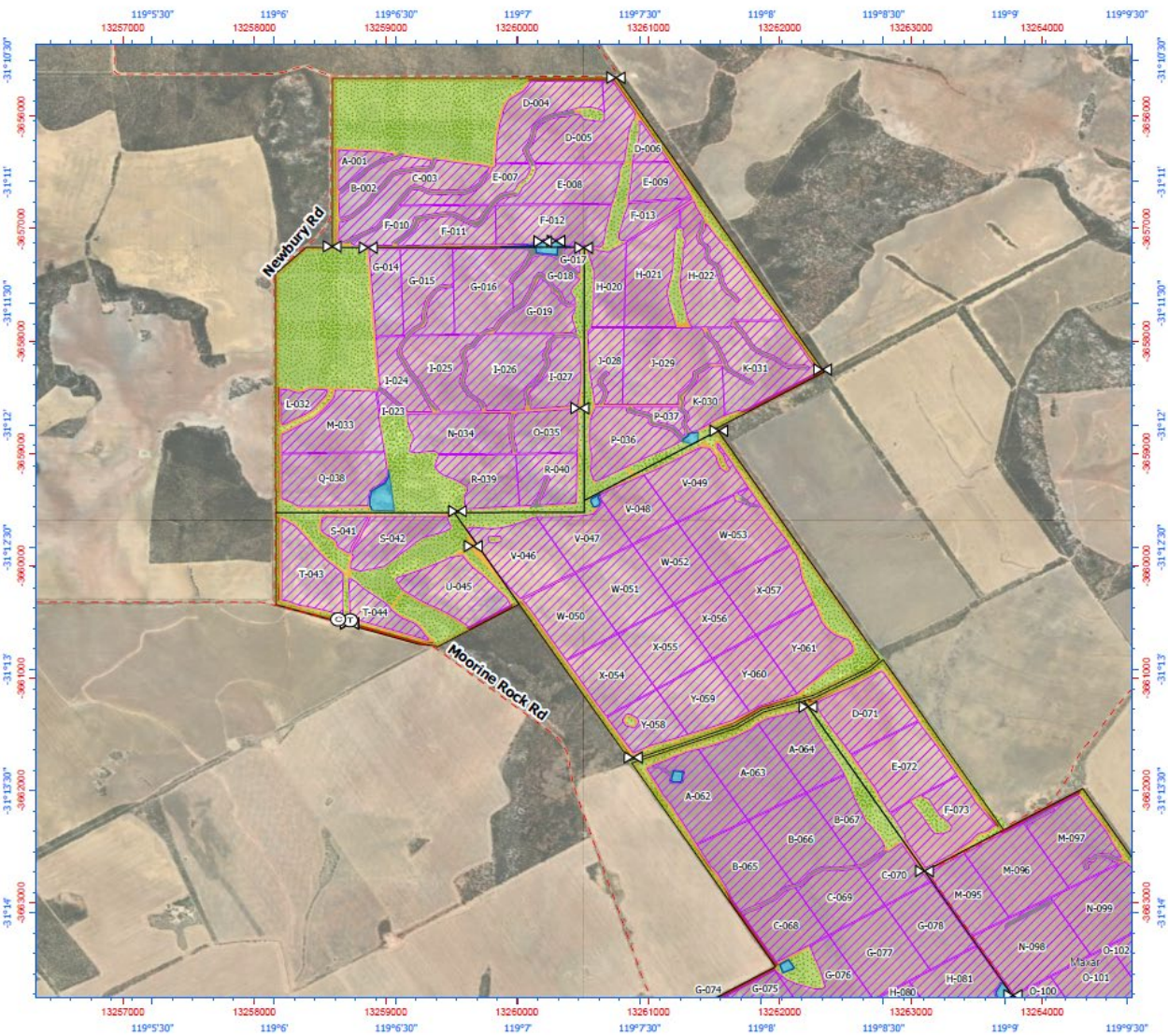


Grid shown at 1,000m interval
Graticule shown at 30" interval

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Plantation Design
(Draft) - Avalon North



- Proposed plantation compartment
- Trafficable fire break
- External boundary firebreak
- Proposed cannister location
- Proposed fire tank location
- Emergency access
- Land title lot boundaries
- Remnant vegetation
- Dam
- Other exclusions
- Unsealed road

30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.

0 0.5 1
Kilometers
Scale: 1:30,000
Spatial Reference
Map Units: Degree
Datum: GDA2020

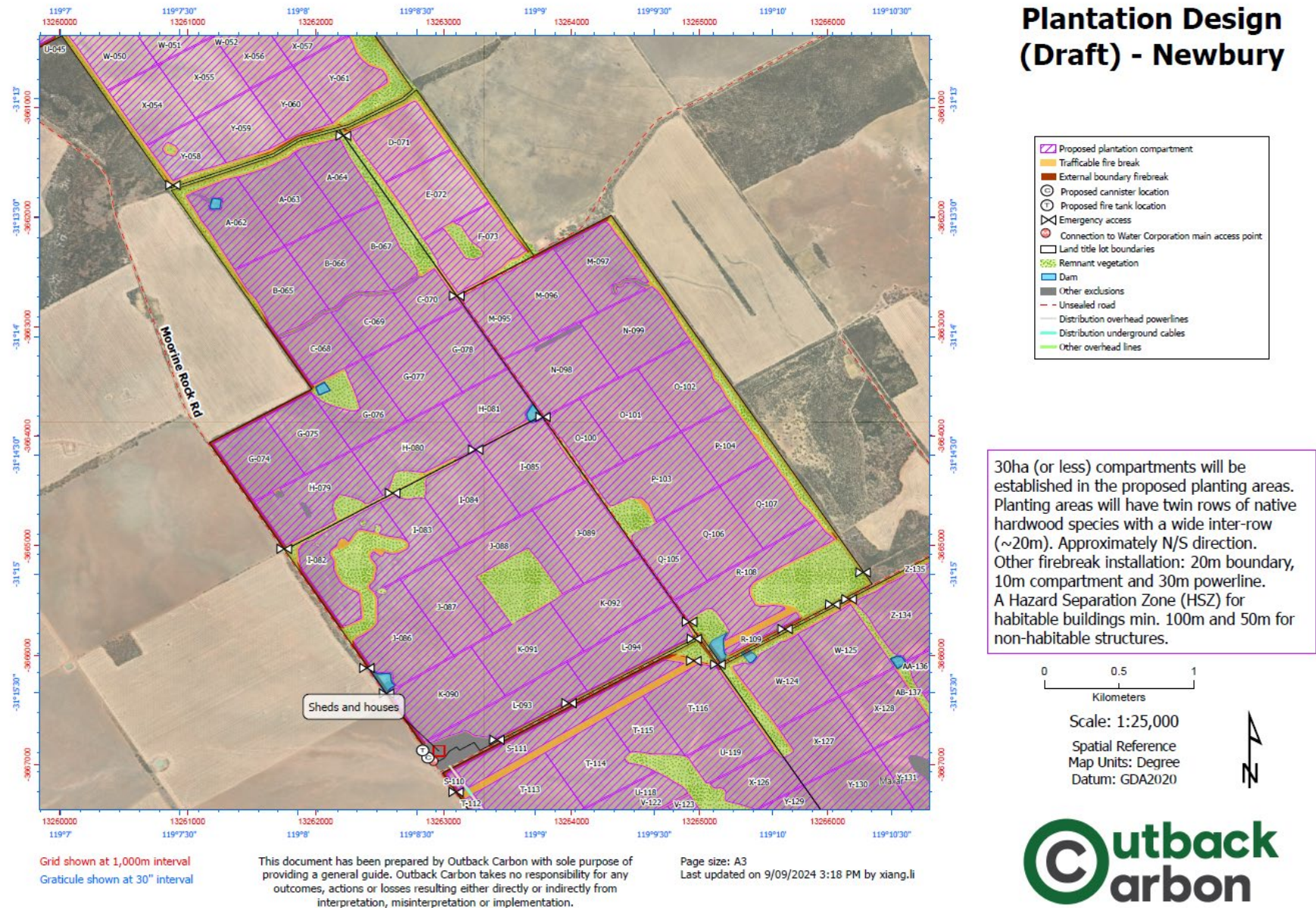


Grid shown at 1,000m interval
Graticule shown at 30" interval

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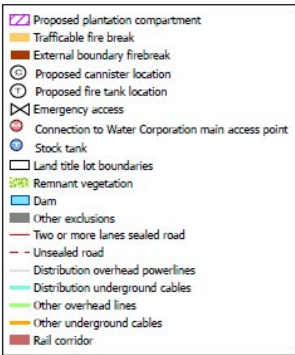
Plantation Design
(Draft) - Newbury



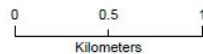
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Plantation Design
(Draft) - Avalon South



30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.

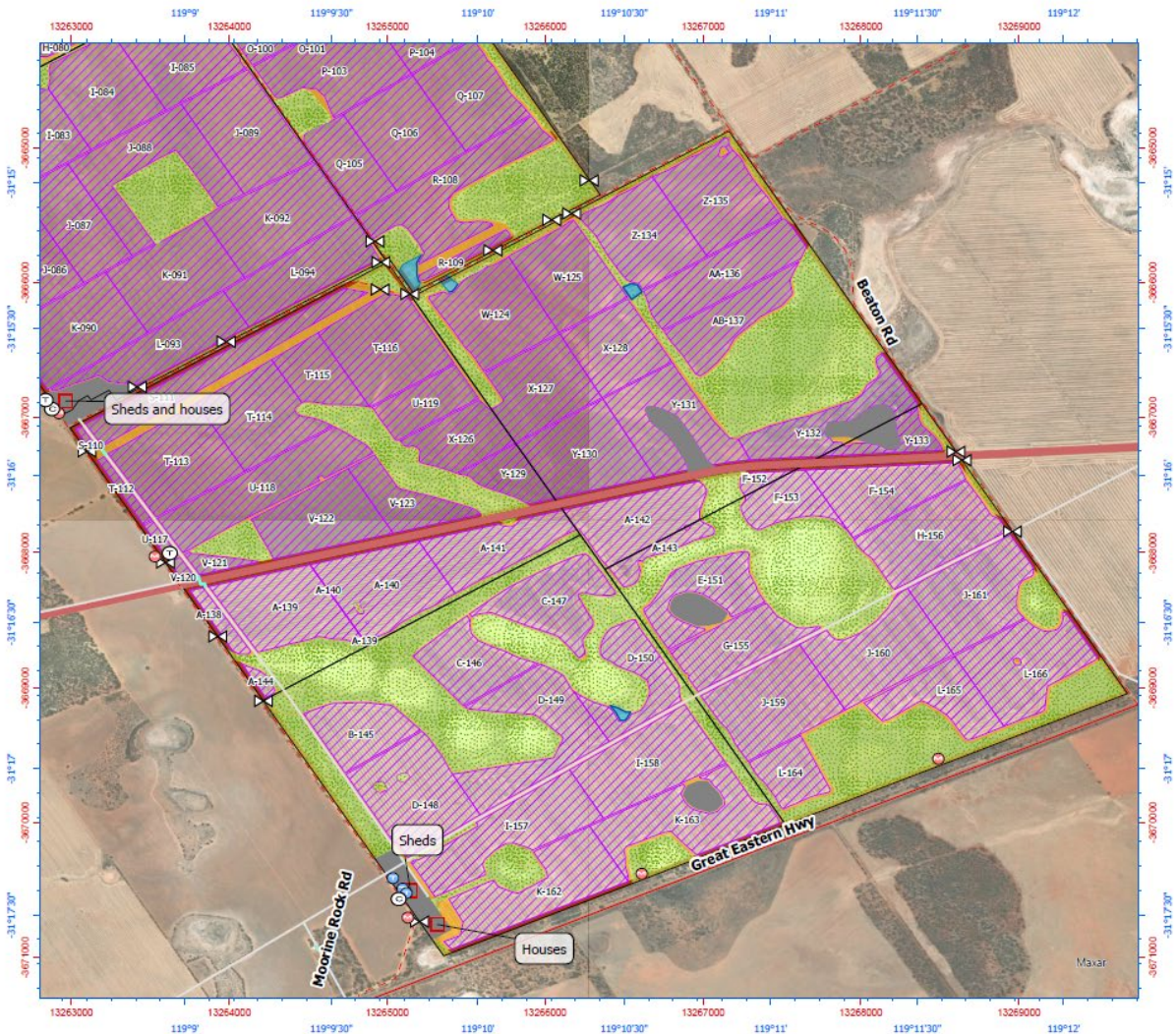


Scale: 1:25,000

Spatial Reference

Map Units: Degree

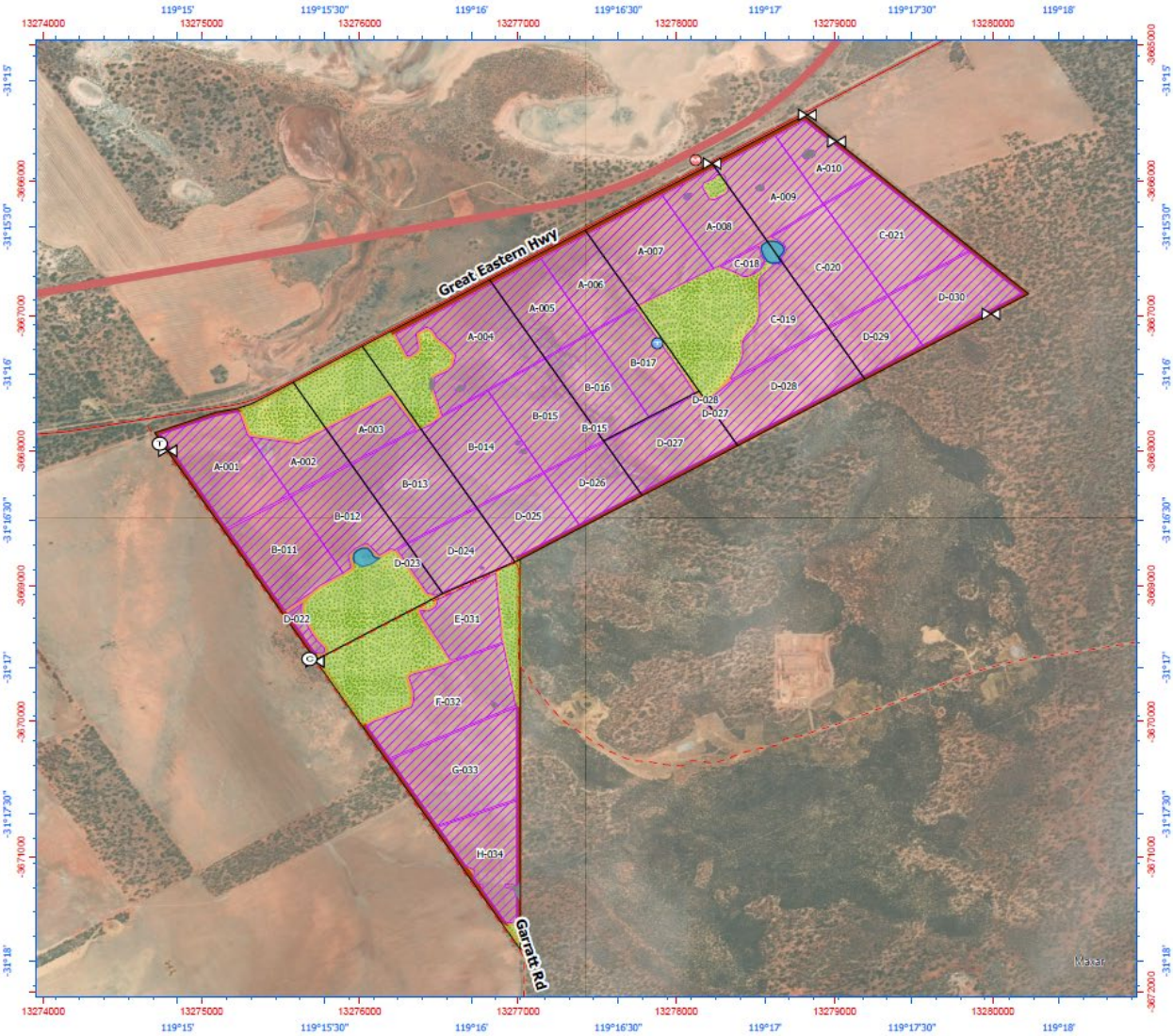
Datum: GDA2020



Grid shown at 1,000m interval
Graticule shown at 30" interval

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Plantation Design (Draft) - Garrat

- Proposed plantation compartment
- Trafficable fire break
- External boundary firebreak
- Proposed cannister location
- Proposed fire tank location
- Emergency access
- Connection to Water Corporation main access point
- Stock tank
- Land title lot boundaries
- Remnant vegetation
- Dam
- Other exclusions
- Two or more lanes sealed road
- Unsealed road
- Rail corridor

30ha (or less) compartments will be established in the proposed planting areas. Planting areas will have twin rows of native hardwood species with a wide inter-row (~20m). Approximately N/S direction. Other firebreak installation: 20m boundary, 10m compartment and 30m powerline. A Hazard Separation Zone (HSZ) for habitable buildings min. 100m and 50m for non-habitable structures.

0 0.5 1
Kilometers

Scale: 1:25,000

Spatial Reference

Map Units: Degree

Datum: GDA2020

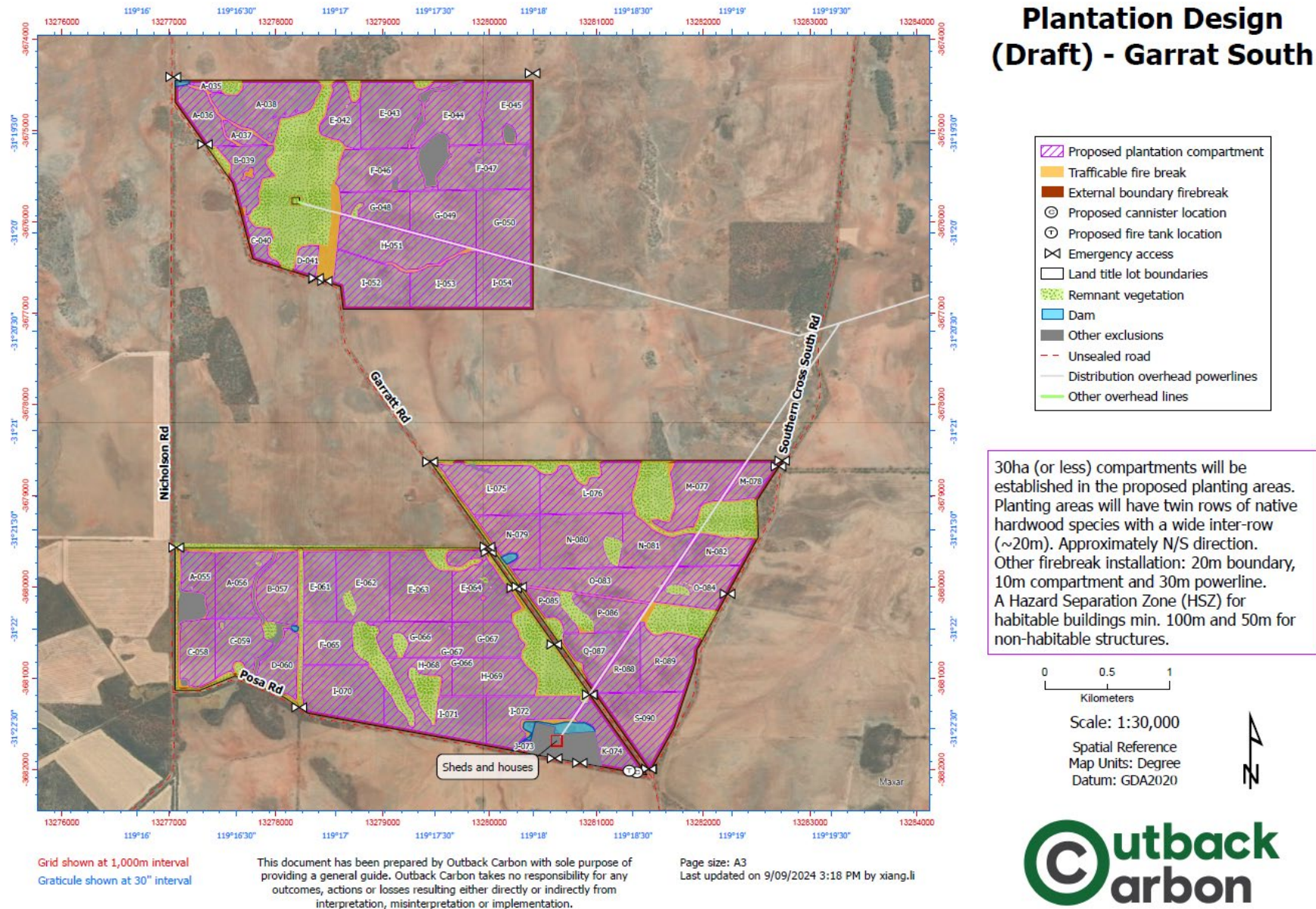


Grid shown at 1,000m interval
Graticule shown at 30" interval

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Plantation Design
(Draft) - Garrat South



APPENDIX E

Compartment Sizes (Draft)

Outback Carbon Proposed Plantation Designs September 2024

Marafioti Farm

Marafioti North

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
608	202767	1564	225	406.6	I		026	22.5
608					I		027	20.0
608					I	60.3	028	17.8
608					J		029	21.5
608					J		030	29.5
608					J	76.5	031	25.5
608					K		032	27.4
608					K		033	17.0
608					K	66.4	034	22.0
608					L		035	27.0
608					L		036	25.2
608					L	74.0	037	21.7
					Sum	277.1		277.1
609	202767	1564	225	395.5	E		016	29.1
609					E		017	29.8
609					E	87.6	018	28.7
609					F		019	28.3
609					F		020	29.1
609					F	86.0	021	28.5
609					G		022	24.6
609					G	47.4	023	22.7
609					H		024	28.2
609					H	55.2	025	27.0
					Sum	276.1		276.1
706	202780	1369	500	277.4	A		001	21.1
706					A		002	23.9
706					A	64.5	003	19.6
706					B		004	23.7
706					B		005	26.8
706					B	72.4	006	21.9
706					C		007	23.9
706					C		008	26.4

706					C	66.1	009	15.8
706					D		010	16.1
706					D		011	22.1
706					D	58.8	012	20.6
					<i>Sum</i>	261.8		261.8
1483	180038	1352	358	20.1	D		013	16.1
1483					D		014	22.1
1483					D		015	20.6
					<i>Sum</i>	58.8		58.8
			Total	1099.6		873.8		873.8

Marafioti Central

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
3	30502	2229	749	405.5	P		077	3.6
3					P		078	4.1
3					P		079	25.2
3					P		080	25.9
3					P	83.8	081	25.0
3					Q		082	22.5
3					Q		083	25.9
3					Q	74.1	084	25.6
3					R		085	29.6
3					R		086	28.6
3					R	84.2	087	26.0
3					S		088	9.8
3					S	25.2	089	15.4
3					T		090	16.5
3					T	33.5	091	17.0
					<i>Sum</i>	300.8		300.8
597	202742	2229	749	415.6	U		092	2.5
597					U		095	21.9
597					U		093	2.8
597					U		096	20.9
597					U		097	23.1
597					U	73.5	094	2.3

597					V		098	27.0
597					V		099	29.0
597					V	85.2	100	29.3
597					W		101	25.8
597					W		102	26.8
597					W	78.9	103	26.3
597					X		104	24.9
597					X	50.5	105	25.6
597					Y		106	21.6
597					Y	43.5	107	21.9
					Sum	331.6		331.6
607	202767	2229	749	415.6	F		058	17.6
607					F		056	1.0
607					F		059	19.3
607					F	39.2	057	1.4
607					G		060	18.5
607					G	34.7	061	16.2
607					H	29.7	062	29.7
607					I		063	26.1
607					I	44.5	064	18.4
607					J		065	1.4
607					J		067	18.7
607					J		066	1.2
607					J	39.1	068	17.9
607					K		069	17.3
607					K	35.1	070	17.7
607					L		071	19.4
607					L	37.3	072	18.0
607					M		073	18.0
607					M	33.1	074	15.0
607					N	20.1	076	20.1
607					O	4.3	075	4.3
					Sum	317.2		317.2
610	202767	2229	749	405.0	A		041	28.4
610					A		038	2.1
610					A		039	2.8
610					A		042	26.3
610					A		043	25.4
610					A	87.8	040	2.8

610					B		044	20.0
610					B		045	23.5
610					B	67.7	046	24.2
610					C		047	14.0
610					C		048	24.1
610					C	60.0	049	22.0
610					D		050	15.2
610					D		051	13.9
610					D	41.3	052	12.1
610					E		053	26.9
610					E		054	28.4
610					E	79.3	055	24.0
					Sum	336.1		336.1
			Total	1641.7		1285.8		1285.8

Marafioti South

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Comp	Area (ha)
700	202779	319	64A	464.2	AA	18.4	164	18.4
700					AB	25.6	165	25.6
700					R		147	19.8
700					R	38.3	148	18.5
700					S	19.3	149	19.3
700					T		150	20.1
700					T	37.2	151	17.1
700					U	18.9	152	18.9
700					V		153	19.2
700					V		154	18.9
700					V	55.6	155	17.5
700					W		156	16.7
700					W		157	19.0
700					W	51.6	158	15.9
700					X		160	23.3
700					X	49.1	159	25.8
700					Y		162	21.3
700					Y	35.5	161	14.2
700					Z	9.4	163	9.4
					Sum	358.8		358.8

701	202779	319	64A	492.8	I		127	24.6
701					I		128	27.1
701					I	73.4	129	21.7
701					J		130	20.6
701					J		131	23.6
701					J	63.6	132	19.3
701					K		133	24.2
701					K		134	27.8
701					K	71.6	135	19.6
701					L		136	20.9
701					L	38.4	137	17.5
701					M		138	15.1
701					M	42.0	139	26.9
701					N		140	12.2
701					N	31.6	141	19.4
701					O		142	28.8
701					O	51.8	143	23.0
701					P		146	4.8
701					P	26.4	144	21.6
701					Q	26.1	145	26.1
					<i>Sum</i>	<i>424.8</i>		<i>424.8</i>
702	202779	319	65A	451.5	A		108	19.5
702					A	38.8	109	19.3
702					B		110	22.9
702					B	43.4	111	20.5
702					C		112	15.1
702					C	28.4	113	13.3
702					D	22.0	114	22.0
702					E		115	26.6
702					E		116	22.6
702					E	70.5	117	21.3
702					F		118	31.3
702					F		119	25.5
702					F	80.5	120	23.7
702					G		121	23.2
702					G		122	17.5
702					G	56.8	123	16.0
702					H		124	21.4
702					H		125	20.5

702					H	61.3	126	19.4
					<i>Sum</i>	<i>401.7</i>		<i>401.7</i>
			Total	1408.5		1185.4		1185.4

Perilya Farm**Perilya West/Cairns Road**

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
587	202740	1694	287	404.8	A		001	29.5
					A		002	29.6
					A		003	21.8
					A		004	15.5
					A		005	18.6
					A		006	26.0
					A		007	27.0
					A	190.3	008	22.4
					B		009	26.9
					B		010	26.7
					B		011	21.4
					B		012	14.1
					B		013	18.1
					B		014	25.2
					B		015	24.6
					B	178.7	016	21.6
					<i>Sum</i>	<i>369.0</i>		<i>369.0</i>
2	31133	2524	470	401.1	C		017	17.7
					C		018	20.0
					C		019	21.1
					C		020	28.5
					C		021	9.7
					C	122.7	022	25.7
					D		023	15.3
					D		024	17.2
					D		025	18.7
					D		026	26.2
					D		027	26.2
					D	130.3	028	26.7

					E		029	12.8
					E		030	14.4
					E		031	16.1
					E		032	23.0
					E		033	22.4
					E	114.3	034	25.7
					Sum	367.3		367.3
586	202740	1238	295	404.6	F		035	20.6
					F		036	21.7
					F		037	22.0
					F	87.3	038	23.0
					G		039	21.4
					G		040	23.5
					G		041	22.4
					G	92.3	042	25.0
					H		043	21.0
					H		044	23.1
					H		045	23.0
					H	91.7	046	24.6
					I		047	23.9
					I		048	25.4
					I		049	25.6
					I	103.0	050	28.0
					Sum	374.2		374.2
1	31133	2524	469	551.7	J	13.8	051	13.8
					K	12.1	052	12.1
					L	22.2	053	22.2
					M	18.6	054	18.6
					N	14.5	055	14.5
					O		056	22.5
					O		057	15.1
					O	51.2	058	13.5
					P	7.6	059	7.6
					Q	10.5	060	10.5
					R		061	26.5
					R	51.4	062	24.9
					S		063	18.7
					S	34.8	064	16.1
					T		065	10.9

					T		066	29.2
					T	46.6	067	6.5
					U		068	17.4
					U	32.6	069	15.2
					V		070	26.0
					V		071	15.6
					V	61.3	072	19.6
					W	23.3	073	23.3
					X		074	26.1
					X		075	23.0
					X	61.5	076	12.4
					<i>Sum</i>	461.8		461.8
			Total	1762.2		1572.3		1572.3

Perilya Central

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
577	202727	1992	315	404.7	T	18.0	180	18.0
577					U		186	26.6
577					U	36.3	187	9.7
577					V		193	26.2
577					V		194	17.5
577					V	62.8	195	19.1
577					W		196	25.0
577					W		197	22.1
577					W	73.6	198	26.5
577					X		199	25.6
577					X	44.0	200	18.4
577					Y		201	11.2
577					Y	37.6	202	26.4
577					Z		203	26.8
577					Z	41.9	204	15.1
					<i>Sum</i>	314.2		314.2
578	202727	1923	536	404.7	T		175	20.3
578					T		176	24.7
578					T		177	27.0
578					T		178	26.6
578					T	122.6	179	23.9

578					U		181	22.3
578					U		182	27.0
578					U		183	29.5
578					U		184	29.5
578					U	135.3	185	27.1
578					V		188	22.0
578					V		189	26.5
578					V		190	29.0
578					V		191	28.9
578					V	132.8	192	26.3
					Sum	390.7		390.7
579	202727	1336	603	404.5	P		153	15.8
579					P		154	27.8
579					P		155	24.7
579					P	97.0	156	28.8
579					Q		161	14.4
579					Q		162	24.9
579					Q		163	18.6
579					Q	87.5	164	29.6
579					R		169	15.3
579					R		170	26.4
579					R	56.8	171	15.1
579					S		172	17.1
579					S		173	27.5
579					S	59.9	174	15.4
					Sum	301.1		301.1
580	202727	1992	316	404.7	P		157	26.2
580					P		158	28.6
580					P		159	21.6
580					P	95.6	160	19.2
580					Q		165	22.1
580					Q		166	29.4
580					Q		167	25.6
580					Q	99.6	168	22.6
					Sum	195.3		195.3
581	202727	1992	316	405.0	D		089	22.1
581					D		090	24.4
581					D	74.1	091	27.6
581					E		098	13.7

581					E		099	29.6
581					E	72.8	100	29.6
581					F		105	29.1
581					F	51.6	106	22.5
581					G		111	28.7
581					G	47.0	112	18.2
					Sum	245.5		245.5
582	202740	2017	658	453.5	D		086	30.0
582					D		087	22.5
582					D	72.2	088	19.6
582					E		092	29.3
582					E		093	29.3
582					E		094	25.1
582					E		095	20.8
582					E		096	20.8
582					E	143.9	097	18.6
582					F		101	26.6
582					F		102	13.1
582					F		103	27.8
582					F	95.4	104	27.9
582					G		107	28.9
582					G		108	19.1
582					G		109	18.3
582					G	73.0	110	6.6
					Sum	384.4		384.4
583	202740	2017	658	260.0	A		077	11.5
583					A		078	13.1
583					A		079	19.3
583					A	66.4	080	22.5
583					B		081	22.1
583					B	43.0	082	20.8
583					C		083	17.5
583					C		084	28.2
583					C	75.6	085	29.9
					Sum	185.0		185.0
584	202740	1921	498	425.1	H		113	26.3
584					H		114	24.9
584					H		115	20.1
584					H		116	20.4

584					H		117	20.3
584					H		118	26.9
584					H	167.9	119	29.1
584					I		120	18.7
584					I		121	17.5
584					I		122	3.7
584					I		123	24.3
584					I	80.5	124	16.3
584					J		125	27.1
584					J		126	14.5
584					J		127	24.8
584					J		128	24.9
584					J	121.2	129	30.0
					<i>Sum</i>	369.6		369.6
1274	152516	1921	500	563.4	K		130	25.1
1274					K		131	11.4
1274					K		132	13.5
1274					K	66.2	133	16.3
1274					L		134	6.2
1274					L		135	27.3
1274					L		136	23.0
1274					L	83.6	137	27.1
1274					M		138	28.7
1274					M		139	27.5
1274					M		140	22.9
1274					M	106.0	141	26.9
1274					N		142	16.9
1274					N		143	18.0
1274					N		144	27.0
1274					N		145	22.5
1274					N	110.6	146	26.3
1274					O		147	16.3
1274					O		148	17.1
1274					O		149	25.6
1274					O		150	21.0
1274					O	100.4	152	20.6
					<i>Sum</i>	466.7		466.7
			Tota I	3725.7		2852.6		2852.6

Perilya South

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
564	202715	1923	533	404.6	K		263	29.1
564					K		260	17.2
564					K		262	23.5
564					K		264	20.8
564					K	112.9	261	22.3
564					L		267	30.0
564					L		269	27.6
564					L		265	28.6
564					L	105.9	268	19.7
564					M		271	21.5
564					M	39.5	270	18.0
					<i>Sum</i>	<i>258.2</i>		<i>258.2</i>
565	202715	1923	534	404.6			246	29.1
565					H		247	23.2
565					H		248	28.4
565					H		249	29.9
565					H	132.6	250	22.1
565					I		254	27.4
565					I		251	25.6
565					I		252	20.9
565					I		253	25.5
565					I	118.8	255	19.4
565					J		258	28.7
565					J		256	22.3
565					J		257	26.8
565					J	97.8	259	19.9
565					L	27.7	255	27.7
					<i>Sum</i>	<i>376.9</i>		<i>376.9</i>
567	202721	2687	796	404.8	D		225	5.3
567					D		223	29.1
567					D		224	10.7
567					D		222	17.2
567					D	86.9	221	24.6
567					E		232	28.8

567					E		230	24.1
567					E	69.9	231	17.0
567					F		238	28.2
567					F		239	29.5
567					F		240	28.9
567					F	116.4	241	29.9
567					G		245	27.1
567					G	53.8	244	26.6
					Sum	327.0		327.0
569	202721	2687	796	404.8	A		208	27.5
569					A		205	12.9
569					A		206	29.9
569					A		207	25.0
569					A	122.6	209	27.3
569					B		212	19.7
569					B		210	22.0
569					B		211	17.9
569					B	79.0	213	19.3
569					C		217	2.2
569					C		215	27.8
569					C		214	6.8
569					C	65.3	216	28.6
					Sum	266.9		266.9
570	202721	2687	796	404.0	D		220	25.4
570					D		218	29.5
570					D	77.9	219	23.0
570					E		228	25.7
570					E		226	24.8
570					E		227	25.7
570					E	97.8	229	21.5
570					F		236	28.7
570					F		233	27.4
570					F		234	27.4
570					F		235	28.7
570					F	129.9	237	17.7
570					G		242	26.5
570					G	45.0	243	18.5
					Sum	350.6		350.6
			Total	2022.8		1579.6		1579.6

Avalon Farm**Avalon North**

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
1114	152389	2149	479	402.6	G		016	24.2
1114					G		017	1.4
1114					G		019	11.8
1114					G		018	7.8
1114					G		014	12.5
1114					G	77.9	015	20.2
1114					I		026	24.2
1114					I		027	12.9
1114					I		024	10.2
1114					I		025	18.8
1114					I	67.5	023	1.5
1114					L	5.0	032	5.0
1114					M	22.2	033	22.2
1114					N	19.5	034	19.5
1114					O	12.9	035	12.9
1114					Q	25.0	038	25.0
1114					R		039	16.8
1114					R	30.8	040	14.0
					<i>Sum</i>	<i>260.9</i>		<i>260.9</i>
1260	152455	2149	478	362.3	V		047	16.6
1260					V		046	22.9
1260					V		049	20.8
1260					V	74.4	048	14.2
1260					W		051	22.6
1260					W		050	20.8
1260					W		053	26.7
1260					W	87.4	052	17.4
1260					X		055	20.5
1260					X		054	18.9
1260					X		057	22.4
1260					X	77.4	056	15.6
1260					Y		059	18.8
1260					Y		058	12.6

1260					Y		061	21.2
1260					Y	68.8	060	16.2
					<i>Sum</i>	<i>308.0</i>		<i>308.0</i>
1270	152458	2149	480	485.1	A	4.9	001	4.9
1270					B	8.3	002	8.3
1270					C	16.5	003	16.5
1270					D		006	3.4
1270					D		005	24.1
1270					D	48.5	004	20.9
1270					E		009	9.1
1270					E		008	18.5
1270					E	37.9	007	10.3
1270					F		012	21.3
1270					F		010	9.0
1270					F		013	6.7
1270					F	47.5	011	10.6
1270					H		022	29.9
1270					H		021	23.2
1270					H	65.5	020	12.4
1270					J		029	28.7
1270					J	40.4	028	11.6
1270					K		031	28.2
1270					K	37.5	030	9.3
1270					P		036	19.9
1270					P	23.1	037	3.1
					<i>Sum</i>	<i>330.0</i>		<i>330.0</i>
1297	152626	2149	482	122.1	S		042	15.5
1297					S	20.6	041	5.1
1297					T		043	18.8
1297					T	27.3	044	8.5
1297					U	21.4	045	21.4
					<i>Sum</i>	<i>69.3</i>		<i>69.3</i>
			Total	1372.0		968.2		968.2

Avalon Central/Newbury

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
3	62102	2714	58	402.0	I		082	20.7

3					I		083	21.1
3					I		084	26.8
3					I	98.2	085	29.6
3					J		086	28.3
3					J		087	21.3
3					J		088	29.9
3					J	108.0	089	28.5
3					K		090	29.1
3					K		091	27.6
3					K	86.3	092	29.6
3					L		093	21.1
3					L	44.6	094	23.5
					Sum	337.1		337.1
435	202686	2149	481	12.5	Y	6.3	133	6.3
					Sum	6.3		6.3
436	202686	2149	481	367.3	W		124	26.7
436					W	50.6	125	23.9
436					X		127	23.8
436					X	43.8	128	20.1
436					Y		130	26.4
436					Y		131	24.5
436					Y	69.3	132	18.4
436					Z		134	25.9
436					Z	52.7	135	26.8
436					AA	24.4	136	24.4
436					AB	18.0	137	18.0
					Sum	258.8		258.8
438	202686	2149	481	292.3	S		110	0.6
438					S	22.5	111	21.8
438					T		112	2.3
438					T		113	27.8
438					T		114	25.1
438					T		115	12.8
438					T	97.4	116	29.4
438					U		117	1.5
438					U		118	29.2
438					U	43.7	119	13.0
438					V		120	0.9
438					V		121	2.8

438					V		122	23.6
438					V	40.5	123	13.3
438					X	15.2	126	15.2
438					Y	9.3	129	9.3
					Sum	228.7		228.7
440	202692	1412	735	402.5	A		062	22.9
440					A		063	25.8
440					A	65.9	064	17.2
440					B		065	22.3
440					B		066	24.6
440					B	62.1	067	15.2
440					C		068	16.5
440					C		069	17.3
440					C	44.9	070	11.1
440					G		074	20.8
440					G		075	18.9
440					G		076	18.1
440					G		077	24.2
440					G	101.4	078	19.4
440					H		079	27.3
440					H		080	26.5
440					H	74.1	081	20.3
					Sum	348.3		348.3
442	202692	1420	269	404.5	M		095	15.6
442					M		096	25.6
442					M	64.1	097	22.9
442					N		098	28.7
442					N	56.5	099	27.8
442					O		100	15.0
442					O		101	25.4
442					O	63.3	102	22.9
442					P		103	29.7
442					P	48.5	104	18.8
442					Q		105	15.2
442					Q		106	25.3
442					Q	63.2	107	22.7
442					R		108	28.5
442					R	31.0	109	2.5
					Sum	326.6		326.6

1260	152455	2149	478	90.1	D	22.4	071	22.4
1260					E	24.8	072	24.8
1260					F	21.3	073	21.3
					<i>Sum</i>	68.5		68.5
			Total	1971.2		1574.3		1574.3

Avalon South/Avalon Homestead

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
435					A	5.7	143	5.7
435	202686	2149	481	389.0	E	17.4	151	17.4
435					F		154	22.2
435					F	33.7	153	11.5
435					G	19.0	155	19.0
435					H	27.3	156	27.3
435					J		161	28.0
435					J		159	30.0
435					J	87.6	160	29.5
435					L		166	28.4
435					L		164	11.0
435					L	56.3	165	16.8
					<i>Sum</i>	246.9		246.9
436	202686	2149	481	31.8	A	22.3	142	22.3
436					F	2.2	152	2.2
					<i>Sum</i>	24.5		24.5
437	202686	2149	481	404.8	B	16.2	145	16.2
437					C		147	21.6
437					C	38.7	146	17.1
437					D		149	28.9
437					D		148	29.9
437					D	74.7	150	15.9
437					I		158	29.4
437					I	58.3	157	28.9
437					K		162	28.6
437					K	55.3	163	26.7
					<i>Sum</i>	243.1		243.1
438	202686	2149	481	103.7	A		140	27.6
438					A		138	3.7

438					A		144	1.4
438					A		139	26.6
438					A	79.6	141	20.3
					<i>Sum</i>	79.6		79.6
			Total	929.3		594.1		594.1

Garrat Farm**Garrat North**

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
3	89945	2023	647	68.7	A	10.3	003	10.3
3					B	25.3	013	25.3
3					D	16.4	024	16.4
					<i>Sum</i>	51.9		51.9
34	144527	2138	310	127.9	A		007	24.9
34					A	41.3	008	16.4
34					C		018	2.3
34					C	18.8	019	16.4
34					D	27.6	028	27.6
					<i>Sum</i>	87.7		87.7
35	144526	2138	310	128.4	A		009	19.3
35					A	31.6	010	12.2
35					C		020	24.0
35					C	52.2	021	28.3
35					D		029	13.5
35					D	34.7	030	21.2
					<i>Sum</i>	118.5		118.5
40	89827	2023	647	128.7	A		001	26.6
40					A	37.9	002	11.3
40					B		011	22.6
40					B	43.1	012	20.5
40					D		022	1.8
40					D	4.1	023	2.3
					<i>Sum</i>	85.1		85.1
42	89828	2136	801	71.6	A		005	16.3
42					A	32.3	006	16.0
42					B		016	17.8
42					B	35.6	017	17.8

					<i>Sum</i>	67.9		67.9
43	89829	2136	801	127.9	A	29.4	004	29.4
43					B		014	24.8
43					B	47.1	015	22.3
43					D		025	15.7
43					D	30.1	026	14.4
					<i>Sum</i>	106.7		106.7
100	97065	2154	693	137.5	E	14.7	031	14.7
100					F	27.8	032	27.8
100					G	30.9	033	30.9
100					H	17.8	034	17.8
					<i>Sum</i>	91.2		91.2
269	152463	2136	801	24.3	D	22.4	027	22.4
					<i>Sum</i>	22.4		22.4
			Total	815.1		631.4		631.4

Garrat Central

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
380	203769	1936	932	502.0	A		038	27.7
380					A		035	1.4
380					A		036	11.9
380					A	44.5	037	3.6
380					B	14.2	039	14.2
380					C	4.8	040	4.8
380					D	4.0	041	4.0
380					E		043	27.9
380					E		044	24.5
380					E		045	19.5
380					E	85.2	042	13.5
380					F		047	28.1
380					F	53.3	046	25.1
380					G		049	23.7
380					G		050	26.5
380					G	64.4	048	14.2
380					H	27.0	051	27.0
380					I		052	24.2
380					I		054	19.7

380					I	66.0	053	22.1
			Total	502.0		363.5		363.5

Garrat South

Lot	Plan	Volume	Folio	Total Area of Lot (ha)	Section	Section Area (ha)	Compartment	Compartment Area (ha)
2					L		075	30.30
2					L	60.23	076	29.92
2					M		077	22.60
2					M	31.11	078	8.510
2					N		079	17.64
2					N		080	29.37
2					N		081	18.47
2					N	77.96	082	12.48
2					O		083	26.94
2	67071	2827	475	411.1	O	16.8	084	16.86
2					P		085	6.74
2					P	19.97	086	13.23
2					Q	13.4	087	13.42
2					R		088	12.22
2					R	34.6	089	22.39
2					S	24.6	090	24.59
					<i>Sum</i>	<i>109.469</i>		<i>109.46</i>
385	203769	2827	473	500.093 2	A		055	11.64
385					A	32.27	056	20.63
385					B	18.33	057	18.33
385					C		058	16.43
385					C	34.17	059	17.74
385					D	13.00	060	13.00
385					E		061	16.80
385					E		062	26.21
385					E		063	29.07
385					E	97.47	064	25.38
385					F	16.14	065	16.14
385					G		066	16.56
385					G	33.99	067	17.43
385					H		068	10.66

385					H	33.19	069	22.54
385					I		070	30.08
385					I		071	23.19
385					I	75.40	072	22.12
385					J	0.468	073	0.47
385					K	11.56	074	11.56
					<i>Sum</i>	366.02		366.02
			Total	911.19		475.48		475.48

APPENDIX F

Bushfire Management Plans (2024)

1. Marafioti BFMP
2. Cairns Road and Perilya BFMP
3. Avalon North, Newbury and Avalon South BFMP
4. Garrat and South Garrat BFMP