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Councillor and CEO Attendance at Events Policy

CEO



11 May 2022

This policy was adopted by Council to set governing principles in place that align with the Strategic Community Plan 2040: Focus Area Performance: Outcome PF.1: Responsible planning and ownership of outcomes.

Objectives

The provision of tickets for Councillors and the CEO to attend events is dealt with in a transparent manner, that mitigates any actual or perceived conflicts of interest, and actively considers the purpose of and benefits to the community from Councillors and the CEO attending events.

Application

This policy applies to Councillors and the Chief Executive Officer (CEO) of the Shire of Augusta Margaret River.

Definitions

A **'gift'** is defined under section 5.57 *Local Government Act (1995)* (LGA) as a conferral of a financial benefit (including a disposition of property) made by one person in favour of another person unless adequate consideration in money or money's worth passes from the person whose favour the conferral is made to the person who makes the conferral. It includes any contributions to travel. A door prize or raffle prize received by chance is not considered a gift.

A **ticket** includes an admission ticket to an event, or an invitation to attend an event, or a complimentary registration to an event, that is offered by a third party.

Shire sponsored major event is an event that has received Major Events Grant Funding in accordance with the Shire's Community, Economic, Environmental and Events Funding Policy.

Policy

This Policy addresses the attendance by Councillors and the CEO at events, including concerts, functions, conferences, cultural, sporting or community events, whether the tickets are free of charge, discounted, part of a funding agreement, or paid for by the Shire.

The community expects high standards of ethical behaviour and integrity in decision-making by Councillors and the CEO. Attendance at events by Councillors and the CEO can benefit the

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community and Shire, however the gifting of tickets can influence (or be perceived to influence) decision-making and create a conflict of interest between the donor and recipient.

Acceptance of a gifted ticket in accordance with this policy excludes a Councillor or the CEO from the requirement to disclose an interest if the gifted ticket is above \$300 and the donor has a matter before Council under section 5.62(1A) LGA. Any gift received that is less than \$300 does not require conflict of interest disclosure (r. 20A LG (*Administration*) Regulations 1996).

1. Provision of tickets to events

- 1.1. A ticket to an event must be provided to the CEO or Councillor in their capacity as the CEO or Councillor.
- 1.2. Any ticket provided to the CEO or Councillor to attend an event in their personal capacity is not captured by this Policy.
- 1.3. To assist in determining if the ticket is received in the capacity as the CEO or Councillor, the following question can be asked:

Would the ticket to the event have been given to me if I was not the CEO or a Councillor? If the answer is no, then the ticket was received in your capacity as the CEO or a Councillor.

2. Attendance at pre-approved events

- 2.1 Council approves attendance by the CEO and Councillors at the following events (pre-approved events):
 - a) Shire organised events.
 - b) Events that are a free event to members of the public.
 - b)c) Shire sponsored major events*.
 - c)d) Events where the CEO or Councillor is a representative on an external committee or organisation and the CEO or Councillor is in attendance for the purposes of fulfilling their role on the external committee or organisation.
 - d)e) Where the ticket to an event is from a specified entity under r 20B LG (*Admin*) Regulations 1996, which includes:
 - o Western Australian Local Government Association (WALGA);
 - o Australian Local Government Association (ALGA);
 - o Local Government Professional Australia WA (LG Pro);
 - o Department of a Public Service;
 - o Commonwealth, State or Territory government department;
 - o local government or regional local government.

* Only includes attendance at the launch/opening event, or where there is no launch/opening event, an alternative scheduled event in the program.

- 2.1.1 Tickets offered to attend Shire sponsored major events will be allocated on a priority basis to the Shire President and CEO. If the Shire President cannot attend, then the Deputy President may attend in his or her place. If further tickets are available, they will then be allocated to Councillors, via method of drawing names out of a hat.

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- 2.2 Council approves attendance by the Shire President and the CEO at the following events (pre-approved events):
- a) events held by local community or sporting groups
 - b) events held by not for profit organisations
 - c) events run by schools and universities within the Shire
 - d) local community cultural events / festivals / art exhibitions
 - e) events held by industry associations relevant to the local area
 - f) Shire funded events (excluding Shire sponsored major events)
 - g) Events organised by the embassy or consulate of another nation

If the Shire President cannot attend, then the Deputy President may attend, or any Councillor delegated by the Shire President to attend in his or her place.

- 2.3 Council approves attendance by the Shire President at events (pre-approved events) where the Shire President is performing any of the following functions:
- a) presenting at the event
 - b) participating as a member in a panel
 - c) opening or launching an event or facility
 - d) presenting or accepting awards or prizes to others on behalf of the Shire
 - e) or any other civic or ceremonial duty on behalf of the Shire

If the Shire President is unable to attend, then the Deputy President may attend, or any Councillor delegated by the Shire President to attend in his or her place.

- 2.4 Council approves attendance by the CEO at events (pre-approved events) where the CEO is performing any of the following functions:
- a) presenting at an event
 - b) participating as a member in a panel
 - c) accepting an award on behalf of the Shire

- 2.5 In relation to attendance at a pre-approved event in accordance with parts 2.1 – 2.4 above, the following applies in respect to payment of tickets:
- a) Where the ticket is offered free of charge, and tickets are also offered to members of the public free of charge, the ticket may be accepted, (ticket is not considered a gift).
 - b) Where the ticket is offered free of charge, but a member of the public is required to pay, the ticket is a gift. The ticket may be accepted (see part 5 in relation to any gift disclosures required).
 - c) Where the ticket is offered, and a benefit will be received, such as dinner and beverages, but there is no purchase price for the ticket. The ticket may be accepted (see part 5 in relation to any gift disclosures required).
 - d) Where the Shire President or the CEO performs a function at the event, providing adequate consideration, or partial consideration for the ticket, the ticket may be accepted, (see part 5 in relation to any gift disclosures required where there was partial consideration for the ticket).
 - e) Where the ticket is offered at a discounted rate, the ticket may be paid for by the Shire administration if adequate funding is available in the budget (see part 5 in relation to any gift disclosures required for the discount received).
 - f) Where the ticket requires payment: the ticket may be paid for by Shire administration ; or

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- g) Councillor may pay for the ticket and request a reimbursement of the expense in accordance with the Councillor Entitlements Policy (prior CEO approval is required), if adequate funding is available in the budget.
- 2.6 In relation to attendance at pre-approved events in accordance with parts 2.1-2.4 above, the following applies in respect to payment of expenses associated with attendance:
- a) The Shire may pay reasonable expenses associated with attendance by the CEO or Councillor, such as travel and accommodation expenses, within the expenditure limitations prescribed in the current Determination of the Salaries and Allowances Tribunal on Local Government Chief Executive Officers and Elected Members under the *Salaries and Allowances Act 1975*: section 7B (*'Determination'*)), if adequate funds are available in the allocated budget. Accommodation expenses will only be paid for events outside of the Shire.
 - b) The Councillor may seek reimbursement of reasonable expenses associated with attendance, (such as travel and accommodation expenses), in accordance with the Councillor Entitlements Policy and *Determination*, if adequate funding is available in the budget. Accommodation expenses will only be reimbursed for events outside of the Shire.
- 2.7 If the CEO or Councillor is invited to attend an event that is not a pre-approved event under part 2.1-2.4 above, or are not authorised to attend the event under part 2.1-2.4 above, then:
- a) the CEO or Councillor can request approval to attend the event in accordance with part 3 below; or
 - b) pay for the ticket to attend the event at own expense.

3. Attendance at events requiring approval

3.1 Attendance by a Councillor or the CEO at an event which is not a pre-approved event under parts 2.1-2.4 above, must be determined by Council in the case of a Councillor's attendance, or the Shire President in the case of the CEO's attendance at the event.

3.2 Key factors for consideration include:

- a) Who is providing the ticket to the event.
- b) The location of the event in relation to the Shire.
- c) The role of the Councillor or CEO when attending the event (participant, observer, presenter) and the value of their contribution.
- d) The benefit to the community in the Councillor or CEO attending the event.
- e) The benefit to the organisation in the Councillor or CEO attending event.
- f) Alignment to the Shire's strategic objectives.
- g) Whether the event is funded by the Shire.
- h) The number of invitations / tickets received.
- i) The cost to attend the event (if any) and any other expenses such as travel and accommodation.
- j) Whether there is a personal benefit to the CEO or Councillor in attending the event, for example if food and alcohol included, or if the benefit is primarily for entertainment.
- k) The likely community perception of the CEO or Councillor attending the event.

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- l) Whether the ticket can be paid for to avoid the acceptance of a gift and risk of influenced (or perception of influenced) decision-making.

3.3 Approval is required in respect of:

- a) Attendance at the event by a Councillor or the CEO.
- b) Whether the ticket is accepted as a gift, or is paid for by the Shire.
- c) Whether the Shire pays or contributes to associated expenses such as travel or accommodation.

4. Partners

4.1 Where attendance to an event is approved under parts 2 or 3 of this Policy, the following applies in respect of tickets for partners to attend:

- a) The CEO or Councillor may accept a ticket for their partner to attend the event if the ticket is offered free of charge and tickets are also offered to members of the public free of charge, or if it is a Shire organised event (ticket is not considered a gift).
- b) The CEO or Councillor may accept a ticket for their partner to attend an event where a benefit is received, such as dinner and beverages, but there is no purchase price for the ticket, and the ticket for partner cannot be purchased by the CEO or Councillor (see part 5 in relation to gift disclosures required).
- c) The CEO or Councillor must not accept a gifted or discounted ticket for their partner to attend, where a member of the public is required to pay for a ticket.
- d) The CEO or Councillor can purchase a ticket for their partner to attend the event at own expense.

4.2 The Shire will not pay for, or reimburse the cost of tickets or associated expenses such as travel or accommodation for partners to attend events, however, the CEO or Councillor may purchase travel or accommodation for partner at their own expense.

5. Disclosure requirements relating to tickets accepted as gifts

5.1 Where, in accordance with part 2 and 3 of this Policy, the CEO or Councillor has accepted:

- a) a ticket free of charge where members of the public are required to pay;
- b) a ticket where a benefit is received, such as dinner and beverages, but there is no purchase price for the ticket;
- c) a ticket at a discounted rate; or
- d) a ticket where they have provided partial consideration in money's worth through the performance of a function at the event;

and the value of the benefit received is over \$300 (or is one of a series of gifts received by the same donor in a 12 month period over the value of \$300), the CEO or Councillor is required to make a gift disclosure under the gift provisions s5.87A and 5.87B. The disclosure will be published on the gift register on the Shire's website (s5.89A LGA).

5.2 In accordance with part 4.1(b) above, where a Councillor or the CEO has accepted a ticket for their partner to attend an event where a benefit is received, such as dinner and beverages, but there is no purchase price for the ticket and the ticket for the partner cannot

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be purchased by the CEO or Councillor, then if the total value of the benefit received by the CEO/Councillor and partner is over \$300 (or is one of a series of gifts received by the same donor in a 12 month period over the value of \$300), the CEO/Councillor is required to make a gift disclosure under the gift provisions s5.87A and 5.87B. The disclosure will be published on the gift register on the Shire's website (s5.89A LGA).

5.3 The gift disclosure by a Councillor must be made to the CEO (or Shire President in the case of the CEO disclosing the gift) within 10 days of the Councillor or CEO receiving the ticket, and is to include, under s5.87C LGA:

- a) a description of the gift;
- b) the name and address of the person who gave the gift;
- c) the date on which the gift was received;
- d) the estimated value of the gift at the time it was made; and
- e) the nature of the relationship between the person who made the gift and the person who received it.

5.4 A ticket is excluded from the conflict of interest provisions if attendance to the event has been approved in accordance with this Policy (s5.62(1B) LGA). The Councillor or CEO is not required to complete a disclosure of interest if the donor has a matter before Council.

Relevant legislation

Section 5.90A LGA: Policy for attendance at events

Related documents

Code of Conduct for Councillors, Committee Members and Candidates

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2.0	22/05/22	OM2022/7 4	Full review
2.1	12/10/22	OM2022/1 6	Amendment to clause 2.2: 'events organised by the embassy or consulate of another nation'.

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INTEGRITY AG
& Environment



Development Application – Supporting Information

**Prepared for: Caves Road Margaret
River Pty Ltd, T/A Caves Road Farms**

Integrity Ag and Environment
17/06/2022

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ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023



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1. Introduction

Caves Road Margaret River Pty Ltd ('Caves Road Farms') submitted an Application for Development Approval for Works (not Use) including farm fencing, non-fixed livestock shelters, livestock water lines and livestock feeders that are in part, associated with a small scale rotational outdoor piggery at Lots 201, 202 and 203 at 5103 Caves Road, Cowaramup, WA ('the subject land') to the Shire of Augusta-Margaret River in September 2021. As part of the approval process, the application was referred to several regulatory agencies including:

- Department of Primary Industry and Regional Development (DPIRD)
- Department of Water and Environmental Regulation (DWER)
- Department of Biodiversity Conservation and Attractions (DBCA)

The review resulted in a number of requests for further information and clarification on several aspects of the original submission which were detailed in correspondence from Mr Don Bothwell of the Shire of Augusta Margaret River dated 5 November 2021. This report has been prepared as a response to the requests for further information. Where the information in this report varies from that in the original application, this report is considered the most relevant.

Table 1 provides a summary of the details of the Development Application.

Table 1. Applicant Details

Applicant details	Information
Land details	5103 Caves Road Cowaramup Lot 201,202 and 203 Caves Road Cowaramup
Land area	120.12ha
Shire of Augusta Margaret River Scheme No. 1 – Zoning of Subject Land	Priority Agriculture
Shire of Augusta Margaret River District Scheme No. 1 – Surrounding Areas	North - 'Priority Agriculture' East – 'Priority Agriculture' West – Northern section 'National Parks and Nature Reserves' and southern section 'Leeuwin Naturaliste Ridge Landscape Amenity'. South – Small 'Public Use – Gravel' reserve surrounded by 'Priority Agriculture'.

This document provides additional information requested by the Shire of Augusta Margaret River in correspondence dated 5 November 2021. Table 2 provides a summary of the information requirements and details the section of the report that addresses the information gaps.

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Table 2. Additional information requirements

Agency	Information Required	Section of Report	
DWER	<ul style="list-style-type: none"> • Nutrient balance – including all animals and cropping activities 	Section 5.7 and 5.9	
	<ul style="list-style-type: none"> • Evidence of secure water supply to meet needs of onsite activities 	Appendix H	
	<ul style="list-style-type: none"> • Details relating to mortalities management <ul style="list-style-type: none"> - Site Contours 	Figure 1	
	<ul style="list-style-type: none"> - Seasonal groundwater 	Section 5.5	
	<ul style="list-style-type: none"> - Site drainage works 	Appendix H	
	<ul style="list-style-type: none"> - Soil and nutrient monitoring and reporting 	Section 7.7	
	<ul style="list-style-type: none"> - Separation to groundwater 	Section 5.5 and 5.8	
	<ul style="list-style-type: none"> - Soil capability 	Section 5.4 and Appendix B	
	<ul style="list-style-type: none"> - Floodplain of onsite waterway 	Section 6.2	
	<ul style="list-style-type: none"> - Management of straw/manure 	Section 5.7	
	<ul style="list-style-type: none"> - Rotational regime for the full cycle 	Section 5.3	
	<ul style="list-style-type: none"> - Detailed and labelled map 	Figure 1	
	DPIRD	<ul style="list-style-type: none"> • Areas where pigs are kept are clearly identified on map as well as any reuse areas 	Figure 1
		<ul style="list-style-type: none"> • Details of onsite drainage works 	Appendix H
<ul style="list-style-type: none"> • Groundwater characteristics – including depth to groundwater 		Section 5.5	
<ul style="list-style-type: none"> • Inclusion of piglets in nutrient balance calculations 		Section 5.7	
<ul style="list-style-type: none"> • Recommended minimum separation distance for free range and outdoor bred pigs. 		Section 3.2 and Figure 1	
<ul style="list-style-type: none"> • Details of notification on the Certificate of Title 		Addressed separately	
Shire of Augusta-Margaret River	<ul style="list-style-type: none"> • Scales site plan showing the setback distances to boundaries, separation distances to adjoining properties, water courses 	Figure 1	
	<ul style="list-style-type: none"> • Location of paddocks in relation to the farm shop. 	Figure 1	
	<ul style="list-style-type: none"> • Recladding of the existing shed 	Addressed separately	
	<ul style="list-style-type: none"> • Total nutrient impact from all proposed stock onsite 	Section 5.7 and 5.9	
	<ul style="list-style-type: none"> • Justification for reduced buffer distances with regard to the Shire of Augusta-Margaret River Health Local Law 1999 (Part 5 Division 4 – Piggeries) 	Section 3.2	
	<ul style="list-style-type: none"> • Fly Breeding 	Section 7.3	
	<ul style="list-style-type: none"> • Odour 	Section 7.4	
	DBCA	<ul style="list-style-type: none"> • Boundary fencing 	Section 7.5
		<ul style="list-style-type: none"> • Native Vegetation 	Section 7.6

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Based on the additional information requested and further investigation, an amended site plan has been prepared detailing the proposed rotational outdoor piggery (ROP) and grazing areas onsite. This is included as Figure 1.

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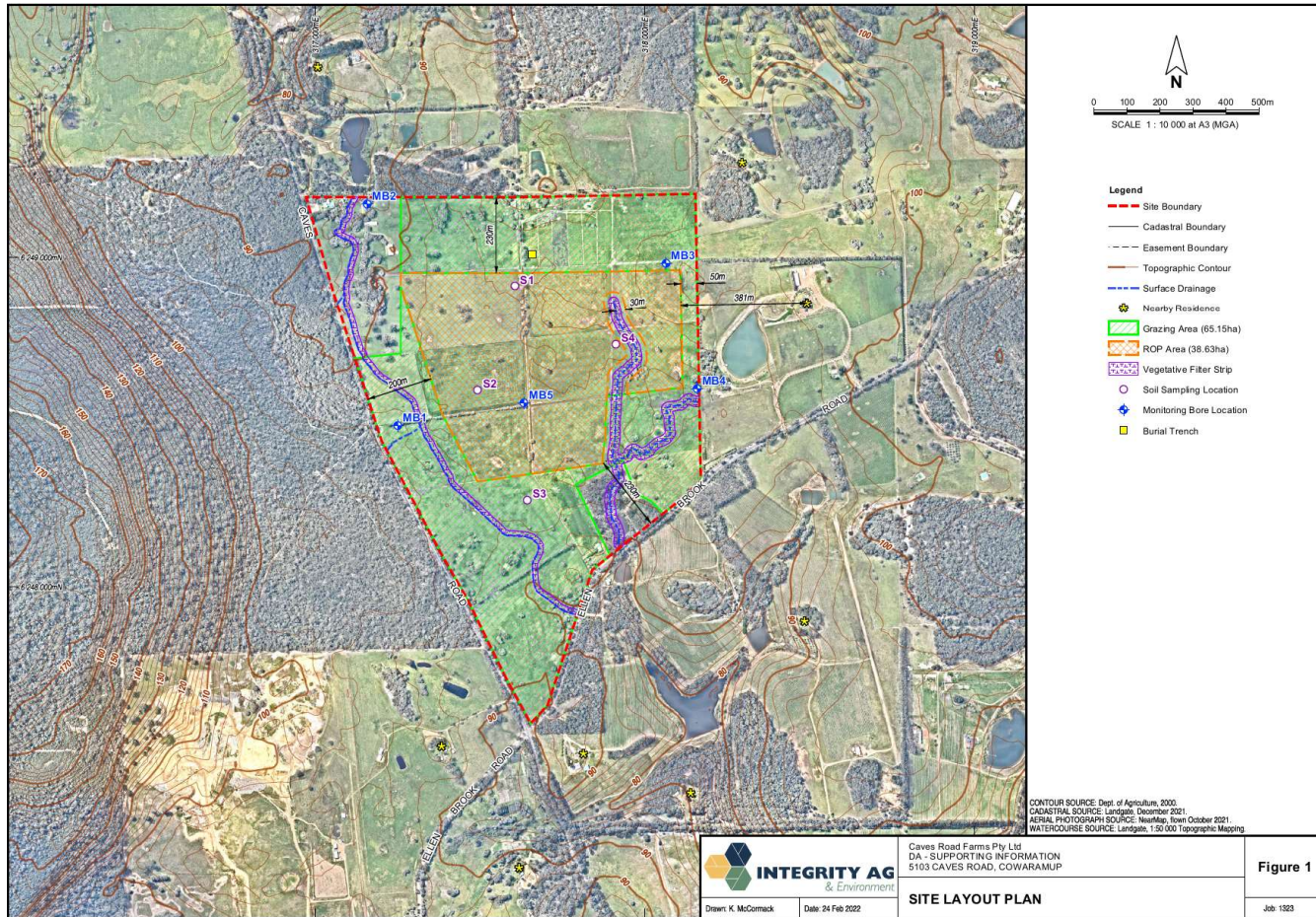


Figure 1. Site Plan



2. Terms of Reference

To ensure accurate terms of reference with regard to the potential environmental impacts from the proposed piggery operation, it is recommended that all assessment be in the standard measure of Standard Pig Units (SPU). In 2018 the DWER produced an *Industry Regulation Fact Sheet Intensive Piggery (DWER)* which clarifies the determination of production/design capacity for a facility. The document states:

In determining the production or design capacity of intensive piggeries, DWER considers the maximum number of pigs within the premises at any one time. The total number of pigs is determined using Standard Pig Units (SPU), as defined in the NEGIP (National Environmental Guidelines for Intensive Pigs).

Although the document refers to intensive piggeries, the statement remains relevant to all piggery applications. The reason for converting pig numbers to SPU is that all emissions and impacts including manure, odour and greenhouse gas production are estimated based on one SPU. Table 3 provides the conversion factors for different classes of pigs, and the estimated pig number and SPU factors associates with a 15 sow farrow to finish operation.

Table 3. SPU conversion factors standard classes of pigs

	Average Weight (kg)	SPU Factor*
Gilts	137.6	1.80
Boars	207.6	1.60
Gestating sows	187.5	1.60
Lactating sows	187.5	2.50
Suckers	4.1	0.10
Weaner	18.4	0.51
Porker	42.5	1.08
Grower	67.5	1.48
Finisher	85.0	1.66

* Source: Pigbal. 4. (Skerman *et al.* 2015) and (Tucker *et al.* 2013)

For a farrow to finish operation the number of pigs is often similar to the number of SPU onsite. Where the operation is breeder only the number of pigs (due to the large number of piglets) can almost be double the number of SPUs.

As such, it is recommended that all planning considerations quantify the number of SPUs onsite rather than the total pig numbers. This will also allow some flexibility in the nature of the herd with respect to normal variations in primary production and allow the operation to be run as a breeder only operation where the weaners are transported off-site for grow out.



3. Planning and Buffer Considerations

3.1 Department of Water and Environmental Regulation (DWER)

An operating license or works approvals is not required as the design capacity of the ROP is less than 500 pigs at any given time, as per the *DWER Industry Regulation Fact Sheet for Intensive Piggeries 2018*.

3.2 Shire of August Margaret River Health Local Law 1999

Part 5 division 4 of the *Shire of Augusta Margaret River Health Local Law 2001* provides guidance on the restriction on establishment of new piggeries, and includes a buffer distance recommendation for new piggeries to townsite boundaries of 5,000m.

The Caves Road Farms site is located 3.4 km from the Gracetown townsite boundary which is a less than the recommended buffer distance. The generic buffer distances provided in the *Health Local Law 1999* are provided for all scales and scopes of piggery developments. As the Caves Road Farms proposal is for a small scale, tourism oriented, low density outdoor rotational piggery the buffer distance recommendations provided in National Environmental Guidelines for Rotational Outdoor Piggeries (Revised) (Tucker et al. 2013) would be a more suitable provision for public amenity. This guideline suggests a 750m buffer between a rotational outdoor piggery and a townsite, which the proposed development satisfactorily achieves.

3.3 Separation Distance Considerations

The National Environmental Guidelines for Rotational Outdoor Piggeries (Revised) (Tucker *et al.* 2013) provides planning and environmental guidance specifically for rotational outdoor piggeries. This document was created due the significantly difference in impacts associated with rotational outdoor pigs compared with conventional intensive pig production. Table 4 provides a summary of the recommended buffer distances and the compliance of the Caves Road Farms application. It should also be noted that rotational outdoor piggeries often house up to 10,000 SPU's at any given time, whereas this application will house 112 SPU's at any given time.

Table 4. National Environmental Guidelines – Recommended Buffers

Buffer Recommendation	Caves Road Farms
Buffer of 800m between piggery and major water supply storage	There are no major water supply storage areas within 800m of the subject land.
Buffer of 30m between piggery and a defined water course	ROPs are set back at least 30m from water courses.
Buffer of 20m between piggery and a bore	ROPs are set back at least 20m from onsite bore.
Buffer of 200m to a public road carrying more than 50 vehicles per day	ROPs are set back at least 200m from Caves Road and Ellen Brook Road.
Buffer of 750m to a town site.	ROPs are 3.4 km from nearest townsite.
Buffer of 500m to a rural residential area.	ROPs are 2.5 km from nearest rural residential area.
Buffer of 250m to external rural dwelling	ROPs are located 381m from nearest external rural dwelling.



3.4 Model Code or Practice for the Welfare of Animals – Pigs

Caves Road Farms will operate in accordance with these guidelines.



4. Environmental Risk Assessment

An Environmental Risk Assessment (ERA) was undertaken in accordance with Appendix A of the National Environmental Guidelines for Rotational Outdoor Piggeries (APL, 2013). The purpose of a risk assessment is to identify actual or likely impacts that a proposed rotational outdoor piggery may pose to the environment, and allows for risks to be reduced through improved design, improved management or monitoring.

Full details, including the rating of the vulnerability of the major natural resources, and the risk of each of the major design and operation features of the ERA are provided in Appendix A of this document. Outcomes of the assessment is provided in the overall risk matrix provided in Figure 2.

Natural resource vulnerability	Combined Risk Rating			
	Soils of pig paddocks	Ground-water quality and availability	Surface quality and availability	Community amenity
Insert vulnerability ratings (1-4) >	4	4	4	1
Design and Operation Risk	Insert rating (1-4) for each design and operation item in this column	In the cells below, enter the product of the Natural Resource Vulnerability Rating and the Design and Operation Risk Rating. For instance, if the "soils of pig paddocks" has a vulnerability rating of 2 and "nutrient budgeting and monitoring" has a risk rating of 3, enter 6 (2X3). Do not complete shaded cells.		
Nutrient Budgeting and Monitoring	1	4	4	4
Distribution of Manure Nutrients	1	4	4	4
Nutrient Loss Prevention	1	4	4	1
Mortalities Management	1	4	4	4
Paddock Rehabilitation	1	4	4	4
Odour, Dust and Noise	1	4	4	1

A combined rating of 1-4 means a low risk and would not trigger any action.
A combined rating of 5-11 means a medium risk and may trigger explanation or action.
A combined rating of 12-16 means a high risk and would trigger explanation or action.

Figure 2. Environmental Risk Assessment Matrix

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Outcomes of the ERA showed a maximum combined risk rating of 4 which is considered low risk and not requiring any further action. The natural resource and amenity vulnerability ratings suggest that even through the Caves Road site has some inherent vulnerabilities, the design and operation features implemented ensure that the impact on the environment is low risk. These measures include regular rotation of animals, removal of all spent bedding from site and offsite processing of mortalities.



5. Site Nutrient Management

5.1 Caves Road Farms Overview

Caves Road Farms propose to establish a tourist oriented, boutique mixed species farm operation, with the intent of raising the awareness of sustainable food production. An important aspect of the production cycle is maximising the use of nutrients generated onsite, through the production of as much of the on-farm demand for silage, hay and straw as possible.

When appropriately managed, the benefits of utilising manure as a supply of nutrients are significant and include:

- Improved soil structure, including increased organic matter, improved infiltration and water holding capacity
- Slow release nutrients that have lower solubility than synthetic fertiliser
- Lower greenhouse gas emissions compared with synthetically produced fertiliser, due to the reductions in emissions associated with the manufacture and transport.

Successful use of manure nutrients is an important step towards achieving the long term environmental objectives for the operation.

Caves Road Farms have developed a Standard Operating Procedure (SOP) for the rotational piggery operation as a clear and practical document to manage on farm operations. This is included for information in Appendix B.

5.2 Pig Herd Composition

Caves Road Farms propose to establish a 15 sow farrow to finish operation with Berkshire pigs, with the composition of the herd provided in Table 5. Free range outdoor Berkshire pigs are ideally suited to outdoor environments however have a significantly lower reproductive rate than conventional intensive pig breeds with an expected 16 piglets raised per sow per year. Stock numbers are derived from Pigbal v4.099 with the output sheet provided in Appendix C.

Table 5. Caves Road Farms pig herd composition for 15 sow farrow to finish operation.

	Number of Pigs	Average Weight (kg)	SPU Factor	No. of SPUs
Gilts	1	137.6	1.80	2
Boars	1	207.6	1.60	2
Gestating sows	13	187.5	1.60	20
Lactating sows	2	187.5	2.50	6
Suckers	16	4.1	0.10	2
Weaner	26	18.4	0.51	26
Porker/Grower	32	55	1.28	42
Finisher	16	85.0	1.66	27
Total	107			112



5.3 Pig Rotational Areas

The key to successful nutrient management at outdoor piggeries is the rotation of stock to new ground. This allows the nutrients that have been deposited through manure to be utilised through the production of crops onsite.

A total area of 38.6 ha has been identified onsite that meets with the requirements of an outdoor piggery (Figure 1). Caves Road Farms propose to cycle manage the 15 sow farrow to finish (112 SPU) over two 18 ha operational areas, generally being east and west of the central laneway. Following two years of operation on one 18 ha site, all piggery activities will be relocated to new ground allowing the old piggery site at least two years break to allow for nutrients to be removed through cropping (high yielding hay and silage).

Due to the rotational nature of the piggery, there is no fixed infrastructure on the ROP areas. Table 6 provides details of the infrastructure associated with operation at maximum production.

Table 6. Rotational pig management

Pig Numbers	Housing
<ul style="list-style-type: none"> • 2 to 3 lactating sows • 16 sucker pigs 	 <p>Movable farrowing huts (2.4m x 2.4m) – 10 huts onsite with average of 2.5 in use at any one time.</p> <p>Farrowing huts moved to new ground for every new litter (4 weeks).</p>
<ul style="list-style-type: none"> • 13 gestating sows • 1 gilts • 1 boar 	 <p>Moveable skid shelter (5 x 8m) – 2 shelters onsite with both in use during normal operation (approximately 13 pigs in each).</p> <p>Pigs remain in the gestating sow shelter for 16 weeks, with each shelter moved to new ground or a new paddock when vegetation cover becomes low, or at a maximum frequency of every 6 weeks. The paddocks are set using movable hot wires.</p>

- 26 weaners
- 32 porker
- 16 finisher pigs



Movable skid shelter growout enclosures (5 x 8m – and 60m² panel fenced paddock) - 6 shelters onsite with average of 2 in use at any one time. The skid shelters are commonly used in many types of livestock production and are white as they they reflect the heat keeping the livestock cool. The shelters could have a green cover applied however this is not ideal from an animal welfare perspective.

Following weaning – pigs are raised in growout shelters for a maximum of 17 weeks. Pigs will be cycled through the shelters onsite with a maximum occupation of six weeks in the same shelter, All shelters will be moved to fresh ground for each rotation (ie they will move shelters three time before reaching maximum weight). Spent bedding will be collected and removed from site at the following the removal of pigs from the shelter.

Other livestock rearing areas of the site (65ha) will be used for the venison production as well as cows, goats and lamb, in combination with hay/silage production for animal feed, and is further discussed in Section 5.9.

5.4 Soil Capability

Caves Road Farms commissioned Soil Dynamics to undertake an assessment of the soil capacity on the site in April 2021. A copy of the report is included in Appendix B, with the key outcomes of the report summarised below.

- Proposed ROP area lies primarily within land units:
 - C - Cowaramup Flats and Gentle Slopes - Flats (0-2% gradient) and with gravelly duplex (Forest Grove) and pale grey mottled (Mungite) soils.
 - Cd2 - Cowaramup Deep Sandy Rises - Flats and gentle slopes with deep bleached sands.

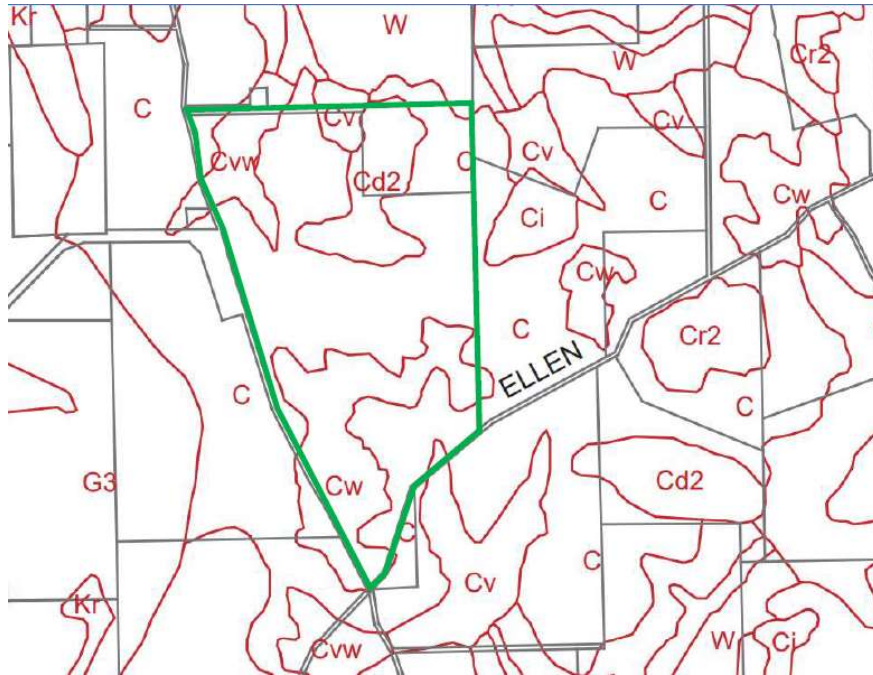


Figure 3. Soil land units onsite (Source. SW Hydrology, 2021)

- Land unit C was given a very high rating for suitability for livestock grazing
- Land unit Cd2 was given a high rating for grazing with a potential limitation of soil moisture availability.
- All sites were phosphorus deficient compared with the desirable levels for pasture.
- Nitrogen levels at the time of sampling were adequate for pasture at most sites, with one site nitrogen deficient and another with elevated nitrogen levels.

To complement the Soil Dynamics investigation, Integrity Ag and Environmental undertook a soil sampling investigation in December 2021 to assess the PBI of the soils onsite. Samples were collected from the topsoil (0 to 0.1m) and the subsoil (0.4 to 0.5m) from four sampling locations on the farm (Figure 1). Soils were analysed for a range of parameters including Phosphorus Buffering Index (PBI). PBI is a measurement of a soils tendency to chemically adsorb phosphorus, with the higher the PBI indicating that the phosphorus binds more strongly to the soil particles and less available for the plant to uptake. High PBI soils present a lower risk of nutrient leaching, and generally require a higher level of phosphorus application to achieve the same level of plant available phosphorus compared with lower PBI soils. Table 7 details the standard categories for phosphorus buffering in Australia.



Table 7. PBI Classification

PBI Category	Classification
<15	Extremely low
15-35	Very very low
36 – 70	Very low
71 - 140	Low
141 – 280	Moderate
281 – 840	High
>840	Very High

Source: (Moody 2007)

PBI results and the corresponding PBI classifications are provided for the sampling results in Table 8 with laboratory certificates provided on in Appendix E.

Table 8. Summary of Soil Testing Results

Sample Location	Sample Depth (m BGL)	PBI	PBI Classification*
S1	0.1m	189	Moderate
	0.4m	131	Low
S2	0.1m	408	High
	0.4m	532	High
S3	0.1m	246	Moderate
	0.4m	171	Moderate
S4	0.1m	619	High
	0.4m	831	High

Results suggest that the soils on the site have a moderate to high capacity to retain phosphorus within the soil profile. These results indicate a good capacity for retaining nutrients deposited through manure within the soil profile, and low risk of nutrient leaching.

5.5 Groundwater Depth

Five groundwater bores were installed onsite in December 2021 (Figure 1) by SW Hydrology, with the first round of groundwater levels collected in January 2022. Groundwater levels and bore construction details are shown in Figure 4.

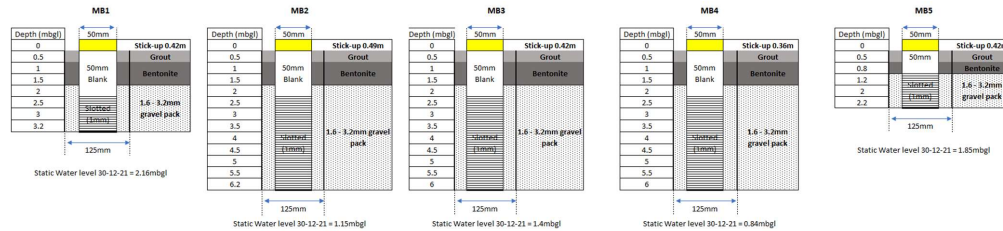


Figure 4. Groundwater Levels – January 2021 (Source: SW Hydrology)

Groundwater onsite varies between 2.16m BGL on the western boundary and 0.84m BGL at MB4 on the eastern boundary and, with a depth of 1.85m BGL in the centre of the proposed ROP area. These groundwater levels were collected in summer following a winter with significantly higher than average winter rainfall. Groundwater levels would be expected to rise over the winter period, and ongoing monitoring will be undertaken as part of the regular groundwater monitoring program. The groundwater bores have not been surveyed and as such it is not possible to convert groundwater with accuracy to mAHD.

5.6 Nutrient Management of ROPs

The ROP will generate waste products which consists primarily of pig manure and straw bedding. The nutrients present in these materials including nitrogen (N), phosphorus (P) and potassium (K) will need to be managed to reduce the risk of export from the property. Design and management factors which will be applied to this ROP (in accordance with *National Environmental Guidelines for Rotational Outdoor Piggeries*; APL, 2013) include:

- **Nutrient budgeting:** Rotations will be planned so that pigs are not continuously stocked on an area for longer than two years. Following the pig stocking phase, fodder crops for hay or silage will be grown to utilise accumulated N, P and K.
- **Facilitating even spreading of manure nutrients:** Within ROP areas, manure and consequently nutrients, are not spread evenly across the paddocks. This increases the risk of nutrient overloading a specific site, leaching and/or runoff. Moving pig shelters and feeding facilities regularly during the stocked phase will help spread nutrients more evenly. Farrowing shelters are moved between each litter of piglets, and group shelters are periodically moved (6 weeks) within the dry sow/bore rotations. Grower shelters will be moved after each batch at an interval of 17 weeks. In addition, feeders will be moved with every new pig cycle to minimise nutrient accumulation. These practices assist in evenly distributing the nutrients within the pig area. The exact locations of these may vary dependent on the configuration of the pig operations within the defined ROP areas.
- **Collection of spent bedding and manure between every pig cycle:** Between each grower cycle of pigs the manure and straw deposited in the shelters and any other high density areas will be collected and immediately placed into waiting truck trailers for export from the site. A high demand for the product exists due to the increasing demand for organic fertilisers and price of synthetic alternatives. Soil Dynamics has committed to collection all available spent bedding with a letter of confirmation provided in Appendix F.
- **Minimising uncontrolled movement of nutrients from ROP paddocks:** This will be achieved through regular spelling from pig production, with a plant growth and harvest phase to remove the nutrients added through the stocked phase and provision of a physical barrier and/or vegetative around the piggery perimeter. Each pig area will be rested for a minimum of two years before reuse.



- **Monitoring and surveillance:** Routine environmental monitoring of soil and surveillance of drainage lines will be undertaken both the pig and cropping phase of the rotation. Soil sampling will be undertaken in accordance with the APIQ guidelines, including samples collected prior to the pig phase commencing on a site, and then again prior to reusing and area for use as an ROP. This is undertaken to ensure that the nutrient levels have returned to satisfactory levels prior to reusing an area as an ROP.

5.7 Nutrient Balance of ROPs

The management of nutrients during and following the active pig phases is an important part of the operation of the facility. Nutrients deposited in the form of manure and straw bedding are applied to the soil. Table 9 provides estimates of the total nutrients applied from a range of pig classes.

Table 9. Predicted Nutrient Output by Class of Pig and Bedding Material (kg/head.yr)

Pig Class	Total Solids	Volatile Solids	Ash	Nitrogen	Phosphorus	Potassium
Gilt	197	162	35	12.0	4.6	4.0
Boar	186	151	35	15.0	5.3	3.8
Gestating sow	186	151	35	13.9	5.2	3.7
Lactating sow	310	215	95	27.1	8.8	9.8
Sucker	11.2	11.0	0.2	2.3	0.4	0.1
Weaner	54	47	7	3.9	1.1	1.1
Porker/Grower	108	90	18	9.2	3.0	2.4
Finisher	181	149	32	15.8	5.1	4.1
Wheat straw*	89	-	-	0.52	0.04	1.26

Source: National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)

Australian Pork Limited (APL) has developed a nutrient balance calculator that is used to assist outdoor piggery operators to sustainably manage paddock rotations. This calculator was used to model the nutrient loading resulting from the 15 sow farrow to finish operation on an 18 hectare rotational area. Figure 5 presents the nutrient balance following a 2 year active pig phase. Full details of the nutrient balance are provided in Appendix G.

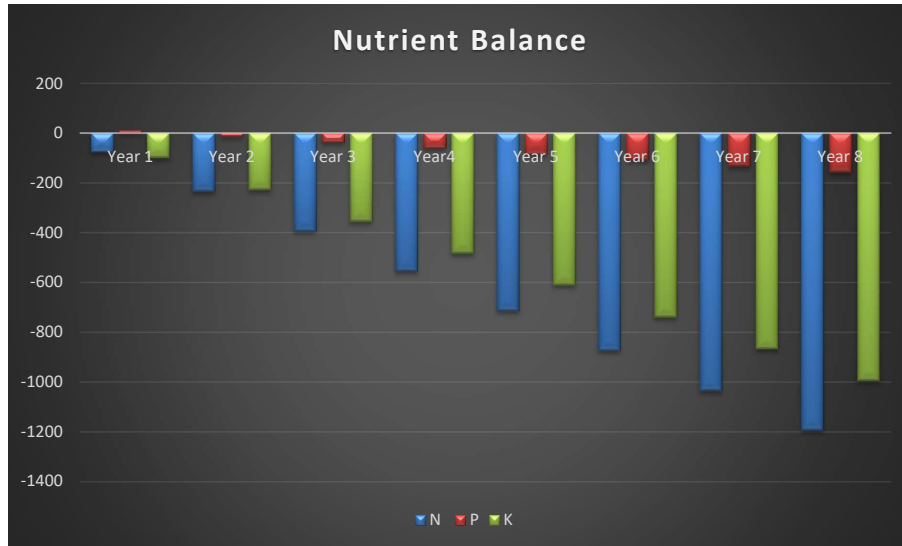


Figure 5. 15 Sow Farrow to Finish Nutrient Balance (excluding removal of spent bedding off site)

Total nutrient applied over the pig phase is expected to be:

- 84 kg/ha nitrogen over the 2 year period (42 kg/ha.yr)
- 34 kg/ha phosphorus over the 2 year period (17 kg/ha.yr)
- 28 kg/ha potassium over the 2 year period (14 kg/ha.yr)

The APL nutrient balance calculator does not have the capability to account for nutrients contained within the manure being exported from site, which is the management measure adopted at Caves Road farms to minimise nutrient loading to the area. It can be assumed that 50% of the nutrients are deposited within the shelter area which will be removed each time the shelters are moved. This 50% is a conservative assumption as outdoor pigs generally spend more than 12 hours a day within the straw lined shelter area.

The 50% nutrient removal is based on industry consultation from both within Western Australia and in Victoria (the only other state with significant numbers of ROPs). This value is assumed to be a reasonable estimation of the rate of nutrient collection given the nature of the proposal, with grower pigs spending 4 weeks before weaning with their mother and then moving for 17 weeks to the skid shelters. It should be noted that spent litter is a valuable commodity and every effort will be made to remove from site for commercial as well as environmental reasons.

Accounting for the removal of nutrients in manure offsite, the expected nutrient loading rate is

- 24 kg/ha nitrogen over the 2 year period (12 kg/ha.yr)
- 17 kg/ha phosphorus over the 2 year period (8 kg/ha.yr)
- 14 kg/ha potassium over the 2 year period (7 kg/ha.yr)

Following the active pig phase, the ROP area will be used for cropping to produce fodder for use in the piggery operation and for other livestock onsite. Nutrient removal through the production of winter cereal hay with a total yield of 8 tonnes/ha will result in actively reducing the nutrient concentrations

in the soil utilising 160kg/ha of nitrogen and 24 kg/ha of phosphorus per year. The site may also be used for silage which has a higher nutrient removal rate than cereal hay.

Two years of cropping will potentially remove 320 kg/ha of nitrogen and 48 kg/ha of phosphorus. This will fully remove all nutrients remaining following two years of operation as a ROP.

As there is no precedent for this small scale tourist oriented project, Caves Road Farms would be happy to increase the level of monitoring to ensure that suitable nutrient levels are achieved during the two year cropping cycle. Proposed monitoring includes biannual soil sampling (March and September) from the time the pigs leave the site. Many options exist for how additional nutrients could be removed, including the harvesting of silage and/or summer crops (ie meadow hay), which due to the higher rainfall are viable in this region and would allow three (or four) exports of nutrients from the site. In accordance with the APIQ guidelines, Caves Road Farm would not be able to reuse land for pigs until nutrient have returned to pre-piggery levels.

There are some simplistic assumptions in the model with regard to the availability of phosphorus. The application of phosphorus to different soil types can result in different amounts of bioavailable phosphorus due to the phosphorus buffering properties of the soils (which is measured as PBI). Moderate to high PBI soils, such as those at the Caves Road Farms site have a lower level of bioavailable phosphorus than if the same amount of phosphorus was added to low PBI soils. This results in a significantly reduced risk of leaching of nutrient.

Photograph 1 shows haybales produced in the proposed ROP areas harvested in the late 2021.



Photograph 1. 2021 hay production in proposed ROP area

Pig manure and spent litter is a valuable commodity for use as a substitute for synthetic fertilizers and soil improvers due to the high levels of nutrients and organic carbon. There is currently a high demand for piggery manure and spent litter and this is likely to continue due to the increasing price of commercially produced fertiliser. Soil Dynamics, local soil management consultants have committed to collecting as much manure and spent bedding material as possible from the Caves Road Farms operation with a letter of support included in Appendix F. Spent bedding will be loaded directly into waiting trailers every time shelters are relocated within the ROP area and removed from premise. No material will be stockpiled or reused onsite.

Caves Road Farms are proud of their integrated approach to agricultural production, with the system an example of maximising the use of waste products, reducing greenhouse gas emissions through the reduced reliance on synthetic fertilisers, improving soil structure and reducing transport.



5.8 Groundwater Management

Caves Road Farm recognise that the groundwater in the area is relatively close to the surface with a separation of 1.8m found in the bore most central to the ROP in January 2022. This is less than the preferred vertical separation distance for outdoor piggeries of 2m.

As shown in Section 5.7, nutrient application rates of 42kg/ha.yr for nitrogen and 17kg/ha.yr for phosphorus are generated through the application of piggery manure. The nutrient balance shows how these nutrients will be removed from the soil through active cropping management in the two years following the active pig phase. The relatively high PBI soils demonstrate that the soils have the capacity to retain phosphorus within the soil profile and will act to minimise leaching of nutrients to the groundwater. Nutrient application rates in the order of those applied through pig manure are typical for normal agricultural practice, and significantly less than what would be applied in any type of intensive agricultural landuse such as horticulture or dairy farming.

In comparison, *Water Quality Protection Note 22: Irrigation with Nutrient Rich Wastewater* (Department of Water 2008) suggests a maximum nutrient application rate of 300kg/ha.yr for nitrogen and 50kg/ha.yr for phosphorus is suitable at sites with soils with PBI values over 100 (average PBI for Caves Road Farms site is 391) and located within 500m of a surface water body. This recommendation is for soluble nutrient applied through irrigation which have a significantly higher risk of leaching than nutrients applied as solids, which is the case for livestock manure.

Ongoing groundwater monitoring will also be undertaken to detect any changes in water quality over time.

5.9 Nutrient Application Rates of Other Livestock

Caves Road Farms intend to utilise the 65ha grazing area (Figure 1) for the rearing of a range of livestock. As is typical in all primary industry, the number of stock onsite will vary depending on the point in the production cycle and the removal of stock from the farm for processing. Table 10 presents the maximum number of stock that will be present at any time. It is likely that over an annual period this number will be significantly lower than the modelled values.



Table 10. Maximum stock number and annual nutrient loading to 65 ha grazing area

Stock Number	Number of Stock	Nitrogen (kg/hd.yr)	Phosphorus (kg/hd.yr)	Total Nitrogen (kg)	Total Phosphorus (kg)
Deer ¹ – Breeder	250	17.7	2.8	4425	700
Deer ¹ - Yearling Hind	105	16.2	2.2	1701	231
Deer- Yearling stags	110	16.2	2.2	1782	242
Deer ^{1,2} - Calves	190				
Deer ¹ - Breeding Stags	10	20.3	2.7	203	27
Cattle ³ -max 600kg, average 400kg	20	48.0	8	960	160
Lambs ⁴ -average 40kg	30	3.3	0.8	98	24
Goats ⁵	30	4.8	0.95	143	29
Total				9,311	1,413
Total (incl 20% N loss)⁶				7,449	1,413
Nutrient Loading (kg/ha.yr)				115	22

¹ Red deer – Netherlands (Šebek *et al.* 2014)

² Included in breeder

³ Dairy heifers 440kg (ASAE 2005)

⁴ Grazing sheep – Spain (Šebek *et al.* 2014)

⁵ Grazing goats – Spain (Šebek *et al.* 2014)

⁶ Nitrogen loss through volatilisation 20%

Table 10 provides a nutrient loading for the grazing areas onsite, assuming maximum stock density over the annual period. It should be noted that there is limited data available on the nutrient content for deer manure, with the only data available being from Europe where due to diet the nutrient content is likely to be higher than deer produced in the Mediterranean climate of Margaret River.

The expected maximum nutrient loading for the grazing area is 115kg/ha of nitrogen and 22kg/ha of phosphorus which is consistent with normal agricultural nutrient application rates. As a comparison, *Water Quality Protection Note 22: Irrigation with Nutrient Rich Wastewater* (Department of Water 2008) suggests a maximum nutrient application rate of 300kg/ha.yr for nitrogen and 50kg/ha.yr for phosphorus is suitable at a sites with soils with PBI values over 100 and located within 500m of a surface water body. This recommendation is for soluble nutrient applied through irrigation which have a significantly higher risk of leaching than nutrients applied as solids, which is the case for livestock manure.

Consistent with the farming practices currently implemented onsite, livestock grazing will be rotated with crop production for hay and silage. Typical nutrient removal rates from cropping are provided in Table 11, with show that the 115 kg/ha of nitrogen and 22kg of phosphorus could be removed in a single year of cropping to produce perennial ryegrass or winter cereal hay.



Table 11. Typical nutrient removal through cropping (kg/yr)

	Average Yield	Nitrogen Removal	Phosphorus Removal
	tonnes/ha	kg/ha	kg/ha
Perennial Ryegrass	5 – 16	200 – 640	25 – 50
Winter Cereal Hay	10 – 20	160 – 400	30 – 60
Wheat	2 – 5	42 - 105	8 - 20

Source: Piggery manure and effluent reuse guidelines (Tucker 2015)

The site had been used for the farming of approximately 700 red deer for over 30 years. Based on a soil investigation undertaken by Soil Dynamics in 2021, the site showed no accumulation of nutrients resulting from historic grazing practices and was nutrient deficient, particularly with respect to phosphorus. This is not an unexpected result, as the grazing of animals will remove nutrients in liveweight gain and the nutrient levels in the soil will decrease without additional nutrients being imported as fertiliser or feed.



6. Water Management Plan

Caves Road Farms engaged SW Hydrology, an experienced local hydrologist to undertake a Hydrological Assessment to provide detail on the water supply and surface water management across the site. A copy of this report is included in Appendix H.

6.1 Water supply

The introduction of pigs and other livestock onsite will result in an increase in the water demand onsite. Section 4 of the Hydrological Assessment (Appendix H) details an increase in demand for water and how the supply will be managed onsite. An application has been prepared and submitted to DWER's Busselton Water Licensing Branch regarding the dam construction on the property, and will on approval from DWER will be the subject of a separate development application with the Shire of Augusta Margaret River. This application will include a visual impact assessment and details on the vegetation species proposed for the revegetation.

In the event of a water supply issue, water would be transported onto the site and/or livestock numbers reduced to reduce demand.

6.2 Surface water management

Two intermittent seasonal surface drainage lines run through the property as shown in Figure 1. All ROP areas will be set back at least 30 m from the surface drainage lines. The 30m buffer distance will be maintained as vegetative filter strips consisting of runner developing, non-clumping grasses, which are already established in the area. This is the recommended buffer distance for gently sloping land as noted in the National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker *et al.* 2013). All pigs will be fenced to exclude them from vegetative buffer strips and drainage lines. Due to the minor nature of the drains, no data is available on the extent of flooding in high rainfall events.

Stormwater runoff will be monitored following rainfall events during the daily monitoring rounds. In the event that clean stormwater is found to be entering the active pig area, this water will be diverted using temporary bunding from soil found onsite. Following the movement of the pigs to a new site, the bunds will be removed to minimise the impact on the current surface water flows.

SW Hydrology propose a series of contour drains to be developed across the site to improve surface flow to the existing drainage lines and reduce the likelihood of surface ponding. Details are provided in Section 5 of the Hydrological Assessment report (Appendix H). The construction of the contour drains will have no negative impact on the bed and banks of any water course onsite. In the event some surface ponding does occur, the ROP's moveable livestock shelters would be moved to higher ground within the ROP area in the winter months.

7. Rotational Outdoor Piggery – Management

7.1 Climate Suitability

A number of climatic factors impact on the suitability of a site for the establishment of an outdoor piggery, including temperature and rainfall. National Environmental Guidelines for Rotational Outdoor Piggeries (APL, 2013) suggests that outdoor pigs are generally suited to temperate climates with a mean maximum summer temperature less than 28°C, mean winter temperature greater than 3°C and an annual rainfall over less than 760mm. However, the guideline also notes that outdoor piggeries can operate in other climates with good design and management.

The basis for the recommended summer temperature is that high temperatures having the potential to cause summer infertility in pigs. The selections of the Berkshire pigs that are specifically suited to outdoor productions, and with a low base reproduction rate ensures that the temperatures at the site will not negatively impact on the welfare of the animals of the viability of the operation.

Winter minimum temperatures exceeding 3°C are recommended to minimise water pipelines freezing and to provide a more comfortable environment for stock and staff. Mean winter temperatures at the site are above this level.

Annual average rainfall at the site is in the order of 950mm (Shire of Augusta- Margaret River). This exceeds the 760mm stated in the APL guidelines. Potential impacts resulting from higher rainfall include management of surface water and ground conditions within the ROP areas. To ensure the surface water is appropriately managed, Caves Road Farms have engaged and experienced hydrologist to develop a drainage plan as discussed in Section 6.2. The soil types in the ROP (gravelly duplex), very low stocking density and high frequency of rotation will ensure that suitable ground conditions are maintained. Bedding within the grower shelters will remain dry, and immediately following the shifting of the shelters will be loaded onto trailers and removed from site. This will eliminate any risk of the leaching and/or odour generation from the potentially high nutrient bedding material.

One significant benefit of the higher rainfall is that it encourages the retention and regeneration of vegetation groundcover which is an important factor in the management of nutrients and dust onsite.

It should be noted that the guidelines noted are generic for all outdoor piggery operations and compared with commercial scale outdoor piggeries, which have up to 10,000 SPU, some of the recommendations are not directly applicable to the tourist oriented, boutique nature of the Caves Road Farms proposal.

7.2 Mortalities management

The expected number and mass of mortalities from a 15 sow piggery operation is determined by Pigbal v4 as shown in Appendix C. An expected mass of 640 kg is likely to be generated from the pig operation. Caves Road Farms propose to manage mortalities by removal to a third party processor for processing. Tallowman operate a high volume licenced rendering facility (DWER Licence L4294/1983/17), and have confirmed that they can collect and dispose of mortalities from the site (Appendix I). Caves Road Farms have suitable cold storage for the holding of pigs until collection. In the unlikely event that Tallowman can not collect the mortalities, bodies will be held in cold storage until an alternative processor can be found.

Emergency responses in the pig industry sector are guided by AUSVETPLAN (Animal Health Australia). AUSVETPLAN is a series of technical response plans that describe the proposed Australian approach to an emergency animal disease incident. The documents provide guidance based on recent analysis of risks, linking policy, strategies, implementation, coordination and emergency management plans.



Farm biosecurity is a very important part of operations, with a draft version of the Caves Road Farms Biosecurity Plan included in Appendix J. Mass pig deaths due to factors such as abnormal heat stress or disease rarely occur. A draft Emergency Animal Disease Plan is included in Appendix K.

When an EAD is detected on farm, the farm owner will obtain a veterinary report and immediately contact the Emergency Disease Watch Hotline (1800 675 888), Shire of Augusta Margaret River Environmental Health Officer (EHO), Department of Agriculture and Food (DAFWA) and Department of Health (DOH), where applicable. These agencies will provide guidance to the landowner on disease control and hygiene, transport and disposal of diseased dead pigs. Caves Road Farms will manage mass mortalities as recommended by the relevant agencies, which is likely to be either through rendering or burial at a third party farm site that does not raise pigs. Due to the relatively small number of animals onsite, rendering is expected to be a most viable option for disposal.

7.3 Fly breeding

Fly breeding will be managed through an integrated pest management approach. This will include a high level of maintenance of pig paddocks, water troughs, feed preparation and storage areas which will assist in minimising fly numbers. Collection of spent bedding immediately following the end of the active pig phase, with material removed from site for composting without stockpiling will minimise the breeding opportunity.

While the use of chemicals in livestock is tightly regulated, a number of viable options do exist for chemical treatment to control fly numbers in pigs including Inca Ban Fly; Musca Ban; Value Plus; Flygon and Ecovet insect repellent.

The Caves Road Farm shop front is the closest receptor to the ROP areas and in the event that there is an increase in fly number then spaying of approved fly control measures will be implemented to manage numbers.

7.4 Odour

ROPs pose a low risk of causing a substantial off-site odour impacts provided they are designed and managed according to sustainable nutrient loading rate criteria (Tucker *et al.* 2013). ROPs are not required to meet site-specific separation distances, but should meet the minimum separation distances set out in the *National Environmental Guidelines for Outdoor Piggeries* (Tucker *et al.* 2013). The ROP compartments in this Caves Road Farms proposal meet all separation distances outlined. Recommended measures to assist in minimising odour to and the proposed Caves Road Farms Management measures are summarised in Table 12.

Table 12. Odour mitigation management measures

Odour Mitigation Recommendation	Caves Road Farms Management
Keeping pig densities at recommended levels –	Caves Road Farms stocking density is well below the recommended level being 6 SPU/ha across the herd (1 SPU per 1,600m ²).
Ensuring removal of spent bedding it maximised at the end of each pig cycle	Commitment from third party compost producer to collect all available manure and spent bedding. This will be removed from the grower pens at the end of each removed immediately from site for composting. No spent bedding material will be stockpiled or reused onsite.



Ensuring that there is adequate infiltration of water and drainage of pens	Surface water management including the installation of contour drains will improve surface drainage to ensure that all ROP areas maintain adequate infiltration.
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7.5 Fencing

Due to the site being used as a deer farm for over 30 years, the standard of fencing is extremely high. Consisting of double high, very well maintained ring lock to minimise the risk of deer escaping. All deer fencing will be maintained and provide a secondary barrier to the pig fencing ensuring the risk of pigs escaping to nearby bushland will be very low.

7.6 Native vegetation

Almost all the subject land has been cleared with only some small areas of remnant vegetation. Fencing onsite will ensure that any livestock is excluded from remnant vegetation

7.7 Environmental monitoring program

Caves Road Farms are committed to undertaking an ongoing soil and groundwater monitoring program. Soil sampling will be undertaken in accordance with the recommended methodology in the National Environmental Guideline for Rotational Outdoor Pigs (Tucker *et al.* 2013) and the APIQ Standards Manual (APIQ 2021). Groundwater sampling is not generally a requirement of outdoor piggeries but Caves Road Farms would like to undertake the sampling to monitor groundwater quality. The details of the environmental monitoring program are summarised in Table 13.

Table 13. Environmental monitoring program

Monitoring	Frequency	Locations	Parameters
Soil Sampling	Annual monitoring	<ul style="list-style-type: none"> • Minimum of three (3) samples collected as composite from active ROP area. 	<ul style="list-style-type: none"> • pH • EC_{SE} • Nitrate-nitrogen • Colwell P
	Biannually (March and September)	<ul style="list-style-type: none"> • Minimum of three (3) samples collected as composite from ROP area not in use. 	<ul style="list-style-type: none"> • Potassium • Organic Carbon • Exchangeable Cations and CEC (calcium, sodium, potassium, magnesium)
Groundwater Monitoring	Biannually (March and September)	MB1 – MB5: Five groundwater bores located onsite	<ul style="list-style-type: none"> • pH • EC • TDS • Total Nitrogen • NOx as N • NH₃/NH₄ as N • Total Phosphorous



References

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- Skerman A, Wilis S, Mcgahan E, Marquardt B (2015) PigBal 4. A Model for Estimating Piggery Waste Production. Department of Agriculture, Fisheries and Forestry (DAFF), (Toowoomba, Australia)
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Appendix A. Environmental Risk Assessment

(Based on National Environmental Guidelines for Rotational Outdoor Piggeries (Revised) (Tucker et al. 2013)



A1 Introduction

The purpose of this environmental risk assessment process is to help producers identify any actual or likely impacts that an existing or proposed rotational outdoor piggery may pose to the environment. This provides the basis for reducing impacts (or risks of impacts) through improved design, improved management or monitoring. There are three steps in this process:

- rate the vulnerability of the major natural resources
- rate the risk of each of the major design and operation features of the piggery
- evaluate the likelihood of an environmental impact.

Note that the information in this Appendix is designed to provide a guide to the risk of an environmental impact only. It is not designed to provide a guide to risk in other areas e.g. workplace health and safety.

For an electronic version of this Environmental Risk Assessment, please go to www.australianpork.com.au.

A2 Natural Resources and Amenity (Vulnerability Ratings)

The first step in an environmental risk assessment is to rate the vulnerability of each of the major natural resources or amenities associated with the piggery, including:

- soils of pig paddocks
- groundwater quality and availability
- surface water quality and availability
- community amenity.

Information to assist in deciding resource and amenity vulnerability is supplied in the tables below. Since it is not possible to represent all situations that will occur on all farms, discretion should be used when evaluating the site vulnerability using these tables. To use the risk assessment:

1. Read the rating criteria for each item and circle comments that apply to your farm. (This can help in identifying monitoring requirements later in the risk assessment process).
2. Based on the circled comments, select the most appropriate rating for each item. This will be the highest number with a circled comment.
3. Determine the overall vulnerability rating for each natural resource / amenity area. To do this, find the highest ticked rating and record this as the overall rating at the bottom of the page. For example, if you have ticked ratings 1, 2 and 3 but not 4 for soils of pig paddocks, the soils at your piggery have an overall vulnerability rating of 3.

A2.1 Vulnerability Rating – Soils of Pig Paddocks

Rating Criteria	Rating
Paddocks used to run pigs are:	
• suited to growing a broad range of broadacre crops and pastures	1 <input checked="" type="radio"/>
• suited to growing crops or pastures that can be cut and carted	3 <input type="radio"/>
• unsuited to growing or harvesting crops or pastures that can be cut and carted	4 <input type="radio"/>
Paddocks used to run pigs have a soil depth of:	
• at least 1 m	1 <input checked="" type="radio"/>
• at least 0.75 m	2 <input type="radio"/>
• at least 0.5 m	3 <input type="radio"/>
• less than 0.5 m	4 <input type="radio"/>
Paddocks used to run pigs have soils that are:	
• well structured, non-rocky, non-saline and non-sodic	1 <input checked="" type="radio"/>
• non-rocky, non-saline and non-sodic	3 <input type="radio"/>
• rocky or saline or sodic	4 <input type="radio"/>
Paddocks used to run pigs have soils that are:	
• loam to light clay in texture	1 <input checked="" type="radio"/>
• sandy loam to medium clay in texture	2 <input type="radio"/>
• heavy clay (> 50% clay) in texture	3 <input type="radio"/>
• sandy in texture (< 10% clay)	4 <input type="radio"/>
Paddocks used to run pigs are:	
• not prone to waterlogging	1 <input type="radio"/>
• prone to waterlogging	4 <input checked="" type="radio"/>
Paddocks used to run pigs are:	
• above the 1 in 100 year flood line	1 <input checked="" type="radio"/>
• above the 1 in 50 year flood line	2 <input type="radio"/>
• above the 1 in 20 year flood line	3 <input type="radio"/>
• lower than the 1 in 20 year flood line	4 <input type="radio"/>
Paddocks used to run pigs have slopes of:	
• 2–4%	1 <input type="radio"/>
• 0–2% or 4–6%	3 <input checked="" type="radio"/>
• > 6%	4 <input type="radio"/>
OVERALL RATING	
4	

A2.2 Vulnerability Rating – Groundwater Quality and Availability

Rating Criteria	Rating
The depth to groundwater is:	
<ul style="list-style-type: none"> always at least 20 m below the ground surface of paddocks used to run pigs OR always at least 10 m beneath the surface and protected by a significant rock or clay band 	1 <input type="checkbox"/>
<ul style="list-style-type: none"> always at least 10 m below the ground surface of paddocks used to run pigs OR always at least 5 m beneath the ground surface and protected by a significant rock or clay band 	2 <input type="checkbox"/>
<ul style="list-style-type: none"> always at least 2 m below the ground surface of paddocks used to run pigs 	3 <input type="checkbox"/>
<ul style="list-style-type: none"> sometimes present at a depth of less than 2 m below the ground surface of paddocks used to run pigs. 	4 <input checked="" type="checkbox"/>
Water for potable use is:	
<ul style="list-style-type: none"> not sourced from bores located within 1 km of the piggery 	1 <input checked="" type="checkbox"/>
<ul style="list-style-type: none"> sourced from bores located within 1 km of the piggery 	4 <input type="checkbox"/>
If groundwater is used in the piggery, there is:	
<ul style="list-style-type: none"> ample allocation and supply that is of a suitable quality to meet requirements 	1 <input type="checkbox"/>
<ul style="list-style-type: none"> sufficient allocation and supply that is of a suitable quality to meet requirements 	3 <input type="checkbox"/>
<ul style="list-style-type: none"> marginal or insufficient allocation or supply (and no other water source) or the water is of a marginal quality to meet requirements 	4 <input type="checkbox"/>
OVERALL RATING	4

A2 NATURAL RESOURCES AND AMENITY (VULNERABILITY RATINGS)

A2.3 Vulnerability Rating - Surface Water Quality and Availability

Rating Criteria	Rating
Paddocks used to run pigs are located:	
• at least 200 m from the closest watercourse	1 <input type="checkbox"/>
• at least 100 m from the closest watercourse	2 <input type="checkbox"/>
• within 100 m from the closest watercourse	4 <input checked="" type="checkbox"/>
Paddocks used to run pigs are located:	
• at least 800 m from the closest major water supply	1 <input checked="" type="checkbox"/>
• within 800 m from the closest major water supply	4 <input type="checkbox"/>
Paddocks used to run pigs and other on-farm reuse areas:	
• comply with the buffer distances in Table 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> and there are also vegetative filter strips or terminal ponds between these areas and all watercourses	1 <input checked="" type="checkbox"/>
• comply with the buffer distances in Table 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	2 <input type="checkbox"/>
• don't comply with the buffer distances in Table 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> but there are effective VFS (designed as per Section 6.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>) or terminal ponds between these areas and all watercourses	3 <input type="checkbox"/>
• don't comply with the buffer distances in Table 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> and there are not effective VFS (designed as per Section 6.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>) or terminal ponds between these areas and all watercourses	4 <input type="checkbox"/>
Paddocks used to run pigs are located:	
• above the 1-in-100 year flood line	1 <input checked="" type="checkbox"/>
• above the 1-in-50 year flood line	3 <input type="checkbox"/>
• within the 1-in-50 year flood line	4 <input type="checkbox"/>
On-farm reuse areas are located:	
• above the 1-in-10 year flood line	1 <input type="checkbox"/>
• above the 1-in-5 year flood line	2 <input type="checkbox"/>
• within the 1-in-5 year flood line	4 <input type="checkbox"/>
If surface water is used in the piggery, there is:	
• ample allocation and supply that is a suitable quality to meet requirements	1 <input checked="" type="checkbox"/>
• marginal or insufficient allocation or supply (and no other water source) or the water is of a marginal quality to meet requirements	4 <input type="checkbox"/>
OVERALL RATING 4	

A2.4 Vulnerability Rating - Community Amenity

Rating Criteria	Rating
The piggery has received:	
• no complaints from the public or regulators for at least five years	1 <input type="checkbox"/>
• less than two complaints per year (on average) over the past five years	2 <input type="checkbox"/>
• less than four complaints per year (on average) over the past five years	3 <input type="checkbox"/>
• four or more complaints per year (on average) over the past five years	4 <input type="checkbox"/>
The pig paddocks:	
• always meet all the minimum fixed separation distances specified in Table 8.2 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	1 <input checked="" type="checkbox"/>
• always meet the minimum fixed separation distances to a town, rural residential area, rural dwelling specified in Table 8.2 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	2 <input type="checkbox"/>
• always meet the minimum fixed separation distances to a town, rural residential area and rural dwelling specified in Table 8.2 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	3 <input type="checkbox"/>
• don't always meet the minimum fixed separation distances to a town, rural residential area or rural dwelling specified in Table 8.2 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	4 <input type="checkbox"/>
Surrounding land is:	
• all designated rural and is not designated for future development or rezoning	1 <input checked="" type="checkbox"/>
• all designated rural but some is designated for either future development or rezoning	3 <input type="checkbox"/>
• not all designated rural	4 <input type="checkbox"/>
OVERALL RATING	1 <input type="text"/>

4

A3 Design and Operation (Risk Assessment)

The second step of the environmental risk assessment is to rate the risk of each of the major design and operation features of the piggery, including:

- nutrient budgeting and monitoring
- distribution of manure nutrients
- nutrient loss prevention
- mortalities management
- paddock rehabilitation after the pig phase
- odour, dust and noise.

Not all the factors given below will be applicable to all enterprises. For example, there are factors that relate to grower pigs and these would not apply to an OB facility. Where factors are irrelevant for a given situation, they do not require evaluation.

To use the risk assessment:

1. Read the rating criteria for each item and circle comments that apply to your farm. (This can help in identifying monitoring requirements later in the risk assessment process).
2. Based on the circled comments, select the most appropriate rating for each item. This will be the highest number with a circled comment.
3. Determine the overall rating for each design and operation area. To do this, find the highest ticked rating and record this as the overall rating at the bottom of the page. For example, if you have ticked ratings 1, 2 and 3 but not 4 for nutrient budgeting and monitoring, this area has an overall vulnerability rating of 3.

A3.1 Risk Assessment – Nutrient Budgeting and Monitoring

Rating Criteria	Rating
The quantity of nutrients deposited over the paddocks as pig manure is:	
<ul style="list-style-type: none"> estimated before or within the first 12 months of the pigs moving onto an area and a pig-crop/forage/pasture rotation able to remove the added nitrogen, phosphorus and potassium or achieve sustainable soil nutrient levels over a maximum of six years is planned 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> estimated before or within the first 12 months of the pigs moving onto an area and a pig-crop/forage/pasture rotation able to remove the added nitrogen, phosphorus and potassium or achieve sustainable soil nutrient levels over a maximum of eight years is planned 	2 <input type="radio"/>
<ul style="list-style-type: none"> estimated before or within the first 24 months of the pigs moving onto an area and a pig-crop/forage/pasture rotation able to remove the added nitrogen, phosphorus and potassium or achieve sustainable soil nutrient levels over a maximum of eight years is planned 	3 <input type="radio"/>
<ul style="list-style-type: none"> either not estimated within the first 24 months of the pigs moving onto an area and/or a plan for a pig-crop/forage/pasture rotation able to achieve sustainable soil nutrient levels or achieve sustainable soil nutrient levels over a maximum of eight years is not developed 	4 <input type="radio"/>
Soil sampling:	
<ul style="list-style-type: none"> occurs before the commencement of each pig phase that is expected to exceed 24 months in length; and at the end of any 24 month period in which pigs are stocked on an area for any length of time; and at the end of any subsequent 24 month period that includes a pig phase 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> occurs at the end of any 24 month period in which pigs are stocked on an area for any length of time; and at the end of any subsequent 24 month period that includes a pig phase 	2 <input type="radio"/>
<ul style="list-style-type: none"> occurs at the end of any 36 month period in which pigs are stocked on an area for any length of time; and at the end of any subsequent 36 month period that includes a pig phase 	3 <input type="radio"/>
<ul style="list-style-type: none"> does not regularly occur 	4 <input type="radio"/>
Soil sampling:	
<ul style="list-style-type: none"> produces a set of samples that is representative of the expected nutrient-rich area of each block of paddocks 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> produces a set of samples that represents the average of the whole block of paddocks (i.e. soil collected from the expected nutrient-rich area of each block of paddocks is bulked with soil from the other areas) 	3 <input type="radio"/>
<ul style="list-style-type: none"> does not regularly occur 	4 <input type="radio"/>

A3.1 Continued

Rating Criteria	Rating
Soil sampling depths and analysis parameters:	
<ul style="list-style-type: none"> are in accordance with Table 15.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> or the requirements of a planning or development consent, approval, permit or licence 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> include topsoil monitoring of pH, EC, ESP, nitrate-nitrogen, available phosphorus, potassium; and subsoil monitoring of EC, ESP and nitrate-nitrogen 	2 <input type="radio"/>
<ul style="list-style-type: none"> include topsoil monitoring of pH, EC, ESP, nitrate-nitrogen, available phosphorus, potassium; and subsoil monitoring of nitrate-nitrogen 	3 <input type="radio"/>
<ul style="list-style-type: none"> are not in accordance with any of the above 	4 <input type="radio"/>
Before the commencement of a pig phase expected to exceed 24 months in length:	
<ul style="list-style-type: none"> the results of soil testing show that: the soil properties are below the trigger values suggested as indicators of sustainability in Section 15 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>; or they are similar to those of a background plot; or they are satisfactory to the licencing authority, an independent soil scientist or an independent agronomist 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> there are either no soil testing results or these do not meet the criteria above 	4 <input type="radio"/>
OVERALL RATING	
1	

A3.2 Risk Assessment – Distribution of Manure Nutrients

Rating Criteria	Rating
In breeder paddocks:	
<ul style="list-style-type: none"> shelters and/or feeding points are moved at least every three months to promote more even nutrient deposition over the land, or when the length of the pig phase is less than three months, shelters and/or feeding points are relocated before the return of the pigs to the area 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> shelters and/or feeding points are moved at least every six months to promote more even nutrient deposition over the land, or when the length of the pig phase is less than six months, shelters and/or feeding points are relocated before the return of the pigs to the area, or feed is always delivered right along the length of a paddock perimeter fenceline or dispersed over a significant part of the paddock area and feeding areas are well-separated from shelters 	2 <input type="radio"/>
<ul style="list-style-type: none"> waterers, wallows or cooling facilities are moved at least every six months to promote more even nutrient deposition over the land, or when the length of the pig phase is less than six months waterers, wallows or cooling facilities are relocated before the return of the pigs to the area 	3 <input type="radio"/>
<ul style="list-style-type: none"> the above criteria are not met 	4 <input type="radio"/>
In grower paddocks:	
<ul style="list-style-type: none"> shelters and/or feeding points are moved at least every six weeks to promote more even nutrient deposition over the land, or when the length of the pig phase is less than six weeks, shelters and/or feeding points are relocated before the return of the pigs to the area 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> shelters and/or feeding points are moved at least every three months to promote more even nutrient deposition over the land, or when the length of the pig phase is less than three months, shelters and/or feeding points are relocated before the return of the pigs to the area, or feed is always delivered along most of the length of a paddock perimeter fenceline or dispersed over a significant part of the paddock area and feeding areas are well-separated from shelters 	2 <input type="radio"/>
<ul style="list-style-type: none"> waterers, wallows or cooling facilities are moved at least every three months to promote more even nutrient deposition over the land, or when the length of the pig phase is less than three months, waterers, wallows or cooling facilities are relocated before the return of the pigs to the area 	3 <input type="radio"/>
<ul style="list-style-type: none"> the above criteria are not met 	4 <input type="radio"/>
If significant quantities of spent bedding are produced from the shelters, this material is:	
<ul style="list-style-type: none"> dispersed over land within the pig paddocks that is not within the expected nutrient rich areas that are bounded by the shelters, shade, feeding points, waterers, wallows and spray or drip coolers; or removed from the pig paddocks for spreading on other parts of the farm that meet the fixed buffer criteria specified in Table 8.3 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> dispersed over land within the piggery that includes the expected nutrient rich areas, or is spread on land on-farm that does not comply with the fixed buffer criteria specified in Table 8.3 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> 	4 <input type="radio"/>
OVERALL RATING	
1 <input type="text"/>	

A3.3 Risk Assessment – Nutrient Loss Prevention

Rating Criteria	Rating
Potential nutrient loss pathways:	
• are identified in a Nutrient Management Plan or Environmental Management Plan which also includes an Action Plan for addressing these concerns	1 <input checked="" type="radio"/>
• have been identified and there is a written Action Plan for addressing these concerns	2 <input type="radio"/>
• have been identified	3 <input type="radio"/>
• have not been specifically identified	4 <input type="radio"/>
Nutrient export from pig paddocks is:	
• minimised by selecting sites with a gentle slope and continually maintaining good levels of groundcover over the paddocks	1 <input checked="" type="radio"/>
• minimised by selecting sites with a gentle slope and maintaining sufficient groundcover over the paddocks for most of the year in conjunction with structures that effectively limit erosion (e.g. contour banks) and runoff	2 <input type="radio"/>
• minimised by selecting sites with a gentle to moderate slope and either maintaining sufficient groundcover over the paddocks for most of the year or installing structures that effectively limit erosion (e.g. contour banks) and runoff	3 <input type="radio"/>
• not minimised because the land has excess slope, or there is insufficient groundcover, or there are no structures that effectively limit erosion and runoff	4 <input type="radio"/>
Nutrients in runoff or soil eroded from the pig paddocks are:	
• controlled through meeting the recommended buffer distances specified in Section 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i> ; and appropriately designed VFS at least 10 m wide or terminal ponds that catch the first 12 mm of runoff	1 <input checked="" type="radio"/>
• controlled through meeting the recommended buffer distances specified in Section 8.1 of the <i>National Environmental Guidelines for Rotational Outdoor Piggeries</i>	2 <input type="radio"/>
• not specifically prevented	4 <input type="radio"/>
Wallows:	
• are lined with clay-loam to clay soils	1 <input checked="" type="radio"/>
• are lined with loam soils	2 <input type="radio"/>
• are not lined with loam to clay soils	4 <input type="radio"/>
OVERALL RATING	
1	

A3.4 Risk Assessment – Mortalities Management

Rating Criteria	Rating
Dead pigs are:	
• always removed from the paddocks daily	1 <input checked="" type="radio"/>
• left in the paddocks for more than 24 hours	4 <input type="radio"/>
Mortality management (e.g. placement in a composting pile, burial etc):	
• always occurs within 24 hours of death	1 <input checked="" type="radio"/>
• always occurs within 36 hours of death	2 <input type="radio"/>
• always occurs within 48 hours of death	3 <input type="radio"/>
• does not always occur within 48 hours of death	4 <input type="radio"/>
Mortality management is by:	
• rendering or composting	1 <input checked="" type="radio"/>
• burial or proper incineration	3 <input type="radio"/>
• burning or dumping	4 <input type="radio"/>
Mortalities composting areas, burial pits, and areas used to store mortalities prior to collection:	
• always provide at least 2 m depth between base level and groundwater; and are concreted or sealed to a design permeability of 1×10^{-9} for a depth of 300 mm	1 <input type="radio"/>
• always provide at least 2 m depth between base level and groundwater	3 <input type="radio"/>
• either sometimes provide less than 2 m depth between base level and groundwater; or are not on a well sealed site	4 <input type="radio"/>
Where mortalities management is by composting or burial, carcasses are:	
• always promptly covered with at least 300 mm of sawdust or alternative carbon source (if composting) or soil (if burying) and continuously kept covered	1 <input type="radio"/>
• generally promptly covered with at least 300 mm of sawdust or alternative carbon source (if composting) or soil (if burying) and continuously kept covered	2 <input type="radio"/>
• generally not promptly covered with at least 300 mm of sawdust or alternative carbon source (if composting) or soil (if burying) or not continuously kept covered	4 <input type="radio"/>
Where mortalities management is by composting, burial or burning this:	
• occurs within a controlled drainage area with stormwater diverted away from the area	1 <input type="radio"/>
• does not occur within a controlled drainage area	4 <input type="radio"/>
To be prepared for a mass mortalities event, there is:	
• a suitable site selected and a detailed plan for managing mass mortalities	1 <input checked="" type="radio"/>
• a suitable site selected and a plan for managing mass mortalities	2 <input type="radio"/>
• a suitable site selected but no real plan for managing mass mortalities	3 <input type="radio"/>
• no site selected or plan for managing mass mortalities	4 <input type="radio"/>
OVERALL RATING	1 <input type="text"/>

A3.5 Risk Assessment – Paddock Rehabilitation

Rating Criteria	Rating
Inspection of each block of paddocks to identify soil erosion or structural issues:	
<ul style="list-style-type: none"> occurs on completion of the pig phase and where the pig phase exceeds 24 months in length at least every 24 months, any issues that need addressing are identified, and a plan to address the issues is developed and implemented within a month of the inspection 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> occurs on completion of the pig phase and where the pig phase exceeds 24 months in length at least every 24 months, any issues that need addressing are identified and a plan to address the issues is developed and implemented within three months of the inspection 	2 <input type="radio"/>
<ul style="list-style-type: none"> does not occur in accordance with the above 	4 <input type="radio"/>
Where significant soil erosion has resulted from the pig phase:	
<ul style="list-style-type: none"> the site is remediated by back-filling the eroded area with soil and growing a pasture ley crop in the first year after the pig phase 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> the site is remediated by back-filling the eroded area with soil before growing a crop 	3 <input type="radio"/>
<ul style="list-style-type: none"> the site is not remediated 	4 <input type="radio"/>
Where significant soil compaction has resulted from the pig phase:	
<ul style="list-style-type: none"> the site is remediated by growing a pasture ley crop in the first year after the pig phase and by only cultivating soil when moisture content between wilting point and field capacity 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> the site is remediated by only cultivating the soil when the moisture content is between wilting point and field capacity and by deep ripping the soil and/or applying gypsum (if appropriate for soil type) 	2 <input type="radio"/>
<ul style="list-style-type: none"> the site is not remediated 	4 <input type="radio"/>
Wallows are:	
<ul style="list-style-type: none"> remediated when they are replaced and if needed within three months of completion of the pig phase by deep ripping the soil, applying gypsum to the soil (if appropriate for the soil type), filling with soil and levelling to match the slope of the land 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> remediated when they are replaced and if needed within three months of completion of the pig phase by deep ripping the soil, filling with soil and levelling to match the slope of the land or wallows remediation is not needed because of the intended land use of the area 	2 <input type="radio"/>
<ul style="list-style-type: none"> remediated when they are replaced and if needed within three months of completion of the pig phase by filling with soil 	3 <input type="radio"/>
<ul style="list-style-type: none"> not remediated although this would be desirable 	4 <input type="radio"/>
Before a new pig phase commences:	
<ul style="list-style-type: none"> pasture or a forage crop is well established over the whole paddock area 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> pasture or a forage crop is not well established over the whole paddock area 	4 <input type="radio"/>
OVERALL RATING	
1	

A3.6 Risk Assessment – Odour, Dust and Noise

Rating Criteria	Rating
Odour, dust and noise are:	
<ul style="list-style-type: none"> minimised by maintaining clean dry bedding in shelters; promptly remediating and/or replacing wallows and other wet areas if they become odorous; ensuring noisy activities only occur during the day except under exceptional circumstances; fitting manufacture-specified exhaust systems to all mechanical equipment and vehicles used on-farm; and ensuring dust does not reach nuisance levels off-farm 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> managed by maintaining clean dry bedding in shelters; remediating and/or replacing wallows and other wet areas if they become odorous; scheduling noisy activities to occur during the day; and fitting manufacture-specified exhaust systems to all vehicles used on-farm 	2 <input type="radio"/>
<ul style="list-style-type: none"> not actively managed 	4 <input type="radio"/>
There is:	
<ul style="list-style-type: none"> a complaints management procedure in place that includes complaints recording, investigation and corrective action, along with appropriate consultation 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> a complaints management procedure in place that includes complaints recording, investigation and corrective action 	2 <input type="radio"/>
<ul style="list-style-type: none"> no complaints management procedure in place or the procedure that is in place does not include complaints recording, investigation and corrective action 	4 <input type="radio"/>
Mediation is:	
<ul style="list-style-type: none"> used to try to settle disputes with neighbours (or would be if there were issues) 	1 <input checked="" type="radio"/>
<ul style="list-style-type: none"> generally used to try to settle disputes with neighbours (or would be if there were issues) 	2 <input type="radio"/>
<ul style="list-style-type: none"> not generally used to try to settle disputes with neighbours 	4 <input type="radio"/>
OVERALL RATING	1 <input type="text"/>

A3 DESIGN AND OPERATION (RISK ASSESSMENT)



A4 Overall Risk Assessment

The third step in evaluating the likelihood of an environmental impact is assessment of the combined effect of resource vulnerability and the design and operation risk. The two-dimensional matrix below is used for this step.

The overall risk can be used to help decide the action to be taken. A low overall rating would not trigger any action. A medium overall rating may trigger some action. A high overall rating would trigger some action. The design and/or operation of the piggery should be examined to decide the most appropriate action, which may take the form of environmental improvements or monitoring. Examining the reasons for vulnerability and risk ratings listed in the applicable tables can assist in deciding the action to be taken.

A4.1 Environmental Risk Assessment Matrix

The environmental risk assessment matrix should be completed by multiplying the vulnerability rating designated for each natural resource and amenity category rating by the risk rating designated for each design and operation factor. The shaded cells in the table should not be filled in.

Natural resource vulnerability		Combined Risk Rating			
		Soils of pig paddocks	Ground-water quality and availability	Surface quality and availability	Community amenity
Insert vulnerability ratings (1-4) >		4	4	4	1
Design and Operation Risk	Insert rating (1-4) for each design and operation item in this column	In the cells below, enter the product of the Natural Resource Vulnerability Rating and the Design and Operation Risk Rating. For instance, if the “soils of pig paddocks” has a vulnerability rating of 2 and “nutrient budgeting and monitoring” has a risk rating of 3, enter 6 (2X3). Do not complete shaded cells.			
Nutrient Budgeting and Monitoring	1	4	4	4	
Distribution of Manure Nutrients	1	4	4	4	
Nutrient Loss Prevention	1	4		4	1
Mortalities Management	1	4	4	4	1
Paddock Rehabilitation	1	4			
Odour, Dust and Noise	1				1

A combined rating of 1-4 means a low risk and would not trigger any action.
A combined rating of 5-11 means a medium risk and may trigger explanation or action.
A combined rating of 12-16 means a high risk and would trigger explanation or action.


For proposed piggeries, actions might involve choosing a better site for piggery facilities or raising the standard of design. For existing piggeries, actions would be to improve the environmental performance through better design, management or monitoring. Refer to the example that follows.



Appendix B. Caves Road Farms – Standard Operating Procedure - Rotational Outdoor Piggery

1323 - Caves Road Farms DA- Supporting Information - Final V5.docx

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

	DOC: 1001	Standard Operation Procedure (SOP)	Original Issue Date: 01/2/22
	ROTATIONAL OUTDOOR PIGGERY		
			VERSION #: 1
	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 24/2/22

1. Rotational Outdoor Piggery.

The rotational outdoor piggery will be operated in accordance with this Standard Operating Procedures (SOP). All personnel employed to undertake works at the farm will undertake an induction to define expected operational standards.

2. Daily Site Walkover and Monitoring

A daily site walkover will be undertaken (7 days/week) with the following assessments completed. In the event that assessment concludes that the operational standard is not being met, the relevant actions will be implemented.

- Ensure suitable feed and water available for all livestock ([Action 1](#))
- All fences in good order ([Action 2](#))
- Removal of mortalities ([Action 3](#))
- Assess condition of groundcover within ROP areas ([Action 4](#))
- Identification of any surface runoff or wet areas within ROPs following rainfall ([Action 5](#))

Additional site walkovers will be undertaken following any rainfall event that exceeds 5mm.

3. Rotation of Shelters


Shelters onsite will be moved in accordance with:

- Farrowing huts (10) - moved to new ground between farrowing events (approx. every 4 weeks)
- Gestating sow (including gilts and boar) shelters (2) - moved to new ground every 6 weeks
- Grower shelters (6) – moved to new ground following a 6 week active pig phase.
- All spent bedding immediately loaded into available trailers following the relocation of shelters.

4. Rotation of ROP Areas

At the end of a 2 year period – the active pig area will be moved to a new area of the farm within the approved rotational area.

SHIRE OF AUGUSTA MARGARET RIVER
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	DOC: 1001	Standard Operation Procedure (SOP)	Original Issue Date: 01/2/22
	ROTATIONAL OUTDOOR PIGGERY		
			VERSION #: 1
	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 24/2/22

5. Cultivation of ROP Areas

Areas previously used as a ROP will be sown for fodder cultivation at the earliest opportunity.


6. Environmental Monitoring

Soil sampling and groundwater monitoring will occur in March and September of each year in accordance with Table 1. Environmental monitoring will be undertaken by experienced environmental professionals.

Table 1. Environmental monitoring program

Monitoring	Frequency	Locations	Parameters
Soil Sampling	<ul style="list-style-type: none"> • Annual monitoring 	<ul style="list-style-type: none"> • Minimum of three (3) samples collected as composite from active ROP area. • Minimum of three (3) samples collected as composite from ROP area not in use. 	<ul style="list-style-type: none"> • pH • EC_{se} • Nitrate-nitrogen • Colwell P • Potassium • Organic Carbon • Exchangeable Cations and CEC (calcium, sodium, potassium, magnesium)
Groundwater Monitoring	Biannually (March and September)	MB1 – MB5: Five groundwater bores located onsite	<ul style="list-style-type: none"> • pH • EC • TDS • Total Nitrogen • NO_x as N • NH₃/NH₄ as N • Total Phosphorous

SHIRE OF AUGUSTA MARGARET RIVER
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	DOC: 1001	Standard Operation Procedure (SOP)	Original Issue Date: 01/2/22
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			VERSION #: 1
	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 24/2/22

Action 1. Food and Water

Make available suitable food and water. Note issue in daily log.

Action 2. Fencing

Immediately rectify fencing issue if possible. Note issue in daily log.

Action 3. Mortalities

Immediately remove mortality to cold storage. Note number and class of mortality in daily log.

Action 4. Ground Cover

Assess level of groundcovers within active pig areas. If considered below expected operational standard, note which shelters and notify farm manager. Pigs will be relocated from shelter within 48 hours. Note issue in daily log.

Action 5. Surface Condition

Identify any ground within the active pig areas that is potentially becoming waterlogged following rain. If surface condition is considered below expected operational standard, note which shelters and notify farm manager. Pigs will be relocated from this shelter within 48 hours.

Identify any clean surface water runoff that is entering the active pig areas. If identified, construct a temporary earth bund onsite to divert water around the active pig areas, or alternatively more pigs to new area within 48 hours.

Note issue in daily log.



Appendix C. Pig Herd Composition – Pigbal v4

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

5. Herd details

Pig class	Pigs accommodated in piggery			Shed type (waste management system)	Pig age			Pig live weight			SPU factor Live weight regression (SPU, pig ⁻¹)	No of SPUs Live weight regression (SPU)
	Calculated values	Entered values	Adopted values		In	Out	Average	In	Out	Average		
	(pigs, stage ⁻¹)	(pigs, stage ⁻¹)	(pigs, stage ⁻¹)		(weeks)	(weeks)	(weeks)	(kg, pig ⁻¹)	(kg, pig ⁻¹)	(kg, pig ⁻¹)		
Gilts	1		1	Deep litter	24.0	30.0	27.0	115.2	160.0	137.6	1.80	2
Boars	1		1	Deep litter	24.0	128.3	76.1	115.2	300.0	207.6	1.60	2
Gestating sows	13		13	Deep litter				160.0	215.0	187.5	1.60	20
Lactating sows	2		2	Deep litter				215.0	160.0	187.5	2.50	6
Suckers	16		16	Deep litter	0.0	3.7	1.9	1.4	6.7	4.1	0.10	2
Weaner	26		26	Deep litter	3.7	10.0	6.9	6.7	30.0	18.4	0.51	13
Porker	16		16	Deep litter	10.0	14.0	12.0	30.0	55.0	42.5	1.08	18
Grower	16		16	Deep litter	14.0	18.0	16.0	55.0	80.0	67.5	1.48	24
Finisher	16		16	Deep litter	18.0	22.0	20.0	80.0	90.0	85.0	1.66	27
Unallocated	0		0		0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
Unallocated	0		0		0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
Totals:	107		107									112

Pig class	Pigs purchased		Pig mortalities		Pigs sold			Pigs in piggery (kg live weight)
	Number	Mass	Number	Mass	Number	Live weight	Dressed weight	
	(pigs, yr ⁻¹)	(kg, yr ⁻¹)	(pigs, yr ⁻¹)	(kg, yr ⁻¹)	(pigs, yr ⁻¹)	(kg, yr ⁻¹)	(kg, yr ⁻¹)	
Gilts	4	492	0	9	1	168	128	137
Boars	0	29	0	8	0	143	108	208
Gestating sows			1	100	7	1,080	821	2,346
Lactating sows			0	27			0	465
Suckers			21	87	0	0	0	65
Weaner	0	0	3	55	0	0	0	475
Porker	0	0	2	79	0	0	0	692
Grower	0	0	2	125	0	0	0	1,090
Finisher	0	0	2	156	208	18,697	14,210	1,361
Unallocated	0	0	0	0	0	0	0	0
Unallocated	0	0	0	0	0	0	0	0
Totals:	5	521	31	644	216	20,088	15,267	6,839



Appendix D. Soil Capacity Investigation, Soil Dynamics, 2021

Supplied separately



Appendix E. Laboratory Certificate, December 2021

1323 - Caves Road Farms DA- Supporting Information - Final V5.docx

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

Analysis Results

CSBP Soil and Plant Laboratory



97414
Integrity Ag & Environment

Lab No		8CS21103	8CS21104	8CS21105	8CS21106	8CS21107	8CS21108	8CS21109	8CS21110
Name		CRF-S1	CRF-S1	CRF-S2	CRF-S2	CRF-S3	CRF-S3	CRF-S4	CRF-S4
Code		0.1	0.4	0.1	0.4	0.1	0.4	0.1	0.4
Customer		Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment	Integrity Ag & Environment
Depth		0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10
Colour		GRBR	BRGR	BRBK	GRYW	GRBR	YWGR	GRBR	BR
Gravel	%	5	35-40	5	5-10	5	0	5	25-30
Texture		1.0	1.0	2.5	3.0	1.0	1.5	1.5	2.5
Ammonium Nitrogen	mg/kg	10	1	8	< 1	< 1	< 1	9	4
Nitrate Nitrogen	mg/kg	2	< 1	80	10	7	< 1	4	3
Phosphorus Colwell	mg/kg	39	16	81	3	43	16	50	9
Potassium Colwell	mg/kg	78	26	103	45	106	89	290	52
Sulfur	mg/kg	8.4	3.9	58.2	171.7	8.6	26.6	7.3	29.9
Organic Carbon	%	4.97	1.78	5.60	0.61	5.12	1.01	6.01	1.91
Conductivity	dS/m	0.077	0.029	0.323	0.192	0.102	0.052	0.132	0.070
pH Level (CaCl2)		4.7	4.9	4.9	5.3	5.7	5.2	5.7	5.3
pH Level (H2O)		5.9	6.1	5.6	6.2	6.5	6.2	6.5	6.4
PBI		189.4	131.4	408.6	532.1	246.4	171.3	619.0	831.9

CSBP Lab. Extract Value.



Appendix F. Composting Collection Commitment, Soil Dynamics

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SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023



Appendix G. APL Nutrient Balance Calculator (excluding export of spent bedding offsite)

PIGGERY DESCRIPTION			
Name of paddock area e.g. dry sows	All		
Total paddock (m2)	180000	18 ha	
Length of pig phase on area (months)	24		
Bedding type	Wheat straw		
Total bedding use for type of paddock (t/yr)	40		
Bedding management	Taken from paddock for reuse elsewhere off-farm		

PIG CLASS	No. of Pigs	No. of SPU
Gilt	1	1.8
Boars	1	1.6
Gestating sows	13	20.8
Lactating sows	2	5
Suckers	16	1.6
Weaners	26	13
Growers	32	32
Finishers	16	25.6
Total	107	101.4

Paddock Management - Pig Phase (* excludes suckers)		
Total number of pigs in paddock*	107	
Stocking density (pig/ha)*	12	
Stocking density (SPU/ha)	6	

NUTRIENTS ADDED OVER PIG PHASE			
	Nitrogen (kg)	Phosphorus (kg)	Potassium (kg)
Manure	1895	615	496
Bedding	416	32	1008
Sub-Total	2311	647	1504
Losses through bedding management (kg)	416	32	1008
Remaining after losses by bedding management (kg)	1895	615	496
Losses through volatilisation (20%)	379	0	0
Total after volatilisation losses (kg)	1516	615	496
Nutrient addition rate (kg/ha)	84	34	28

Paddock Management			
Crop / Forage / Pasture Phase	Crop Grown	Grain Yield (t DM/ha)	Hay / Straw / Silage (t DM/ha)
Year 1	Winter cereal hay	0	8
Year 2	Winter cereal hay	0	8
Year 3	Winter cereal hay	0	8
Year 4	Winter cereal hay	0	8
Year 5	Winter cereal hay	0	8
Year 6	Winter cereal hay	0	8
Year 7	Winter cereal hay	0	8
Year 8	Winter cereal hay	0	8

NUTRIENT BALANCE				
Nutrient removal by crop harvest (kg/ha)	N	P	K	
Year 1	160	24	128	
Year 2	160	24	128	
Year 3	160	24	128	
Year 4	160	24	128	
Year 5	160	24	128	
Year 6	160	24	128	
Year 7	160	24	128	
Year 8	160	24	128	

Nutrient Surplus / Deficit at End of Year (kg/ha)			
N	P	K	
-76	10	-100	
-236	-14	-228	
-396	-38	-356	
-556	-62	-484	
-716	-86	-612	
-876	-110	-740	
-1036	-134	-868	
-1196	-158	-996	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023



ORGANIC AGRONOMY – BIOSTIMULANTS - CUSTOM BLENDS - COMPOST

Anthony Quinlan B.Sc.
info@soildynamics.com.au
0429107946

January 10, 2022

Subject: Letter of support – Margaret River Venison Farm

To Whom it may concern,

I have been working with the Margaret River Venison Farm for the last year as their agronomist.

My firm specializes in implementing organic soil management with a focus on restoring natural biological cycling. This approach, when done correctly, can remove the need for chemical fertilisers and pesticide applications that have sadly become the norm in the conventional agricultural approach.

I also consult to farmers to produce high quality compost and vermicompost on a small scale for use in liquid biological extracts. These are used to inoculate degraded soils with beneficial microbes. The quality of these products is dependent on using high quality feed stocks for the compost production.

The pig manure and bedding material that will be generated from the grow out program that is occurring on the Caved rd property will be an ideal input to the above-mentioned compost operations I am involved with.

All of these compost operations are at present located on private farms and are well below the threshold annual production capacity that require approval. These are regulated under the *Environmental Protection Act 1986* and *Environmental Protection Regulations 1987*. Facilities with production capacity >1000ton annually only require regulation. All of the sites we are involved with are <100 tons per annum.

Even though the amount of waste to be generated from the caves rd. site is relatively small (<50tons), Soil Dynamics will be happy to collect this material for inclusion into these specialty products.

Please feel free to contact me if you have any queries.

Yours sincerely,

Anthony Quinlan





Appendix H. Hydrological Assessment, SW Hydrology, January 2022

Supplied separately



Appendix I. Tallowman – Mortalities Processing Commitment

1323 - Caves Road Farms DA- Supporting Information - Final V5.docx

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023



A DIVISION OF
DERBY INDUSTRIES PTY LTD
INCORPORATED IN WESTERN AUSTRALIA

A.C.N. 009 033 612
ABN 86 009 033 612

Lot 115, Lakes Road, Hazelmere, Western Australia.6055
Telephone: (08) 9374 9600 Fax: (08) 9274 3637
Email: talloman@craigmostyn.com.au

26th January 2022

Caves Road Farms
ATTN: Chad Mitchelmore
Farm Manager
5103 Caves Road
Cowaramup WA 6284

Dear Chad,

This letter is to confirm that Derby Industries Pty Ltd trading as Talloman can collect and dispose of pig mortalities from Caves Road Farms, provided the mortalities are collected on the day of occurrence or stored chilled or frozen for collection at a later date.

These will be processed at our rendering facility at Lot 115 Lakes Road, Hazelmere which operates under the following registrations and licences:

- Australia Renderers Association Accreditation No. 7
- AQIS Registration No. 7139
- DWER Environmental Licence L4297/1983/17

Please note we will require at least 24hours notification prior to collection.


Kind regards,

Ben Baron
General Manager Rendering and Protein



Appendix J. Caves Road Farms – Biosecurity Plan

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

	DOC: 1001	Biosecurity Plan	Original Issue Date: 01/2/22
	ROTATIONAL OUTDOOR PIGGERY		
	<i>Content based on: APIQ Reference Manual V5.0_8_2021</i>		VERSION #: Draft
	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 8/4/2022

Caves Road Farms – Biosecurity Plan

The Australian pork industry has a well-earned reputation as a supplier of safe, wholesome pork. The industry has comprehensive systems in place to ensure the quality of Australian pork, and to prevent the risk of serious quality or safety problems, as well as outbreaks of serious pig diseases. The key elements of these systems, as far as biosecurity is concerned, are:

- The Australian Pork Industry National Biosecurity Manual for Pork Production version 2.146 which describes a program of risk reduction measures to reduce the risk of entry and spread of emergency animal diseases, and forms the basis of this biosecurity plan.
- PorkSAFE, the industry's emergency management plan, is structured to reflect the Government's Incident Control System (ICS). The ICS is a way of managing emergency situations using a systematic approach that integrates all the activities that are required. The type and scale of the incident does not affect the principles of the system. The ICS can be used in a wide range of situations that may impact on the industry. PorkSAFE contains industry agreed guidelines to assist in responding to a crisis event, and would be utilised in association with relevant Federal and State response plans, which cover incidents from paddock to plate. In many cases, PorkSAFE activities will be in support of other broader government plans, through the provision of advice and input to the lead government agency on industry aspects and feedback of information to industry.
- The AUSVETPLAN contains detailed information about various animal diseases, how to deal with them and how to prevent them from spreading further. The AUSVETPLAN is developed under the auspices of Animal Health Australia (AHA) and is jointly endorsed by the Federal and State governments and impacted industry. They describe specific activities to be undertaken in the event of an emergency disease outbreak, and form the basis for State and Federal responses.

1.0 On-farm Systems to Minimise the Risk of Contamination or Spread of Disease


1.1 Prohibition of Swill Feeding for Pigs

Pigs must not be fed prohibited pig feed; commonly referred to as swill. Swill feeding is illegal in Australia because of the serious risk of introducing diseases that are not present here. Swill feeding caused the 2001 outbreak of Foot and Mouth Disease (FMD) in the United Kingdom. National standards require that pigs are not fed prohibited pig feed i.e. swill or any food scraps that contain meat or other matter from animals, or any other substance prohibited by State or Territory legislation. Running a few pigs and using swill as a cheap source of stock feed is an illegal and dangerous practice that puts our national agricultural industries at risk.

Swill is defined as material of a mammalian origin, not including milk or milk by-products and includes anything which has come into contact with this material. A common example of swill is table scraps. Diseases that can be introduced as a consequence of swill feeding include:

- Foot and Mouth Disease (FMD).

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- African Swine Fever.
- Classical Swine Fever (Hog Cholera).
- Aujeszky's Disease.
- Swine Vesicular Disease.
- Vesicular Stomatitis.
- Transmissible Gastroenteritis.

Disease causing agents could be found even in small amounts of meat or dairy product and, if included in swill and fed to pigs, could establish an exotic disease in our livestock. Many viruses are highly resistant to chilling, freezing and curing. Experience has shown that even boiling swill may not destroy all disease organisms. Once a disease agent is introduced in this way, it could spread rapidly amongst different types of livestock.

If an exotic disease is detected in Australia, then countries importing our livestock products would close their markets and ban our product until freedom from the disease is proven. Regaining markets is then a difficult and long-term process.


A person must not feed swill to pigs or possess swill for the purpose of feeding it to pigs. This means that food or food scraps containing, or contaminated by, animal matter from any source, such as leftovers from restaurants, hospitals, supermarkets and domestic households or from visitors' lunches, must not be fed to any livestock. A person must not supply swill to another person for the purpose of feeding it to pigs. A business owner who permits another person to collect food wastes containing, or contaminated by, animal matter from their business for feeding to animals, could be prosecuted.

Any material from animal carcasses or meat must not be fed to pigs. Vegetables and vegetable matter served on the same plate as meat, or discarded into the same containers as animal matter, are considered to be contaminated materials and should not be fed to pigs. Vegetable oils that have been used to cook meats could harbour viruses in food particles, and are regarded under the law as animal matter. All commercially prepared by-product meals of animal origin, such as blood meal, meat and bone meal, meat meal, bone meal, fish meal and poultry meal, cannot be fed to ruminants (cattle, sheep, goats etc.). However, these meals can be fed to non-ruminants, such as pigs, where they have been sourced from a reputable supplier and are approved for pig feed.

Milk and milk products of Australian origin, which are processed in Australia (such as calf milk powder) or legally imported dairy products, may be fed to pigs. It is also permissible to feed rendered animal fat and gelatin produced by licensed renderers to animals. Grain, bread and vegetable waste from bakeries and markets may be fed to livestock, provided they have not come in to contact with animal matter or animal-contaminated matter at any time.

A person must take reasonable precautions to prevent animals from having access to swill materials. Discarding contaminated food waste into the environment where stock can feed on it is prohibited, including feral animals such as pigs. Disposal into waste bins or securely fenced dumps or compost heaps are appropriate ways of dealing with food wastes contaminated by animal matter.

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1.2 Hygiene Practices and Equipment

Biosecurity procedures provide for mandatory cleaning and disinfection of any equipment that is moved by consultants from farm-to-farm. Equipment used by consultants and veterinarians can carry disease from one (1) farm to another. This includes:

- Snares or ultrasound pregnancy detection equipment—these should be disinfected between visits.
- Syringes used for injection or blood collection—these should remain on the farm and be destroyed after use.
- Post-mortem implements used by veterinarians—these should remain off-farm or be used in areas not in direct contact with the main herd.
- Other service providers and contractors should take care if moving equipment and materials from farm-to-farm and should adhere to the biosecurity requirements of the property.

1.3 Truck Cleanliness

Trucks collecting or delivering pigs must comply with approved transport standards, and specifically from a biosecurity point of view, must comply in regard to truck cleanliness and disinfection.

1.4 Controlled Entrance for Visitors and Staff

A piggery is required to have a controlled entrance through which visitors are admitted. This needs to be away from the pig herds so producers can ensure that visitors meet their biosecurity conditions prior to any contact with the pigs or their living environment.

People can carry infectious agents on contaminated boots and clothes and their skin can be contaminated. However, basic common sense and personal hygiene, together with a change to farm boots and clothes, is sufficient to reduce the movement of disease between pig farms to very low risk levels. Research shows that hand-washing can reduce bacteria and that this is increased with hand drying.


As a minimum, it is important to provide boots and hand-washing facilities for all visitors, to reduce the risk of disease or pathogen transmission. Footbaths have been shown to be of limited value in eliminating bacterial contamination. For them to provide any useful degree of protection, boots must be free of organic matter and spend in excess of five (5) minutes in the disinfectant solution. For most farms, it will be enough for the farm boots to be clean.

Signage and locked doors and gates are measures that can take to discourage pig and feed truck drivers, or unauthorised visitors, from entering piggery area.

Clearly designated clean and dirty areas reinforce the biosecurity principles associated with people movement. Designated areas permit people to remove their off-farm 'dirty' footwear on one (1) side of a barrier, and put on 'clean' farm boots and clothing and wash their hands on the other side.

All sites must have written biosecurity protocols and maintain a visitor log which records the name, date and time of contact with pigs (prior to entering the farm), contact phone number, reason for

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access being given and who granted access. Small Holders maintain this record in their Diary. This allows traceback in the event of a disease. Recent experiences with the Swine Influenza virus suggest that this rule should also be extended to include contact with poultry.

The familiarity breeds contempt phenomenon means that staff movement may be as much a risk as visitor movement. The farm biosecurity program should be designed to keep piggery staff aware of the risks entailed in off-site contact with other pigs and poultry. The rules for staff entry should be similar to the rules for visitors. Staff exit is as important as entry, for example, 'clean' clothing should not be worn into the 'dirty' area, or into town to do a few jobs. It is a requirement that all staff sign a Personnel Biosecurity Declaration that confirms they are aware of the piggery biosecurity procedures and will adhere to them.

Transmission of Swine Influenza virus to human caretakers, despite the use of biosecure containment practices (coveralls, boots, goggles, gloves, hairnets and dust masks), has been recorded, as has infection of pigs by infected pig workers. Therefore, a farm policy for staff and visitors with influenza is now a necessary adjunct to biosecurity requirements. Producers need to be vigilant with on-farm biosecurity to protect their pigs against strains of influenza. It is recommended that the following be implemented on farm:

- i) Establish and enforce strict sick leave policies for on-farm workers with influenza like illness.
- ii) Influenza vaccinations for workers.

1.5 Movement Records


Records should be kept of the movements of animals, people and vehicles onto and off the farm; this will assist in tracing pig/people movements in the event of an emergency disease outbreak or food safety trace-back. This information is vital to ensure that the disease or source of product contamination is rapidly and effectively tracked and contained. Movement records will be recorded in the Site Notebook.

1.6 Introducing New Stock

Maintaining a closed herd is the safest biosecurity measure, but not always possible. Purchased pigs should be sourced from piggeries with a known and demonstrable health status. If it is necessary to change suppliers, use a careful process of matching health status, or reduce the risk by increasing disease prevention strategies. Ask vendors for evidence of the health status of their herd and when checks have been done, also:

- Discuss the health status of suppliers with a veterinary adviser.
- Buy unmated pigs in preference to pregnant sows or mated boars that have had the opportunity to contract a venereal disease.
- Inspect stock on arrival and record all pig introductions to enable trace-back.
- Incoming stock must have been bred and raised in accordance with the APIQP® standards.
- The quarantine period should be the minimum period specified in the piggery's on-farm Biosecurity Plan and/or Herd Health Plan, developed in consultation with the farm's veterinarian, or at least 30 days if no veterinary direction to the contrary has been obtained.

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A basic quarantine facility located away from the herd, and a simple introduction protocol for new stock, will protect the herd against disease that could be introduced by incoming breeding stock. A quarantine facility must provide:

- A. Inability for introduced pigs to co-mingle with existing pigs;
- B. Suitable buffer distances to prevent the spread of contamination by aerosol; and
- C. Appropriate isolation as prescribed by the veterinarians in the piggery's on farm Food Safety and Biosecurity Plan and/or Herd Health Plan

It is recommended that the quarantine facility is located at least 250 meters away from the main herd. However, a lesser distance where space is limited is still worthwhile. Isolation facilities for reduction of disease spread may include walled off areas or areas with separate ventilation within existing buildings, where it is not possible to have a standalone separate building for the purpose. Producers should seek advice from their veterinarian on the appropriate quarantine arrangements for their own individual piggery operation. Boots and overalls should be kept at the isolation facility, and staff must be vigilant in hygiene measures. Purchased pigs may be vaccinated, treated for internal and external parasites and washed down with disinfectant during this quarantine period.

While isolation facilities are useful for the introduction of new breeding stock, it is impractical to apply these conditions to farms which regularly introduce growing pigs as part of multi-site operations. However, 'all-in, all-out' systems, or other measures, should still be in place to reduce risk of disease spread between batches or groups of pigs.

1.7 Artificial Insemination


Use of AI is common in the pig industry. It reduces the need to buy-in boars with the inherent risk of introducing disease. Semen must be sourced in compliance with biosecurity requirements, and with Australian Law.

2.0 Emergency Disease Awareness

2.1 Training Staff in Emergency Disease Awareness

Piggery staff must be aware of important exotic diseases, endemic diseases and major emergency diseases. If an exotic disease occurs, individuals may not recognise which specific disease is present, but should be able to detect that something unusual is affecting the pigs and be aware of the procedures to follow when such signs are present. Outbreaks of any unusual illness in pigs must be investigated as early as possible to limit its spread. A copy of an Emergency Disease Awareness and Action poster, showing signs of important emergency diseases and contact phone numbers to report any suspicious signs will be maintained in a prominent location readily accessible and visible to all staff.

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2.2 Typical Signs of Disease in Pigs

The rapid recognition of a disease is the single most important element for prompt diagnosis and management of an emergency disease. There are various signs that would indicate the possible presence of disease in pigs, including, but not restricted to, the following:

- **Inappetance** (loss of appetite) is obvious where an animal is housed and fed as an individual, such as a sow in confinement. But in group housed animals, this is less easy to detect. The failure to eat, or a drop in feed intake in a pen of apparently normal pigs, must immediately arouse suspicions. The initial check should be for lack of water, which is usually the most important sudden cause of inappetance involving all pigs in a group. If the water supply is normal, look for signs of disease.
- **Listlessness or a dull appearance** of the pig will be quickly detected by a good stockperson as early signs of illness.
- **Shivering** and raising of hair over the body is an important feature of disease, and is one (1) of the very early signs of streptococcal meningitis or joint infections in the sucking pig. Producers should look for this sign when examining each individual in the litter. A pig lying on its belly and shivering with its hair-on-end, compared to the rest of the group, may be suffering from a generalised septicaemia (bacteria in the blood stream).
- **Loss of body weight** is a first indication of inappetance or dehydration due to diarrhoea or pneumonia. • Discharges from the nose or eyes indicate an upper respiratory infection.
- **Excess salivation** from the mouth may indicate an exotic disease, such as vesicular disease.
- **Vulva discharge** in sows could indicate Vaginitis, Cystitis, Pyelonephritis or Endometritis.
- Faecal changes can indicate a wide range of diseases, but sloppy faeces can also be quite normal. Look for signs of mucus or blood indicative of Swine Dysentery, Salmonella infections, Gastric Ulceration or Proliferative Haemorrhagic Enteropathy. Constipation may be important in the development of Udder Oedema and Agalactia at farrowing.
- **Vomiting** can be a sign of diseases such as Transmissible Gastro-Enteritis, or in individual pigs it may indicate Gastric Ulceration. In the sucking pig, Gastro-Enteritis associated with E. coli infections is often seen. Injections with long-acting penicillin may also cause pigs to vomit, as can mycotoxins in the feed.
- **Skin changes** help in identifying diseases, typified by acute or chronic lesions of mange and lice, although the latter are now uncommon. Erysipelas may not be evident by sight, but running the flat of the hand over the skin will indicate tell-tale lesions of raised areas. A blueing of the extremities could indicate acute viral infections, acute bacterial Septicaemia or a toxic state, as seen in flu, Porcine Reproductive and Respiratory Syndrome (PRRS) infections or acute Mastitis and Metritis. Acute Pneumonia or pneumonia associated with heart sac infection can give a similar picture.
- **Respiration rates** if any of the above changes have been identified, producers should cast their eye across the pen of pigs and compare the respiratory rates of both the normal and the suspect animals. Assess whether the breathing is a deep chest movement, due to consolidation of the lungs and a shortage of oxygen, or very shallow abdominal breathing indicative of pleurisy and pain.

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Additionally, the circumstances surrounding the death of a pig are an important observation, especially when backed-up by post-mortem examination. The timing and place where pigs die in a herd, relative to clinical observations, can often help in identifying and understanding a problem.

Being vigilant for signs of disease in pigs is not only important as an earlier indicator of herd health problems and/or possible emergency disease outbreaks, but also is important in order to attend to the welfare of the animals concerned.

Pigs with signs of disease should be isolated from herd mates wherever possible, given appropriate treatment and monitored closely to see how they respond. In cases where the pig is judged to be in severe pain and distress and/or the disease condition is considered incurable, such animals must be promptly and properly euthanised. The APL publication Care of the Compromised Pig Manual (First edition, 2011)52, provides useful additional information on this topic.

There are a number of diseases, known as endemic diseases that exist within Australia's pig population. For instance, the bacteria causing Erysipelas and Leptospirosis are widespread amongst the pig population, but can be adequately controlled by routine vaccination programs. Both of these organisms can infect humans (zoonotic diseases), causing serious illness in the case of Leptospirosis.

The costs of these diseases to the producer and the industry will vary from farm to farm, and are dependent on the strain involved. Increased costs may result from medication or vaccination costs, including labour for treatments, and the effects on growth rate and individual animal performance. Endemic diseases can impact on the profitability of piggeries in several ways, including:

- Mortalities.
- Reduced feed efficiency and growth rates.
- Carcass condemnation.
- Reduced reproductive rates.
- Increased costs of medication.
- Increased time commitment in treatment, feed medication, animal isolation and disposal.


It is therefore important to control the spread of endemic diseases within the industry and prevent incursion of any new diseases onto farms, wherever possible. Maintaining sound on-farm biosecurity practices, and staff vigilance to detect any signs of new or unusual disease patterns, are key aspects of on-farm biosecurity management systems.

2.3 Responding to an Emergency Disease Outbreak

In the case of an emergency disease outbreak, the AUSVETPLAN will be used to address the emergency. This plan involves authorities and emergency management organisations at a national, State/Territory and district level.

If a producer notices unusual disease symptoms, abnormal behaviour or unexpected deaths with their pigs, they, or their staff, should immediately call a veterinarian, stock inspector, or the **Emergency Disease Watch Hotline on 1800 675 888** and report the problem to **APIQM on 1800 789 099**.

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The farm **Emergency Animal Disease Contingency Plan** and contingency procedures in place to provide for stock movement restrictions in the event of an Emergency Animal Disease will be implemented. This must include documenting the maximum animal movement restriction period that the farm can adequately manage, in number of days.

2.4 Isolation Practices During Endemic Disease Outbreaks


If an outbreak of disease occurs in a herd, assuming it is an endemic disease (for example, already present in Australia) the producer's veterinarian will be their best and primary source of advice on how to manage it. This may include measures to isolate or confine affected animals or groups of animals, preventive vaccination or medication measures for at-risk stock and internal hygiene measures to limit disease spread.



Appendix K. Caves Road Farms – Emergency Animal Disease Plan

1323 - Caves Road Farms DA- Supporting Information - Final V5.docx

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Caves Road Farms – Emergency Animal Disease (EAD) Plan

The likelihood of emergency animal diseases (EADs) is low but when outbreaks do occur, they have a serious impact on the Australian pork industry supply chain from farm to abattoir. An EAD could result in an immediate reduction in export markets and restrictions on livestock movements, and (in the case of an FMD outbreak) a national livestock ‘standstill’ for a period of time. Infected or at-risk properties may also require livestock to be culled to help stop the disease from spreading.

Following the detection and confirmation of an EAD, a range of movement restrictions will be implemented. These restrictions may be widespread (e.g. a national livestock standstill) or more localised in the form of declared or quarantine areas (called restricted and control areas) around infected and at-risk premises. A national livestock standstill is a publicly announced ban on all movement of susceptible animals, whether confirmed as diseased or not, and pork/pork producers. This type of standstill is declared by authorities to allow them to assess where the disease already is without the situation getting worse through continuing movements. It is a criminal offence to move stock and/or pork or pork products during a livestock standstill. In addition, governments may also recall all pork and pork products from regions and/or premises where an EAD has been suspected and/or confirmed.

Individual premises may also be placed in quarantine, preventing any movements of pigs, people and vehicles, in or out of the premises. The restrictions may affect a property’s ability to sell or move livestock, products, feed and supplies. Visits by people and vehicles may be restricted or may require strict biosecurity protocols to be observed (e.g. use of personal protective equipment or vehicle wash downs). Depending on the type of disease and the response policy, livestock from affected or at-risk properties may also be subjected to humane culling operations. Compensation is payable according to the formula set out in the AUSVETPLAN Valuation and Compensation Manual¹, and enshrined in state legislation, or as agreed in the response plan that is approved by the National Management Group.² Depending on the disease, livestock may be vaccinated rather than culled. Ongoing disease control and eradication arrangements may constrain or restrict your business activities for days, weeks, months or even years.

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Action 1 – Infection of Livestock

The best way to minimise the impact of any disease is to avoid infection in the first place by practising good biosecurity (see the links to online industry biosecurity manuals at the end of this document). However, if the disease is present in your herd, the immediate goal will be to prevent further spread with the assistance of animal health authorities. Remember that you have a legal obligation to report suspicions of notifiable diseases. This can be done by calling the Emergency Animal Disease Watch Hotline (ph. 1800 675 888), or contacting your local veterinarian or the nearest department of primary industries or agriculture. Early detection and reporting of disease is essential to minimise the impact of an EAD. Staff must also be made aware of the penalties imposed for not reporting suspicions of an EAD.


Before an outbreak
1. Train staff in disease recognition, biosecurity and hygiene, including procedures for reporting suspicions of notifiable disease (APIQ✓ [®] and Australian Pork Limited provide a range of online resources on for training and reference purposes). Develop systems that reward good biosecurity practice and make this part of the workplace culture. If there is ever any doubt whether an animal has a notifiable disease, immediately contact your veterinarian.
2. Do not allow swill feeding, or meat products near your pigs. This practice presents a serious risk for the introduction of EADs and severe penalties apply. Swill is food or food waste that contains meat or meat products from mammals, or has come into contact with meat or meat products from mammals. For further information, see the APL website at http://australianpork.com.au/industry-focus/product-
3. Chart trends in animal health and production data (such as rates of morbidity, mortality, farrowing rates, medicine usage, feed consumption and growth) to promote early detection of disease. Any significant deviations to normal rates of deaths for that category of pigs or stillbirths should be discussed with your vet.

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| <p>4. Adopt industry standards for biosecurity to protect both your herd and your business. Review farm biosecurity (around animal, people, fodder, vehicle movements and boundary fences) and consider getting the assistance of a veterinarian or biosecurity expert to develop, implement or upgrade biosecurity plans. Assess whether visitors present a risk and manage their contact with your animals.</p> |
| <p>5. Train staff so they understand the farm biosecurity plan and follow best practice for hygiene measures.</p> |
| <p>6. Ensure your biosecurity plan makes someone responsible for regular review and testing of the plan, and review of disease information.</p> |
| <p>7. Record and keep displayed (and saved in staff phones) the Emergency Animal Disease Watch Hotline number (1800 675 888) and the number of your local district or private veterinarian (or equivalent).</p> |
| <p>8. Install maps of the property and surrounding areas.</p> |
| <p>9. Display the Emergency Animal Disease Signs Poster – available at https://www.apig.com.au/resources/resources-to-support-quality-assurance-and-good-agricultural-practice/</p> |
| <p>10. Assess whether facilities to allow close inspection of pigs, such as hospital pens, are adequate</p> |
| <p>11. Assess whether infrastructure and equipment for cleaning and disinfection of equipment, materials, vehicles and buildings are adequate or need improvement, and take action. Consult the AUSVETPLAN manual on decontamination for information on requirements for different diseases.</p> |
| <p>12. Think about how you source and access disease information and consider upgrading internet access for faster download speeds, or subscribing to health news alerts on smart phones for early warning of disease outbreaks. In the event of an outbreak, the government will report information on www.outbreak.gov.au</p> |
| <p>13. Bookmark the websites listed in the reference section at the end of this document so you can quickly access a whole suite of industry and AUSVETPLAN materials providing advice on biosecurity, individual animal diseases and on procedures for valuation and compensation, humane destruction and disposal,</p> |
| <p>14. Establish and train staff to use effective quarantine (isolation) or hospital facilities on the farm for newly-arrived or sick pigs. All newly arrived pigs should be quarantined for at least six weeks</p> |


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15. Segregate vehicle access areas from areas with livestock access, if possible

<u>During an outbreak</u>
16. Check the website www.outbreak.gov.au for the latest official information.
17. Ensure your contact information is up to date with government authorities and APL. APL will be the key organisation providing information to you prior to, and during an outbreak.
18. Regularly update staff on disease control events and measures being taken on the farm.

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Action 2: Movement Restrictions and Feed Shortages

A major principle of eradicating an EAD is stopping the movements of people, animals and things that could spread the disease. Depending on proximity to the outbreak, farms may be placed under movement restrictions for months, making it very difficult to manage the supply of feed to livestock and to move animals and waste from the farm.

<u>Before an outbreak</u>
1. Make plans to deal with a backlog of pigs on your farm, including performing orderly disposal.
2. Ensure there is capacity to store large quantities of manure, effluent and bedding, or to dispose of it, on your property.
3. Consider options to deal with feed shortages (such as increasing storage and reserves through silos and silage) and identify options for obtaining feed locally.
4. Record state and territory government livestock authority contact details so that you can promptly apply for permits to move livestock if a national livestock standstill is declared.
5. Develop a plan for staying fully informed about movement restrictions during an EAD.
6. Provide negotiation training for senior managers so they are better prepared for potentially difficult conversations with suppliers, customers, neighbours and other business stakeholders.
7. Preserve valuable genetics, if scale permits, by setting up a reserve nucleus herd in a separate region.
<u>During an outbreak</u>
8. Consult your local DPI to obtain advice on the routine movement of product while minimising the spread of disease.
9. Consult state authorities for advice on how to manage the essential movements of the herd between different sections of the property during a livestock standstill as restrictions may apply.

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Action 3: Managing Disease Control Activities

EADs cause severe disruption and hardship to farms and related businesses in many ways, all of which will attract intense public scrutiny. Support from other farmers, community organisations, government agencies and other groups become very important during and after the event. Failing to ‘do the right thing’ can cause difficulties for your business, even long after the outbreak is over.


Before an outbreak
General
1. Identify (in advance) a senior staff member to oversee any actions required by the veterinary team responding to an EAD.
For surveillance, tracing and handling/vaccination
2. Plan the provision of biosecurity facilities (e.g. wash-down sites) for staff and surveillance teams.
3. Ensure facilities for inspecting, handling, testing and vaccinating animals are adequate.
4. Provide staff training in low-stress animal handling.
5. Ensure record keeping/information systems permit rapid retrieval and reporting of livestock health, movements and numbers, and include systems for sending data off-site without having to physically leave the property.
6. Save the Emergency Animal Disease Watch hotline number (1800 675 888) in your mobile phone.
7. Ensure efficient traceability systems are in place.
For valuation and compensation
8. Keep good records of purchases, sales, age of stock and pregnancies.
9. Ensure financial systems allow retrieval of relevant data.
10. Take video footage or pictures of the premises, infrastructure, equipment, livestock, landscape and other assets to support valuation.
For animal destruction and disposal
11. Consider where burial, composting and/or incineration sites could be
12. Have a control plan for feral and scavenging animals.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

	DOC: 1001	Biosecurity Plan	Original Issue Date: 01/2/22
	ROTATIONAL OUTDOOR PIGGERY		
	<i>Content based on: Preparing your business to survive an emergency animal disease outbreak. Pigs (Sept 2019)</i>		VERSION #: Draft
	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 8/4/2022

<p>13. Implement best practice policies for workplace safety. For advice, refer to the transport and slaughter section of the <i>OHS Reference Guide Australian Meat Industry</i>. Advice and training resources for developing policy are also available from state and territory workplace safety bodies.</p>
<p><i>For feral animal control</i></p>
<p>14. Monitor and control feral animal populations. Make sure perimeter fences and gates are sound.</p>
<p>15. Install rodent-proof feed storages.</p>
<p>16. Manage dead pits to prevent scavenging.</p>
<p><i>For decontamination</i></p>
<p>17. Ensure cleanliness and tidiness of the premises to facilitate rapid decontamination.</p>
<p>18. Consider where and how you could decontaminate heavy equipment (e.g. trucks) on your property. Ensure the layout and design of premises and wash-down sites are convenient and provide for rapid cleaning with minimal damage to infrastructure.</p>
<p>19. Have reserve water storage capacity in place to meet the increased clean water requirements of decontamination.</p>
<p><i>During an outbreak</i></p>
<p>20. Ensure adequate supply and storage of clean water and disinfectant for decontamination requirements.</p>
<p>21. Where possible, seal transport trucks to prevent leakage of manure or urine if animals are permitted to be transported.</p>

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Action 4: Managing Obligations and Responsibilities

EADs cause severe disruption and hardship to farms and related businesses in many ways, all of which will attract intense public scrutiny. Support from other farmers, community organisations, government agencies and other groups become very important during and after the event. Failing to ‘do the right thing’ can cause difficulties for your business, even long after the outbreak is over.

<u>Before an outbreak</u>
1. Create a strong culture of best practice for humane slaughter, carcass disposal and stock handling.
2. Ensure staff are aware of, and adhere to, codes of practice for animal welfare, especially sections relating to humane killing and animal handling
<u>During an outbreak</u>
3. Ensure staff cooperation with response teams.
4. Work with industry organisations and support industry spokespeople by directing media to a central point to safeguard the reputation of your business and the industry.
5. Manage staff stress and ensure workplace safety standards are maintained.
6. Participate in community organisations such as the local fire brigade and state emergency services, or service organisations such as the CWA, Rotary and Red Cross, that provide emergency assistance to farmers and others.
7. Ensure good working relationships with government animal health, environmental and work safety authorities and Industry Liaison Officers. Have them advise and assist the business to operate within the law.
8. If practical, make staff available to assist other businesses with disease control activities.

SHIRE OF AUGUSTA MARGARET RIVER
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	DOC: 1001	Biosecurity Plan	Original Issue Date: 01/2/22
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	Owned by: Farm Manager	Authorised by: Managing Director	Current Issue Date: 8/4/2022

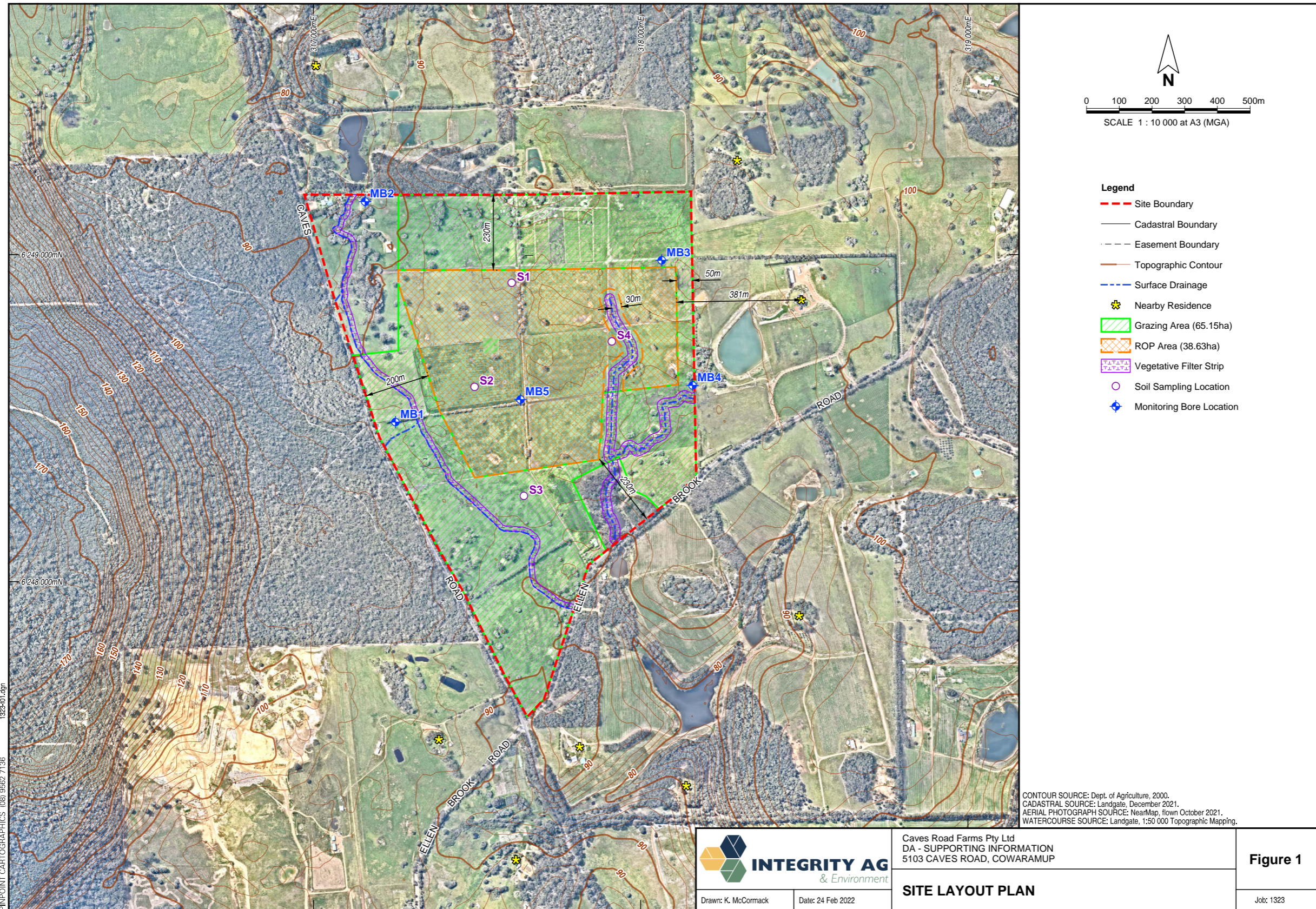
Industry resources

- Australian Pork Industry Biosecurity resources <https://australianpork.com.au/industry-focus/biosecurity/>
- Australian Pork Industry Quality Assurance Program Standards Manual: <https://www.apiq.com.au/standards/standards-manual>
- Australian Pork Industry Quality Assurance Program **Small Holder** Manual
- Farm Biosecurity for Livestock Producers:
- Farm Biosecurity Website <https://www.farmbiosecurity.com.au/>
- National Farm Biosecurity Manual for Pork Production <https://www.farmbiosecurity.com.au/wp-content/uploads/2019/03/National-Farm-Biosecurity-Manual-for-Pork-Production.pdf>
- Occupational Health and Safety Reference Guide Australian Meat Industry:
- <http://mintrac-whs.com.au/wp-content/uploads/OHS-Reference-Guide-Part4.pdf>

AUSVETPLAN Documents

- Disease specific documents, operational manuals, enterprise manuals and management manuals are all contained at <https://www.animalhealthaustralia.com.au/our-publications/ausvetplan-manuals-and-documents/>
- Animal Health Australia (2011). Enterprise manual: Pig industry (Version 3.0)
- Operational Procedure Manuals
- Disease Strategies

**And remember, if you spot suspicious disease symptoms,
contact the Emergency Animal Disease Watch Hotline:
1800 675 888**



SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

P221666 – PROPOSED ROTATIONAL OUTDOOR PIGGERY (ROP) – 5103 (Lot 201, 202 & 203) CAVES ROAD, COWARAMUP			
	POINTS RAISED BY SUBMISSIONS	APPLICANT'S RESPONSE (7/9/2022)	SHIRE OFFICER'S RESPONSE
	Concern with water impacts		
1	Concern the ROP would pollute the ground water	<p>The scale of the 15 sow 'farrow to finish' Rotational Outdoor Piggery (ROP) is very small with a maximum design capacity of 107 pigs (at different ages) on the 120ha site at any given time. The high welfare free range and sustainable operation will produce approximately 240 pigs per year or less than 5 pigs/week which will be sold at the Farm Shop after being processed at an accredited off-site abattoir.</p> <p>The maximum pig liveweight mass will be approximately 4.4T at any given point which is equivalent to approximately 9 cows (500kg liveweight). The applicant has been able to quantify the nutrient load and scientifically show that the operation will not generate excess nutrients and in fact generate less nutrients than other agricultural activities in the area. Preventing the ROP from operating based on the nutrient load would logically mean that almost all agricultural activity in the region would need to discontinue.</p> <p>The nutrient application rate through the active pig phase (max 2 years) is 12 kg/ha/yr of nitrogen and 8 kg/ha/yr of phosphorus to the soil. The area will then be left for 2 years with no nutrient application to ensure full utilisation of the nutrients through the active cultivation of fodder crops. This is a very low level of nutrient application compared with other agricultural operations and as such a very low risk of runoff from the site containing elevated levels of nutrients. Typical broadacre crops (ie wheat/barley/oats for cereals, silage or hay) have a nutrient application in the order of 100 kg/ha/yr of nitrogen and 20 kg/ha/yr of phosphorus in the form of highly soluble synthetic fertiliser. Such operations would have a significantly higher risk of discharge of nutrients to the environment. As comparison, a number of other nutrient application rates are referenced:</p> <ul style="list-style-type: none"> • Strawberries have recommended nutrient applications of 450 kg/ha/yr of nitrogen and 100 kg/ha/yr of phosphorus (https://www.agric.wa.gov.au/strawberries/fertilising-your-strawberry-crop), • Dairy pasture nitrogen nutrient application of 365 to 730 kg/ha/yr (https://www.agric.wa.gov.au/soil-nutrients/nitrogen-high-rainfall-pastures-western-australia) 	Noted. Please refer to the <i>Discussion /Officer Comments</i> section of the Council Report.

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		These references provide context the very low nutrient application associated with the very small piggery, which present a low risk of nutrient runoff. A site nutrient balance has been presented in Section 5.7 of 1323 – Caves Road Farms – Supporting Information – Final V6.pdf detailing that the site will not generate excess nutrients, and rather will be nutrient deficient following one year of cropping. This low nutrient loading in conjunction with the high PBI soils which allows the nutrients applied to be retained within the soil profile present a low risk. Vegetative filter strips have been proposed to assist with sediment removal in runoff.	
2	Bore area vertical separation to surface of 1.8m in-lieu of 2.0m in summer	Groundwater separation distance will be managed to ensure that areas of higher elevation are utilised during periods when the water table is likely to be higher. The 2.0m guideline is based on much larger piggeries (some up to 10,000 pigs) with high stocking densities and different soil types including sand. The low nutrient loading of the ROP in conjunction with the high PBI soils allows the nutrients applied to be retained within the soil profile. The site has a 30+ year history of livestock production and has had no issues with vertical separation.	As above.
3	Groundwater vertical separation to surface likely to be zero in winter – risk of nutrient and effluent contamination.	Groundwater separation distance will be managed to ensure that areas of higher elevation are utilised during periods when the water table is likely to be higher. This management practice is no different to any other extensive livestock operations in the area.	As above.
4	No data provided addressing environmental and health issues of flooding due to waterlogging of soil in ROP area.	See response to Point 1 regarding environmental issues. Regarding public health risk, correspondence from Dr. Kim Nairn, Western Australia's leading pig veterinarian has previously been supplied addressing any public health risk of the piggery operations.	As above.
5	Concern over potential waste materials being washed into and contaminating the Ellen Brook and Cowaramup Brook catchment	See response to Point 1.	As above.
6	Concern additional nutrients in water system will destroy the bush.	See response to Point 1.	As above.
7	Apparent from the Integrity Report and Hydrology Report that the site has an inadequate supply of water to support the proposal.	The applicant has applied for multiple approvals under RiWI Act 1914 to authorise the proposed water supplies. These applications are currently under assessment and not relevant to this application. Approximately 4.8% of the proposed total water supply relates to the rearing of pigs. The rearing of pigs is not contingent on additional water supply as the existing water supply or off-site water could be used.	Noted. It has been demonstrated that there will be adequate water supply for the proposed use.
8	Springs referred to in Hydrology report may not be exempt from obtaining water permit as stated by applicant if it is deemed to have	The applicant has applied for multiple approvals under RiWI Act 1914 to authorise the proposed water supplies. These applications are currently under assessment and not relevant to this application.	Noted. Appropriate approvals to be obtained.

SHIRE OF AUGUSTA MARGARET RIVER
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	significant impact on the flow or level of the watercourse.		
9	Foreseeable that appropriate volume of water would not be available to meet the water demands of the project.	See response to Point 7.	Noted. Please see refer to response at point 7.
10.	Proposal would increase water demand at the site by 1,758 kilolitres per annum, with the total demand for the site being 20,311 kilolitres per annum – exceeds current entitlement to take 10,000 kilolitres per annum.	See response to Point 7. The existing water demand is 16.5ML and the proposed demand is 18.9ML. The additional demand consists of 0.9ML for livestock (including pigs) and 1.5ML for gardens. Existing water supplies include a 10ML surface water license, soaks and well liners with further detail provided in the Hydrological Assessment.	As above.
Concern with odour impacts			
11.	Concern the ROP would produce undue odour impact	ROPs pose a low risk of causing a substantial off-site odour impacts provided they are designed and managed according to sustainable nutrient loading rate criteria (Tucker et al. 2013). The risk assessment undertaken in accordance with 'National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)' classifies the operation as having a low risk of odour emissions. (Section 4).	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
Shire's Local Law 2002			
12.	Application does not comply with the Shire's Health local Law – 3400m in-lieu of 5000m from Gracetown townsite boundary	Addressed in Section 3.2.	Noted. Please refer to the <i>Relevant Policy</i> section of the Council Report.
Concern with degradation of Environment			
13	Concern that pigs naturally dig and rut the soil and when wet wallow in the mud degrading the environment	Pigs will be rotated every six weeks to minimise disturbance to groundcover and allow nutrients to be utilized.	Noted. It is considered that the relatively low scale of the ROP and the controls such as rotations and regeneration of land and soil testing to be implemented as part of the works approval / licence process.
14	Significant proportion of coarse grey mungite sands with low PRI within the ROP area – unsuitable for pig farming as per DPIRD's Environmental guidelines.	Site specific soil investigation found the majority of the ROP area is classified as highly suitable for livestock grazing (Section 5.4).	As above.
15	Proposal will diminish environmental values of the site in manner that is not environmentally sustainable.	The risk assessment undertaken in accordance with 'National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)' classifies the operation as low risk. (Section 4). See response to Point 1.	As above.
Buffer Distances			
16	ROP proposed on small land holding which has buffer distance limitations.	Proposed ROP area complies with all relevant buffer distances (Section 3.3).	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.

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17	ROP contravenes AMRS gazette rules of proximity to residential dwellings and rural buildings.	Proposed ROP area complies with all relevant buffer distances (Section 3.3).	As above.
18	Proposal inconsistent with EPA Guidance for 'Piggery – extensive' of 1000m separation distance from sensitive receptors.	Addressed in Section 3.	As above.
19	Applicant has not demonstrated any studies it has undertaken on potential impacts to surrounding sensitive land uses.	Extensive studies were undertaken to develop the 'National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)'. The risk assessment undertaken in accordance with this guideline classifies the operation as low risk. (Section 4).	As above.
20	No odour, noise or dust studies have been undertaken to determine impacts of proposal to surrounding residential dwellings.	Extensive studies were undertaken to develop the 'National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)'. The risk assessment undertaken in accordance with this guideline classifies the operation as low risk. (Section 4)	As above.
Concern with dust impacts			
21	Dust will be created in summer months which will blow onto neighbours.	Groundcover will be managed in accordance with the Caves Road Farms Rotational Outdoor Piggery Standard Operating Procedure (Appendix B).	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
Concern with operations			
22	DA does not give a clear plan of how the ROP will be operated.	The ROP will be managed in accordance with the Caves Road Farms Rotational Outdoor Piggery Standard Operating Procedure (Appendix B).	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
23	Page 9 of application suggests they might change from a "farrow to finisher operation to a breeder only operation".	The proposal is for a 15 sow farrow to finish operation which will have 107 pigs (of various ages) at any given point. If the operation changes to a breeder operation, the pig herd composition will be equal to 112 'standard pig units' meaning the different livestock models are equal to each other.	As above.
Concern with impact on businesses			
24	Concern with impact on existing tourism businesses in the surrounding area.	Caves Road Farms propose to improve the existing tourism opportunity through the sustainable operation of their farm and farm shop.	Noted. The proposal, if approved, is not considered to have an undue impact on any existing tourism business in the area.
Inconsistent with planning framework			
25	Key objective of planning framework is to protect rural uses in rural areas.	Under LPS1, the site is zoned 'Priority Agriculture' and the rearing of pigs in pens is a normal farm practice that is a permitted use (as confirmed by the Shire on 19/5/21). Furthermore, clause 1.6.5 of the LPS1 sets out the following objectives with respect to agricultural and rural land use as "To ensure the protection of Priority and General Agricultural Land as identified within the Scheme by discouraging any land uses and developments which would detract from the principle function of the land or productive agricultural purposes and ad hoc fragmentation of rural land which would lead to the establishment of non-rural uses and developments; and to provide for the sustainable use of rural land for diverse agricultural production, which encourages and promotes best practice agriculture and	Noted. Please refer to the <i>Relevant Policy</i> section of the Council Report.

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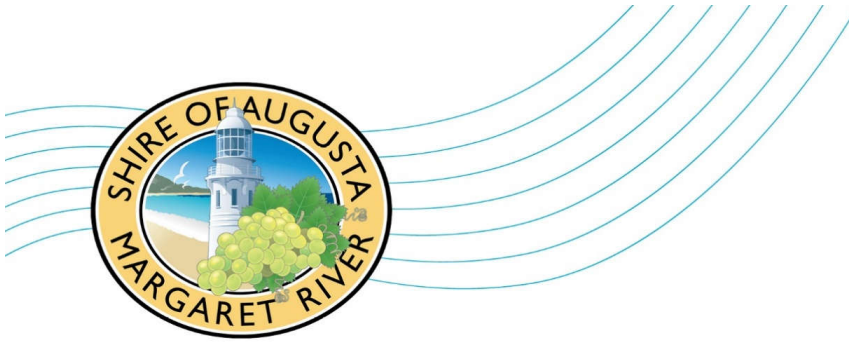
		<i>sustainable land use change, and which accommodates ancillary and complimentary rural activities</i> . The small rotational outdoor piggery with a Farm Shop to sell the locally grown produce meets these objectives and is in keeping with this framework.	
26	Proposal threatens continuation of surrounding rural uses.	Addressed in Section 25.	As above.
27	Approval would create a negative precedent for continued protection of rural areas.	Addressed in Section 25.	As above.
28	Proposal is inconsistent with objectives of Priority Agriculture zone.	Addressed in Section 25.	As above.
29	Proposal inconsistent with the <i>Environmental Guidelines for New and Existing Piggeries – Agriculture WA 2000</i> in terms of shallow depth to water table, heavy soils with low permeability, buffer zones for water bodies, land subject to water logging and buffers.	The most relevant guideline is 'National Environmental Guidelines for Rotational Outdoor Piggeries (Tucker et al. 2013)'. Management of impacts in accordance with this guideline are detailed in <i>1323 – Caves Road Farms – Supporting Information – Final V6.pdf</i> .	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
Concern with impact on amenity			
30	Applicant has not demonstrated that the proposal will not adversely affect the amenity of nearby properties.	Management of impacts to be consistent with normal agricultural activities and are detailed in <i>1323 – Caves Road Farms – Supporting Information – Final V6.pdf</i> .	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
31	Existing amenity is consistent with 'Priority Agriculture' zone with low levels of noise, dust and odour emissions, except emissions from rural activities or farm animals stocked at reasonable level.	Management of impacts to be consistent with normal agricultural activities and are detailed in <i>1323 – Caves Road Farms – Supporting Information – Final V6.pdf</i> .	As above.
Stocking Rate			
32	High stocking densities in the grazing area will add further nutrient load and land degradation to the site.	See response to Point 1. Stocking rates are extensive and low.	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
Concern with impact of flies			
33	Proposal likely to result in substantial increase in flies due to increase in manure on the site.	Addressed in Section 7.3.	Noted. The applicant has adequately demonstrated that there will not be an undue impact in relation to fly nuisance.
34	Applicant has failed to demonstrate how flies will be managed – insufficient information in this regard.	Addressed in Section 7.3.	As above.
Orderly and proper planning			
35	Sustainability is a core element of orderly and proper planning. Proposal is not sustainable	The idea of the farm is to provide a model of sustainable agriculture (ie limited synthetic fertiliser use, rotational grazing). Section 6 & 7 of the Hydrology report, discusses multiple flow scenarios and impacts. Water	See response at point 7.

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	because it demands a quantity of water which cannot reliably be obtained.	demand from the pigs represents approximately 4.8% of total water demand.	
Insufficient supporting information			
38	Hydrology Report does not consider impact of proposal on available water resources and comment on water demand of proposal.	Section 6 & 7 of the Hydrology report, discusses multiple flow scenarios and impacts.	Noted. This matter has been sufficiently addressed.
39	Applicant has not measured the groundwater levels for the winter months – concerning given site has insufficient groundwater separation.	Ongoing investigations into the winter groundwater are being undertaken in consultation with DWER. This level of data is normally associated with large intensive operations.	Noted. Please refer to the <i>Discussion / Officer Comments</i> section of the Council Report.
40	Applicant has not developed an environmental management plan, as recommended on the Environmental Guidelines.	Details of environmental management are provided in <i>1323 – Caves Road Farms – Supporting Information – Final V6.pdf</i> . This is extremely detailed given the very small size of the operation.	As above.
41	Integrity Report references an 'integrated pest management approach but provides no detail to what that approach may entail.	See section 7.3.	Noted. This matter has been adequately addressed by the applicant.
42	Integrity Report notes mortalities will be dealt with offsite however site plan contained on page 8 contains reference to 'burial trench'.	Burial of mortalities will not occur onsite. See section 7.2.	As above.
43	Applicant has not considered likely additional traffic movements to be generated by proposal. Foreseeable that the proposal will generate a high level of traffic given it is expected that 400 piglets raised on site per annum.	A 15 sow farrow to finish operation is very small, and the increase in traffic numbers is expected to be negligible. There will be less than 5 pigs produced each week being 240 pigs per annum.	Noted. It is considered that the application, if approved would not result any adverse traffic impacts.
Support for proposal			
44	Proposal adds to diversity of farming and tourism culture.	Appreciate the support for the Caves Road Farm that will provide a model of sustainable agriculture, and tourism/education opportunity for the region.	Noted.
45	Farming in the Priority Agriculture zone has co-existed with Tourism for decades and must be encouraged for region to continue to grow.	Appreciate the support for the Caves Road Farm that will provide a model of sustainable agriculture, and tourism/education opportunity for the region.	Noted.

SHIRE OF AUGUSTA MARGARET RIVER
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46	As site is zoned Priority Agriculture, applicant should be allowed to operate farming business, pursuant to following local and state government regulations.	Appreciate the support.	Noted.
47	Agriculture comes in many forms, it would be remiss for the Shire to knock back the proposal on the grounds that it is perceived to be something residents disagree with.	Appreciate the support. A piggery of this scale has significantly lower impacts than many existing agricultural uses.	Noted.
48	Pandemic demonstrated that the Shire needs a variety of robust businesses operating to sustain economic activity.	Appreciate the support.	Noted.



Sustainability Advisory Committee (SAC) Meeting 6 December 2022

MINUTES

Meeting Notice

Please be advised that a meeting of the Augusta Margaret River Sustainability Advisory Committee will be held in the Main Break Meeting Room at 41 Wallcliffe Road, Margaret River on Tuesday 6 December 2022, commencing at 4pm.

Yours faithfully

STEPHANIE ADDISON-BROWN
CHIEF EXECUTIVE OFFICER

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SHIRE OF AUGUSTA MARGARET RIVER
SUSTAINABILITY ADVISORY COMMITTEE (SAC) AGENDA 6 DECEMBER 2022

ACKNOWLEDGEMENT OF COUNTRY

The Shire of Augusta Margaret River acknowledges we are on Wadandi and Pibelmen Boodja, whose ancestors and their descendants are the traditional owners of this country.

We acknowledge the Wadandi and Pibelmen have been custodians since the land was soft (creation times) and continue to perform age old ceremonies of celebration, initiation and renewal. We acknowledge their living culture and their unique role in the life of this region.

The Shire is committed to Aboriginal Australians sharing fairly and equitably in the region's cultural, social, environmental and economic future.

SHIRE'S VALUES / MISSION

Our Mission

"To protect the natural environment, strengthen our communities, foster local economic prosperity and responsibly manage the community's infrastructure and assets".

Our Values

- Honesty
- Commitment
- Respect
- Courage

Our Strategic Goals

- Valuing the natural environment
- Welcoming and inclusive communities
- Managing growth sustainably
- Vibrant and diverse economy
- Effective leadership and governance

ROLE OF THE COMMITTEE

To provide strategic advice to Council regarding matters relating to sustainability to support Council when making strategic decisions for the Shire.

OBJECTIVES OF THE COMMITTEE

- a) To provide advice to Council regarding strategic policy direction with the aim of promoting sustainability outcomes that are environmentally responsible, socially and culturally sound and economically viable. Advice to Council may include advice relating to the following sustainable environmental issues:
 - Climate change;
 - Transport and air quality;
 - Biodiversity;
 - The built environment;
 - Community information and engagement to increase sustainable practice;
 - Land and waterway degradation;
 - Water quality and conservation;
 - Economic transition;
 - Waste management; and
- b) To assess and review strategic policies, plans and projects which Council will need to be making decisions on to ensure they encourage an increase in sustainable behaviour change within the Shire, in residents, businesses and other members of the community (including visitors) to improve sustainability outcomes.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SHIRE OF AUGUSTA MARGARET RIVER
SUSTAINABILITY ADVISORY COMMITTEE (SAC) AGENDA 6 DECEMBER 2022

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SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SHIRE OF AUGUSTA MARGARET RIVER
SUSTAINABILITY ADVISORY COMMITTEE (SAC) AGENDA 6 DECEMBER 2022

1. DECLARATION OF OPENING

The Chair, Ms Paula Cristoffanini welcomed all in attendance and declared the meeting open at 4:03pm

2. ATTENDANCE

Shire President	:	Cr Paula Cristoffanini (Chair)
Councillor	:	Cr Tracey Muir (Deputy Chair)
Manager Planning & regulatory Services	:	Mr Matt Cuthbert
Sustainability Planning Officer	:	Ms Katie Biggs (joined electronically)
Sustainability Planning Officer	:	Mr Jared Drummond
Sustainable Economy Officer	:	Saul Cresswell
SAC Members	:	Mr Ingvar Anda Ms Naomi Godden Ms Peta Goodwin Mr Ray Swarts Ms Karen Tearney Mr Crispin Underwood Mr Hamish Worsley Ms Lyn Serventy
Community Members	:	Mr Evan Coumbe
Sustainable Development Administrator	:	Ms Rachael Bayley

3. DISCLOSURES OF INTEREST

Nil

4. PUBLIC QUESTION TIME

Nil

5. CONFIRMATION OF MINUTES OF PREVIOUS MEETING*

RECOMMENDATION / SAC DECISION

MOVER: CR TRACEY MUIR SECONDER: MS PETA GOODWIN SAC2022/23

That the Sustainability Advisory Committee confirms the minutes of the Sustainability Advisory Committee meeting held on 27 September 2022 to be a true and correct record of the meeting.

CARRIED 10/0

6. REPORTS

Nil

7. BUSINESS ARISING FROM PREVIOUS MEETING

Actions Completed Last Meeting – 27 September 2022

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SHIRE OF AUGUSTA MARGARET RIVER
SUSTAINABILITY ADVISORY COMMITTEE (SAC) AGENDA 6 DECEMBER 2022

27/09/22	<p>SAC2022/17 The Sustainability Advisory Committee recommends that the Council note The Background Statement to the Overarching Sustainability Policy (previously referred to as the Preamble) prepared by members of the Sustainability Advisory Committee as shown in Tabled Item 1.</p>	Action Complete OM2022/182
27/09/22	<p>SAC2022/19 The Sustainability Advisory Committee recommends that the Council endorse the revised Overarching Sustainability Policy as shown in Tabled Item 2.</p> <p style="text-align: center;"><i>Cr Meldrum moved the following procedural motion:</i></p> <p style="text-align: center;">PROCEDURAL MOTION / COUNCIL DECISION CR MELDRUM, CR MUIR OM2022/183 That recommendation Part 2 (as below) be deferred to allow further consideration at a strategic workshop.</p> <p style="text-align: center;">PART 2 - RECOMMENDATION: 1. Rejects Sustainability Advisory Committee recommendation to endorse the Overarching Sustainability Policy as amended and tabled in the meeting (Attachment 3); 2. Endorse the revised Overarching Sustainability Policy (officer version) at Attachment 4.</p> <p style="text-align: right;">CARRIED 5/0</p>	In Progress OM2022/183 (shown below)
27/09/22	<p>SAC 2022/20</p> <ol style="list-style-type: none"> 1. That the Sustainability Advisory Committee recommends that Council endorse the recommended changes to the following policies: <ol style="list-style-type: none"> a. Community Consultation and Stakeholder Engagement Policy (Attachment 3) b. Financial Viability Policy (Attachment 7) c. Investment Policy (Attachment 9) 2. That the Sustainability Advisory Committee advises Council that it has no comment to make with respect to: <ol style="list-style-type: none"> a. Financial Hardship – Collection of Rates and Service Charges Policy (Attachment 5) b. Purchasing Policy (Attachment 10) c. Regional Price Preference Policy (Attachment 11) 3. That the Sustainability Advisory Committee recommends that Council workshop the Complaint Handling Policy (Attachment 4) to ensure that the process is clear to members of the public and provides appropriate protection for complainants. 	Action Complete OM2022/182
27/09/22	<p>SAC2022/21 The Sustainability Advisory Committee recommends that Council endorse the appointment of Karen Tearney as a member of the Committee.</p>	Action Complete OM2022/182
27/09/22	<p>SAC 2022/22 That the Sustainability Advisory Committee advertise the following meeting dates for 2023: 14 March 4pm Augusta Council Chambers 13 June 4pm Mainbreak Meeting Room 12 September 4pm Mainbreak Meeting Room 5 December 4pm Mainbreak Meeting Room</p>	Action Complete OM2022/182

Outstanding Actions

Date	Recommendation	Progress
21/06/22	SAC2022/10	Action Complete

5

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

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	<p>That the Sustainability Advisory Committee:</p> <ol style="list-style-type: none"> 1. Notes the progress to date on the Climate Action Plan; 2. Recommends Council notes the progress to date and shares the information with the community; and 3. Requests that Council reallocates proposed monies allocated to carbon offsetting in the 202/2023 budget to progress the implementation on the Climate Action Plan. 	<p>10 August 2022 OM2022/127: "That Council</p> <ol style="list-style-type: none"> 1. Receives the minutes of the Sustainability Advisory Committee meeting of 21 June 2022; 2. Notes the progress to date on the Climate Action Plan and shares this information with the community; 3. Notes that further consideration will be given to the continued purchase of carbon offsets following the investigation into alternative options including transitioning to electric vehicles, purchase of renewables and transitioning to streetlighting to lower energy consumption alternatives".
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8. CONFIDENTIAL BUSINESS

Nil.

9. CLOSURE OF MEETING

The Chair, Cr Paula Cristoffanini thanked all in attendance and declared the meeting closed at 4:08pm.

Application for development approval – Extractive Industry / gravel (v005)

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Revision Date: the 21st of June 2021 (v001)
12st of August 2021 (v002)
15th of November 2021 (v003)
2nd of June 2022 (v004)
27th of September 2022 (v005)

Shire of Augusta Margaret River

Lot 202 Wallis Rd, WITCHCLIFFE WA // Lot 201 46 Boronia Rd ROSA GLEN WA

Document Control:

Version		Date
001	<i>Final for issue to AMR Shire</i>	21 June 2021
002	<i>Revision for issue to AMR Shire – Lot 111 (321) Wallis Rd taken into consideration and added to the chapter 5.1, Noise assessment, Location Plan.</i>	12 August 2021
003	<i>Minor formal changes, one ground water test pit added to confirm GW levels. Crushing and screening proposed to shift further away from adjacent landowners on to Lot 202.</i>	15 Nov 2021
004	<i>Report, Site Plans and Noise assessment updated to address the removal of Cell2 and re-locating the crusher/screener further north; also several comment from the AMR Shire have been addressed</i>	02 June 2022
005	<i>Period over which operation will occur amended from 5 years to 2 years for gravel extraction and 5 years for crushing, screening, and carting off site</i>	27 Sept 2022

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1 PROPOSAL SUMMARY

Type of material to be excavated:	gravel
Extraction method:	Mechanical Extraction
Extraction area:	6.6 ha
Estimated deposit volume	Cell 1: 2.5ha 32,000 m ³ Cell 3: 4.1ha 53,000 m ³
	TOTAL: 85,000 m ³
Staging details:	Nine (09) progress stages each 0.6 – 1.1 ha Phase(area) one: Cell 1 -> stage I, II, III, IV Phase(area) two: Cell 3 -> stage I - V
Details of processing:	gravel extraction on Lot 202; completed after 2 years. crushing and screening, off-site on Lot 201; completed after 5 years.
Days and hours of operation:	Monday to Friday 7am – 6pm Saturday 7am – 1pm No operation on Sundays and Public Holidays. No haulage on school bus routes during school bus hours.
Estimated completion:	2027: 2 years for gravel extraction and 5 years for crushing, screening, and carting off site.
Type of equipment machinery	Striker Crusher, CAT 621 Scraper, Komatsu D-85 Dozer, CAT 130G Grader, Komatsu Precision Loader, Sumitomo EX321 Excavator, Iveco Water cart, 30t CAT Dump Truck, 30T Volvo Dump Truck, Seeders for the rehabilitation works.
and trucks:	Prime mover towing a semi-trailer at 42.5t, 19m length. (Category 1 restricted access vehicle (RAV) / Main Roads WA Network 1)
Average number of truck movements per day:	16 (seasonal operation / 32 weeks per annum)
Maximum number of truck movements per day:	(16 + estimated peak of 100%) TOTAL _{max} = 32

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2 PROPERTY DETAILS

LANDOWNER (both Lots)	Shelley Violet & Kevin Malcolm SILVERTHORNE	
APPLICANT	Graham MINCHIN	
	LOT USED FOR EXTRACTION SITE	LOT USED FOR SITE ACCESS FROM BORONIA RD AND TO THE DAM WATER (WATER CARD) AND FOR CRUSHING, SCREENING AND STOCKPILING
Lot	202	201
Deposited Plan	DP416115	
Street	Wallis Road	46 Boronia Road
Locality / Suburb	WITCHCLIFFE WA	ROSA GLEN WA
Property size:	30.5415 ha	66.9807 ha
Local Government:	Shire of Augusta Margaret River	
Property zone/LPS1:	Priority agriculture	
Current property use:	<ul style="list-style-type: none"> Agricultural pursuits/pasture production and stock grazing 	<ul style="list-style-type: none"> Agricultural pursuits/pasture production and stock grazing Caravan Park

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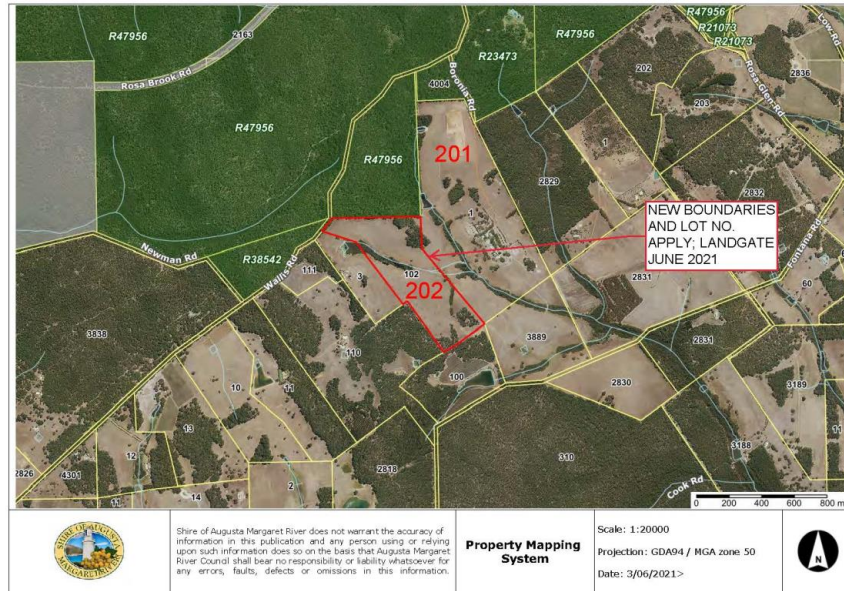


Figure 1 - Property location plan

3 LEGISLATIVE CONTEXT

The application complies with:

- Local Planning Policy 3 – Extractive Industries; November 2014, Shire of Augusta Margaret River
- Planning Information Sheet PS08 – Extractive Industry; June 2019, Shire of Augusta Margaret River

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4 SCALE AND NATURE OF OPERATION

4.1 SIZE AND DEPTH OF PITS

The Site Plan included with this application clearly depicts the location of the pits on the property and limits the site to a maximum area of 7.4 ha, separated into three (3) different cells. Therefore, the estimated maximum depth in relation to the 'Maximum Seasonal Groundwater Level' (MSGL) of the pit cells can be given as follows:

Cell No.	Cell size [ha]	Deposit	Natural Ground Level [mAHD]	Average Pit depth [m below GL]	Pit floor level [mAHD]	MSGL [mAHD]	vert. separation distance [m]
1	0.8	gravel 10,000 m ³	116.5 – 122.5	1.3	115.2 – 121.2	114.5 (modelled) & 2.5 – 4.2mbGL (observed in test pit – B and E)	>0.7 >1.2
2	2.5	gravel 32,000 m ³	115 - 120	1.3	113.7 – 118.7	110 - 105	>3.7
3	4.1	gravel 53,000 m ³	111 - 116	1.5	109.7 – 114.7	107 – 104	>2.5

Table 1 - Key figures for the extraction site

The cells will be extracted in the following order and separated into ten (10) stages.

Phase ONE: Cell 1 -> stage I
Cell 2 -> stage II
Cell 1 -> stage III, IV, V

Phase TWO: Cell 3 -> stage I – V

However, the bottom of the pits will vary according to the level of the underlying gravel profile but can be considered consistent with a maximum depth of 1.3-1.5 m according to the test pit explorations. (see Table 1 and 2)

The overburden topsoil for the cells is to be stripped to a depth of 150-200mm and wind-rowed in bunds 3m wide and 2m high along the excavation area.

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Furthermore, up to 6m high sound-bunds will be installed as per Appendix G – Environmental Noise Assessment Report. The construction of the bund walls is part of the construction phase and must be completed for each cell before the operational (extraction) phase commences. The material for the bund walls will be sourced from material on site, and a dozer will push the material into the proposed bund wall locations. For more details, refer to the Site Plans for all three (3) cells. See Appendix B – Site Plan Cell 1 and Appendix C – Site Plan Cell 3

The gravel deposit excavation will be a project for gravel supply for sale to private, commercial, main roads and local government demands within the Augusta Margaret River Shire district.

Test pits and deposit investigation

A series of test pits were excavated to locate the depth of the gravel deposit.

The test pit exploration took place on the 25th of August 2020.

One additional test pit was excavated to a depth of 4.2m below ground level on the 26th October 2021 with no signs of any groundwater or seepage flow

The location, depth and pit floor levels can be found in:

- Table 1 - Key figures for the extraction site, on page 7.
- Table 2 - Test Pit depth and Groundwater investigation, *below*
- Appendix D – Location Plan – Groundwater Contours rev001
- Appendix E – Test Pit Photos rev001
- Appendix F - Test Pit Location Sketch

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Appendix E – Test Pit Photos

All test pits were dry, and no perched Groundwater table or seepage flow was present.

Test Pit Location	Test Pit No	depth of gravel [mbGL]	Groundwater (GW)/ Seepage Flow (SF)
CELL 1	3	1.3	
	B (GW Test Pit)	2.5	Dry – no GW/SF
	E (GW Test Pit)	4.2	Dry – no GW/SF
CELL 2	1	1.0	
	2	1.5	
	3	1.3	
	4	0.8	
	A (GW Test Pit)	3.2	Dry – no GW/SF
CELL 3	1	1.0	
	2	1.4	
	3	1.4	
	4	1.4	
	5	1.5	
	6	1.5	
	7	1.4	
	8	1.2	
	9	0.9	
	10	1.4	
	C (GW Test Pit)	3.0	Dry – no GW/SF
D (GW Test Pit)	3.0	Dry – no GW/SF	

Table 2 - Test Pit depth and Groundwater investigation

4.2 ESTIMATED VOLUME OF RESOURCE EXTRACTION

The gravel volume proposed to be excavated from all three (3) cells is up to 95,000 m³ with small and large contracts from an *extraction area* no larger than 1.1ha at once.

4.3 STORAGE OF MATERIALS ON-SITE

It is proposed to store raw materials on-site. The gravel will be extracted, crushed, screened and placed in bund rows before being loaded on haulage vehicles.

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4.4 PERIOD OVER WHICH OPERATION WILL OCCUR

The estimated timeline is 2 years to complete the gravel extraction and transport all raw material to the crusher and screener location on Lot 201 Boronia Rd.

The timeline to crush and screen the raw material will be up to 5 years and will be subject to the demand for the gravel and the volumes required for contracts.

Site rehabilitation will take place immediately after extraction of each *extraction stage* and reseeded will be done every autumn season of an annual extraction period.

4.5 PROPOSED OPERATING TIMES

The proposed hours of machinery operations and all required site activities are from 7am to 6.00pm Monday – Friday and 7am to 1pm Saturday for all extraction, loading, crushing, screening, truck, and trailer movements and rehabilitation work.

The site will be closed on Sundays and Public Holidays.

4.6 TYPE OF MACHINERY TO BE USED.

The preparation and extraction of the pit site will require the following plant/machinery:

- 1x Striker Crusher
- 1x CAT 621 Scraper
- 1x Komatsu D-85 Dozer
- 1x CAT 130G Grader
- 1x Komatsu Precision Loader
- 1x Sumitomo EX321 Excavator
- 1x 2015 Iveco 6Wheel Water Truck
- 1x 30t CAT Dump Truck
- 1x 30t Volvo Dump Truck
- Semi-trailer trucks (RAV 1).
- Seeders for the rehabilitation works.

4.7 ON-SITE MAINTENANCE OF VEHICLES

The owner and proponents of the licence will not carry out any vehicle/machinery maintenance on-site except in the case of a vehicle breakdown, however, they will endeavour to remove machinery from the site for repairs.

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5 APPLICATION PERFORMANCE CRITERIA

5.1 SURROUNDING RESIDENTS

- There are eight (8) dwellings around the proposed EXTRACTION SITE and CRUSHING, SCREENING AND STOCKPILING SITE.
- - Within 500m buffer:
 - 1x Lot 110 – south-west
 - 1x Lot 3 - south-west
 - 1x Lot 100 – south
 - 2x Lot 201 – northeast (this Lot is owned by the applicant and forms part of the application)
 - With 500m – 1000m buffer:
 - 1x Lot 11 – south-west
 - 1x Lot 111 – south-west
 - 1x Lot 2829 north-west

An Environmental Noise Assessment has been prepared to achieve compliance on noise mitigation measures, as required by the assessment. See Appendix G – Environmental Noise Assessment Report.

The noise mitigation measures can be described as earth bunds required during the extraction phase (incl. crushing, stockpiling, and loading) to provide the required protection against noise emissions.

5.2 VISUAL IMPACT MANAGEMENT

This operation's scale is small and will be rehabilitated when each of the ten (10) stages with an area of up to 1.1ha are extracted.

As a result, the visual impact on neighbouring properties is assessed as low impact or negligible.

The only visual impacted Lot is the adjacent Lot 3 and Lot 201 (application's landowner). All other Lots/Dwellings are screened by vegetation and/or the land topography itself provides invisibility (situated behind a hill, ridge, or valley). See Appendix A – Location Plan

5.3 LAND CAPABILITY, SOILS AND LANDFORM.

Soils and landforms of the area have been described and mapped by Tille and Lantzke 1990 and most recently by the Department of Primary Industries and Regional Development (DPIRD) 2003.

The land unit 216CoCOu dominates the ridge system of the property (extraction site) – Cowaramup, undifferentiated upland Phase: Flats and gentles slopes (0-5% gradient) with gravelly duplex (Forest Grove) and pale grey mottled (Mungite) soils.

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DPIRD have assessed agricultural use for both land units with:

- 216CoCOu = >70% of the land has moderate to very high for Annual Horticulture (Land Capability Class 1).

The geology can be described as Laterite overlying a basement of granitic rocks.

Extraction of raw materials in this area complies with the Local Planning Policy 3, to not prejudice the productive use of agricultural land.

Post extraction: After rehabilitation and the topsoil dressing, the parcels will be turned into land with a moderate to very high capability for grazing (Land Capability Class 1).

5.4 ENVIRONMENT

Existing Vegetation and Fauna

- The land on the proposed extraction site is cleared of native vegetation.
- After researching the DBCA Data set's DBCA-036, 037, 038 and DBCA's 'Nature Map' (Department of Biodiversity Conservation and Attractions, n.d.), no *Threatened Priority Flora & Fauna* and *Ecological Communities* are present on the property and within the extraction site.

Existing and Surrounding Watercourses, Dams and Wetlands

The two cells for the extraction are located on the rise and sloping towards one minor perennial watercourse located in the middle of the property. The watercourse springs on the northern end of the property, where a soak dam is located on Lot 3. The watercourse is identified as a tributary of the Upper Chapman Brook.

A 40m wide strip along the watercourse on the property (20m on each side) is identified as an 'Unreviewed Geomorphic Wetland of the Southwest Region (Source; Data set DBCA-040)'. The buffer/setback to the wetland from all two (2) extraction cells is defined as having a minimum of 70m. For erosion and sediment control measurements to protect the watercourse/wetland, refer to chapter 5.9 Drainage Implications.

There is one small stock water dam located on the northern boundary of the property. The dam is placed where the watercourse springs. The dam has a small bund wall to bank up the water but can be looked at as a soak dam to gain information about the highest seasonal Groundwater level.

There are more soak dams identified on the Location Plan around the extraction site. The highest water level in those dams has been utilised to compute Groundwater contours and predict flow directions.

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Groundwater Hydrology

The Groundwater in the region has been investigated and reported by the Department of Water in the Hydrogeological record series Report no. HG6, 2000 "Hydrogeology of The Blackwood River Catchment".

The extraction site is situated in the hydrogeological province of the '*combined Leeuwin surficial and weathered, fractured rock aquifer*'.

Surficial aquifers form a relatively thin unconfined layer with a saturated thickness of less than 10m. Sediments are predominantly gravel in this region.

Underneath, the Warnbro Group Sediments (incl. the Leederville formation) form the multi-layered confined aquifer.

Identified GW sources by the DWER for the extraction site are located within the Blackwood Area:

Level 2: <10m depth - Combined Leeuwin Surficial/Fractured Rock > Blackwood, Cape to Cape South - Subarea

Regional Groundwater flow recharges from the west to south-east towards the *Upper Chapman Brook* and further to the *Blackwood River*. The Brook is located 5.5km to the south-east of the extraction site.

Locally, the extraction site's superficial Groundwater flow is to the south-east (Cell 1) and to the north-east (cell 3) towards the wetland's minor perennial watercourse.

The proposed excavation depth is relatively shallow, with a depth of 1.3 - 1.5 mbGL. Assumptions and computer modelling of the superficial Groundwater have been undertaken to evaluate and determine the maximum seasonal Groundwater level (MSGSL).

There are 6 locations around the pit site where GW levels have been identified. Those locations are identified soak dams and dams with the highest water level at the end of the winter to be assumed at 0.5m below ground level. Triangulations of the observed maximum water levels in those dams resulting in Groundwater contours (levels in mAHD) and the flow direction can be determined from the higher potential towards the low points near the creek lines.

See Appendix D – Location Plan – Groundwater Contours for the location and anticipated water levels as well as computed Groundwater contours.

The maximum GW level modelled underneath the extraction site ranges from:

110 – 105 mAHD	for	Cell 1 with lowest pit floor 113.7 mAHD
107 – 94 mAHD	for	Cell 3 with lowest pit floor 109.7 mAHD

In addition, 5 test pits were excavated on the downhill side of each extraction cell with 2.5 to 4.2m below ground level. All 5 test pits were dry, and no Groundwater was seeping in. Those tests were conducted on the 25th of August 2020 and one additional test pit required by DWER on the 26th Oct 2021. Around this time of the year the Groundwater level can be

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assumed at peak level as this date relates to the end of the winter season, with MSGL occurring all around the region.

Therefore, a vertical separation distance of >1.2m between the pit floor and MSGL can always be assumed to avoid Groundwater interception. The risk of contamination can be assessed as very low.

(MSGL – Maximum Seasonal Groundwater Level)

For more details, refer to:

- Table 1 - Key figures for the extraction site
- Table 2 - Test Pit depth and Groundwater investigation
- Appendix D – Location Plan – Groundwater Contours

5.5 ROUTE ASSESSMENT AND TRANSPORT

Truck Size

The applicant is proposing that haulage will be limited to the use of 'as of right' vehicles: RAV Category 1 Vehicle (B) - **Prime Mover towing a semi-trailer tip truck.**

The total mass and overall length will not exceed 42.5 tonnes and 19 metres respectively.

Route Identification

Based on Main Road WA's RAV Network, two (2) major routes have been identified to connect to RAV Permit Network 2 road.

Route A - a western route on Rosa Brook Rd (anticipated 50% of all deliveries).

Route B - an eastern route on Rosa Brook Rd (anticipated 50% of all deliveries).

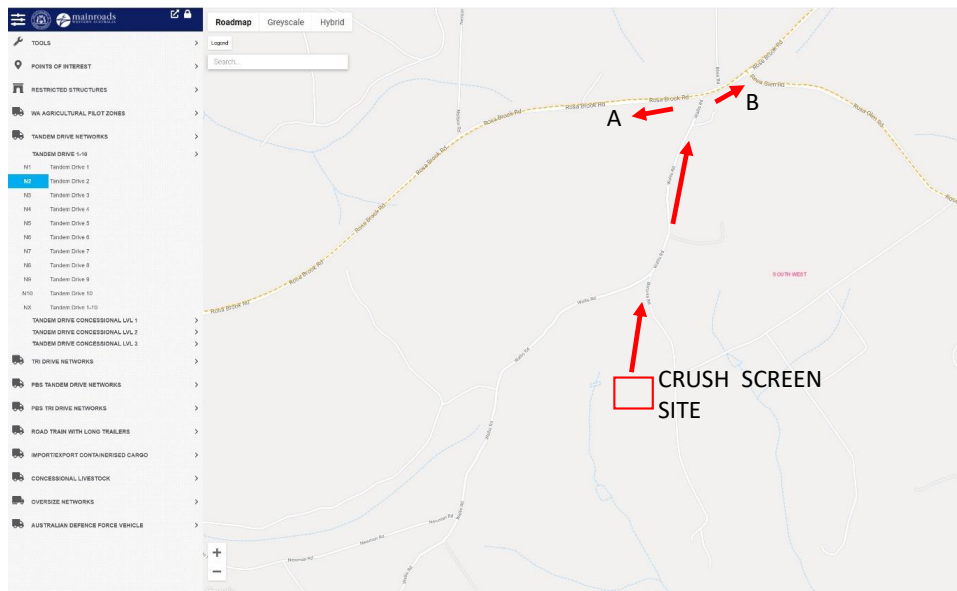


Figure 2 - RAV Network N1 for Tandem Drive (Source: Main Road WA RAV Mapping Tool (Main Roads WA, kein Datum))

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The haulage route on Boronia Rd was inspected with an AMR Shire works officer subject to road conditions and appropriate road width to handle the proposed truck movements. The inspection resulted in that Boronia Rd and the crossover onto Rosa Brook Rd is suitable without major upgrades.

Truck Capacity and Number of Truck Trips

Assessment of the estimated banked volume of 85,000 m³ against the truck movement calculations provides the **seasonal operation** removal of 97 BCM or 111 LCM per day (32 weeks/5.5 working days).

Based on a **semi-trailer tip truck** having a capacity of 18.9 LCM per payload of gravel, the average daily truckloads = nine (8) truckloads per average working day.

Each truckload requires an exit and return trip and therefore:

Route A average day truck trips	10	(50%)
Route B average day truck trips	9	(50%)

TOTAL of **16** average truck vehicle movements per day.

Total_{max} = +100% with 32 estimated truck vehicles movements per day

Location of Road Signage

The proponents of the pit are committed to providing and maintaining road signs as required. Two signs will be set up 150m south and north of the existing intersection from Boronia Rd onto Rosa Brook Rd.

All signs shall indicate "Trucks Crossing or Entering" ahead and comply with Main Roads Warning signs- Category 2.



W5-22 sign

5.6 NOISE MANAGEMENT

Given the setback distances from sensitive land uses, it is considered that noise can be managed through best practice measures in relation to vehicle and machinery ratings and maintenance, hours of operation and special weather conditions.

The contractor will also utilise the design of the pit area to assist in noise minimisation e.g.

- Existing and proposed screening and buffer vegetation around the extraction site.
- Topsoil and overburden shifted as part of the extraction process will be pushed to the work area's edges, creating bunds. These bunds will contribute to noise suppression.

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- The area will be laid out in such a way that certain vehicles, particularly trucks, will not be required to reverse, thus minimising the noise created by buzzers.
- An Environmental Noise Assessment has been prepared, and compliance with the relevant assigned noise levels will be achieved if the required noise mitigation measurements will be incorporated. See Appendix G – Environmental Noise Assessment Report.

As a result of the report, the proposed excavation stages have been implemented in the pit layout and extraction cells arrangement, see Appendix B – Site Plan. Furthermore, 2.5m, 3m and 5-7m high noise bunds shall be constructed with each stage around the extraction area and south of the crusher and screener location as proposed in the Environmental Noise Assessment.

All bunds will be constructed from overburden material to be laid down first. The topsoil will be placed at the front and on top of the bund to achieve the height required. In addition, the topsoil will be watered to stabilize the bunds and seeded to achieve vegetation cover (grass/groundcover) to look like a natural paddock and to blend in with the area.

Vehicles and machinery ratings and maintenance

The contractor's vehicles and machinery are maintained to industry standards to ensure that they comply with all relevant noise requirements. This is relevant to the reverse buzzers fitted to all vehicles and machinery. The proper use and maintenance of loaders, excavators and other machinery associated with the extraction of the gravel minimise the impact on sensitive land uses in the area. The maintenance of the trucks hauling the material is important as this helps to minimise the risk of tyre blowouts and breakdowns. Further, it minimises the impact of brake noise on haulage routes.

The contractor is committed to ensuring that vehicles and machinery are maintained to the highest standard with the workshop located in Margaret River near the subject site and the availability of off-site servicing and repair capabilities.

Hours of operation

The proposed hours of operation are from 7 am to 6.00 pm Monday – Friday and Saturday 7 am – 1 pm. This will ensure that all noise levels to sensitive land use in the area will be restricted to those acceptable under the EPA's guidelines.

Extreme weather conditions

Despite the hours of operation outlined above, where extreme weather conditions are present, the pit's operation will halt until they have passed or subsided. Both the halt and restart will be at the discretion of the site supervisor on duty during the weather event. Such weather conditions may include strong prevailing winds (>25knots) that would carry noise to a greater distance and potentially impact sensitive land uses in the area.

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5.7 DUST MANAGEMENT

Dust control can be gained by windrowing the topsoil/bunds around the cells and only extracting small sections at a time to expose the gravel. The usual process is to strip up to 0.5ha, and the excavation of the gravel below the ground level provides protection from winds.

Other general management techniques will apply if dust emissions occur depending on wind and weather conditions, see Appendix H – Dust Management Plan.

Topsoil/bunds and vegetation buffer

In addition to assisting with noise management, the topsoil/bunds and vegetation lines located on the edge of the pit areas will minimise the amount of dust transported to adjoining properties, particularly from dust-generating activities undertaken within the pit area itself. All topsoil/bunds will be watered to stabilize the bunds and seeded to achieve vegetation cover (grass/groundcover) to prevent dust emissions.

Water cart

The water cart is the preferred option for dust suppression and will be used at the discretion of the site supervisor on the day. The water cart will be used within the pit area while extracting and loading and accessing ways where haulage trucks are regularly travelling. The pit will be laid out for easy access of the water cart to wet down appropriate areas as required. The water cart will be filled from the existing small gully dam on the site of Lot 201. Where access to this water is not available, the water cart will be filled at the contractor's depot.

Where the water cart is unsuccessful at restricting dust to an appropriate level, the site supervisor may order the pit to cease operation until such time as the wind conditions have changed to a more suitable level. Where such an incident occurs, the supervisor shall record the date and time that the shutdown occurred for future reference by relevant parties.

Haulage

All trailers used for the carting of material from the site will be covered with tarps to eliminate dust/material being transported during the haulage process from leaving the pit itself to its destination.

For more details, refer to **Appendix H – Dust Management Plan**.

5.8 DIEBACK RISK ASSESSMENT & MANAGEMENT

The subject land has not been identified as a Dieback hotspot, and it is not expected that dieback will be introduced by haulage vehicles because the gravel is generally used on building sites and precast concrete manufacturing, and the trucks will be travelling primarily on bitumen roads.

gravel excavated from the cell pit sites can be tested for dieback if there is any prospect that it is an unexpected issue.

However, the area's dieback status cannot be determined due to the absence of monitoring vegetation and is therefore **classified as uninterpretable**.

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Best management practice should be applied based on the identified category. The guideline "Management of Phytophthora Dieback in Extractive Industries" (Dieback Working Group) published by the Dieback Working Group Western Australia provides a comprehensive management plan and techniques to be applied.

For more details, refer to the: **Appendix I – Dieback Management Plan**

5.9 DRAINAGE IMPLICATIONS

The site for the gravel extraction is located on top of a gravelly rise, gently sloping north-east with 1 in 30m (Cell 3) and south-west with 1 in 50m (Cell 1). There is one (1) minor drainage line between the two ridges. Very limited flows are expected from the site because of ground conditions (very permeable gravelly soil) and topography. Monitoring of the site under wet conditions will be undertaken for any additional drainage works that may need to be developed or improved.

The proposal for the site is to develop small stormwater retention sumps of 20m x 10m and 2m deep to retain any runoff from the sites before allowing the water to be slowly infiltrated and seep towards the drainage lines. See Site Plan.

Topsoil bund walls will be constructed at the bottom of cells where surface water runoff will be diverted into the stormwater retention ponds.

The sumps will be vegetated with reeds and rushes to act as biological filters for any nutrients coming from the extraction site.

Those stormwater bonds and bund walls will function as erosion and sediment control systems and protect the watercourse/wetland from any impact.

As such, the pit will also have no drainage influence on the adjacent watercourse systems as they are located outside the excavation site.

For more details, refer to **Appendix J – Water Management Plan**.

5.10 GROUNDWATER MANAGEMENT AND EVALUATION

The extractions will not intercept with the Groundwater at any time as the depth of the proposed excavation will provide at least >1200mm vertical separation distance to the Maximum Seasonal Groundwater Level (MSGSL). Visual monitoring to detect potential Groundwater interception due to unpredictable weather and rainfall conditions will be carried out at any time.

5.11 REHABILITATION OF SITE

For more details, refer to: **Appendix K – Rehabilitation Management Plan**

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This Extraction application has provided details of the management program for the pit site for the applicant and contractor approved by the landowner to operate the pit. If there is any further information required, please do not hesitate to contact the undersigned.

Please ensure that all correspondence relating to this application is forwarded to the applicant or the owner's contact person.

Steffen Schulz
Cowaramup WA
27 September 2022

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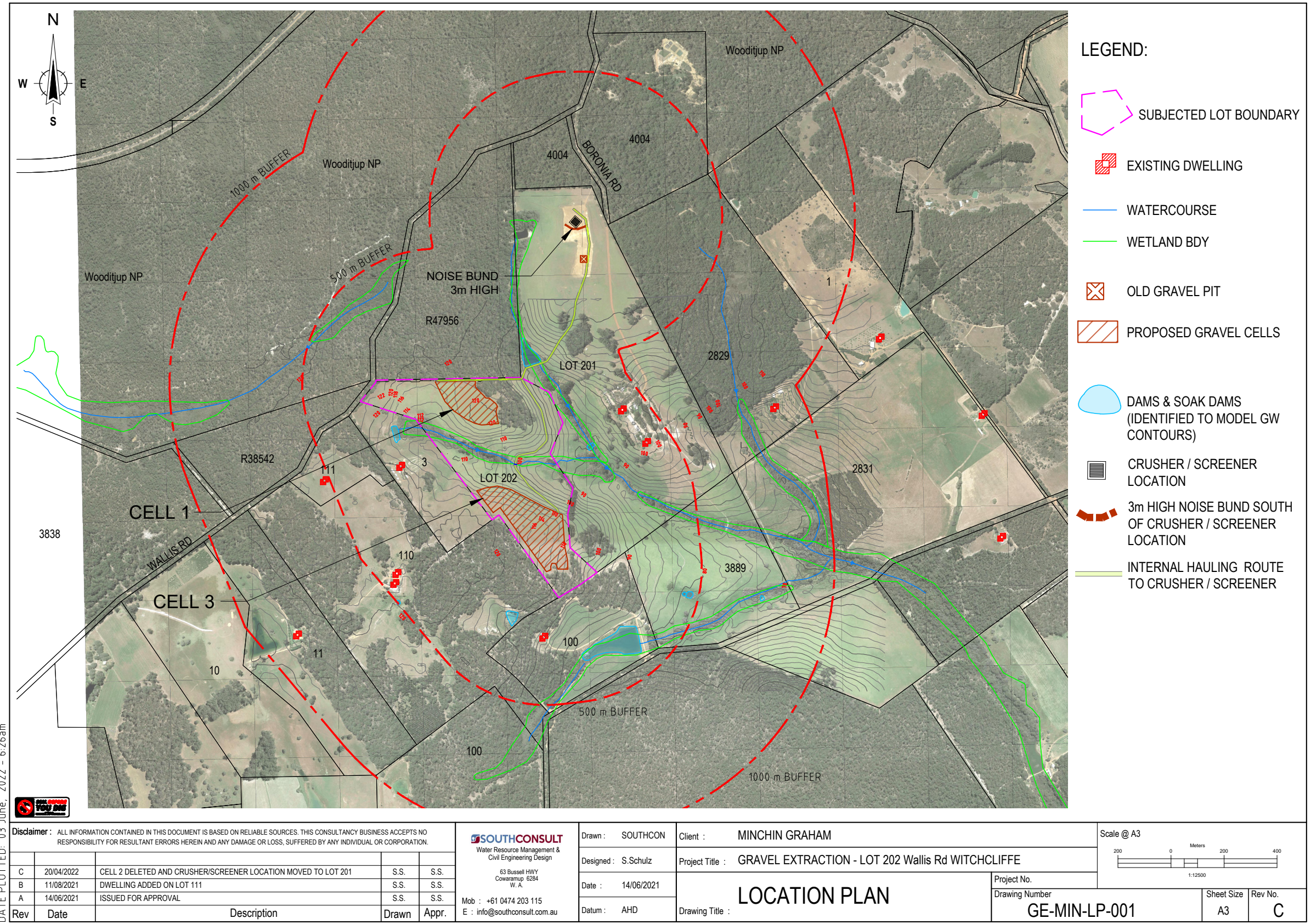
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Lot 202 Wallis Rd, WITCHCLIFFE WA // Lot 201 46 Boronia Rd ROSA GLEN WA

6 APPENDICES

APPENDIX A – LOCATION PLAN

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023



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Rev	Date	Description	Drawn	Appr.
C	20/04/2022	CELL 2 DELETED AND CRUSHER/SCREENER LOCATION MOVED TO LOT 201	S.S.	S.S.
B	11/08/2021	DWELLING ADDED ON LOT 111	S.S.	S.S.
A	14/06/2021	ISSUED FOR APPROVAL	S.S.	S.S.

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Drawn : SOUTHCON
Designed : S.Schulz
Date : 14/06/2021
Datum : AHD

Client : MINCHIN GRAHAM
Project Title : GRAVEL EXTRACTION - LOT 202 Wallis Rd WITCHCLIFFE
Drawing Title : **LOCATION PLAN**

Scale @ A3
200 0 200 400
Meters
1:12500

Project No.
Drawing Number: **GE-MIN-LP-001**
Sheet Size: A3
Rev No.: C

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APPENDIX B – SITE PLAN CELL 1

SHIRE OF AUGUSTA MARGARET RIVER
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- LEGEND:**
- WATERCOURSE
 - WETLAND BDY
 - PIT CELL BDY & STAGING
 - ACCESS TRACK 4m WIDE COMPACTED GRAVEL
 - NOISE BUND FROM H 2.5 to H 7.0m HIGH
 - STORMWATER RETENTION PONDS 20m x 10m x 2m DEEP
 - PIT FLOOR CONTOUR AT 1m INTERVAL
 - DRAINAGE SWALES 2m WIDE 0.3M DEEP
 - WATERCOURSE CROSSING 5m WIDE COMPACTED GRAVEL AND 2x RCP DN 500 TO MAINTAIN FLOW

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A	14/06/2021	ISSUED FOR APPROVAL	S.S.	S.S.

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Drawn: SOUTHCON	Client: MINCHIN GRAHAM
Designed: S.Schulz	Project Title: GRAVEL EXTRACTION - LOT 202 Wallis Rd WITCHCLIFFE
Date: 14/06/2021	Drawing Title: PHASE ONE SITE PLAN CELL 1
Datum: AHD	

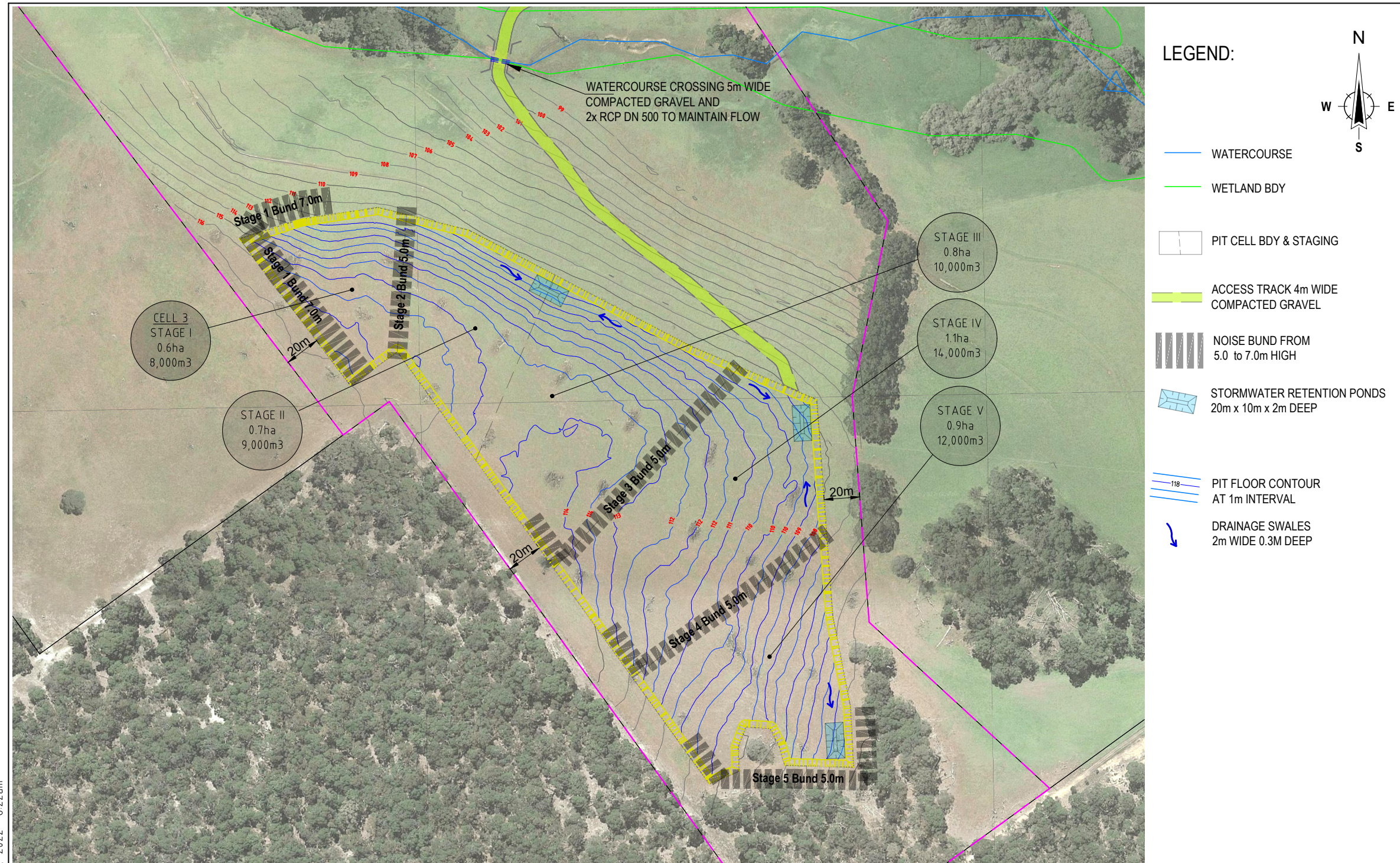
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APPENDIX C – SITE PLAN CELL 3

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LEGEND:

- WATERCOURSE
- WETLAND BDY
- PIT CELL BDY & STAGING
- ACCESS TRACK 4m WIDE COMPACTED GRAVEL
- NOISE BUND FROM 5.0 to 7.0m HIGH
- STORMWATER RETENTION PONDS 20m x 10m x 2m DEEP
- PIT FLOOR CONTOUR AT 1m INTERVAL
- DRAINAGE SWALES 2m WIDE 0.3M DEEP



DATE PLOTTED: 03 June, 2022 - 6:22am

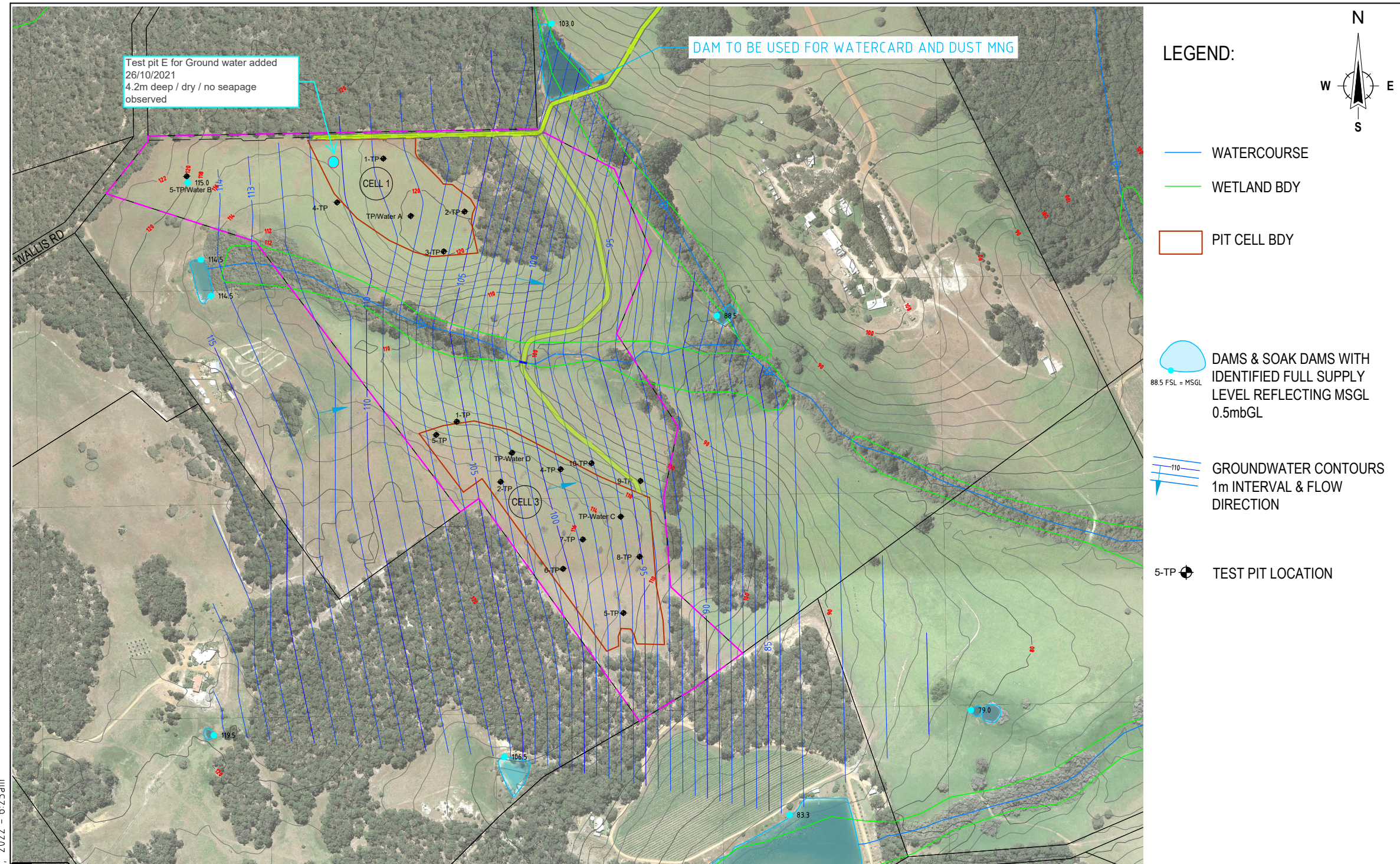
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				<p>Designed : S.Schulz Project Title : GRAVEL EXTRACTION - LOT 202 Wallis Rd WITCHCLIFFE</p>					
				<p>Date : 14/06/2021</p>		<p>PHASE TWO</p> <p>SITE PLAN CELL 3</p>		<p>Project No.</p>	
				<p>Datum : AHD</p>		<p>Drawing Number</p> <p style="font-size: large; font-weight: bold;">GE-MIN-SP-004</p>		<p>Sheet Size Rev No.</p> <p style="font-size: large; font-weight: bold;">A3 B</p>	
Rev	Date	Description	Drawn	Appr.					
B	20/04/2022	CELL 2 DELETED AND CRUSHER/SCREENER LOCATION MOVED TO LOT 201	S.S.	S.S.					
A	14/06/2021	ISSUED FOR APPROVAL	S.S.	S.S.					

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APPENDIX D – LOCATION PLAN – GROUNDWATER CONTOURS - REV001

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A	14/06/2021	ISSUED FOR APPROVAL	S.S.	S.S.

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W. A.
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E : info@southconsult.com.au

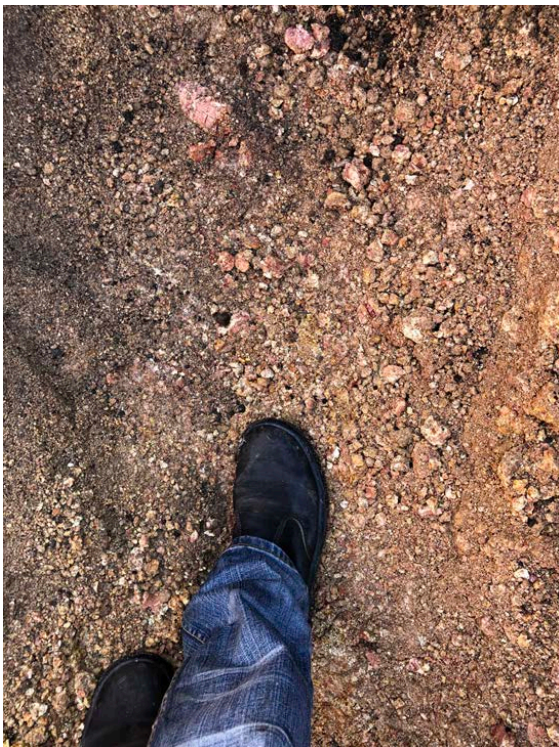
Drawn:	SOUTHCON	Client:	MINCHIN GRAHAM
Designed:	S.Schulz	Project Title:	GRAVEL EXTRACTION - LOT 202 Wallis Rd WITCHCLIFFE
Date:	14/06/2021	Drawing Title:	GROUNDWATER CONTOURS
Datum:	AHD	Drawing Number:	GE-MIN-GC-002

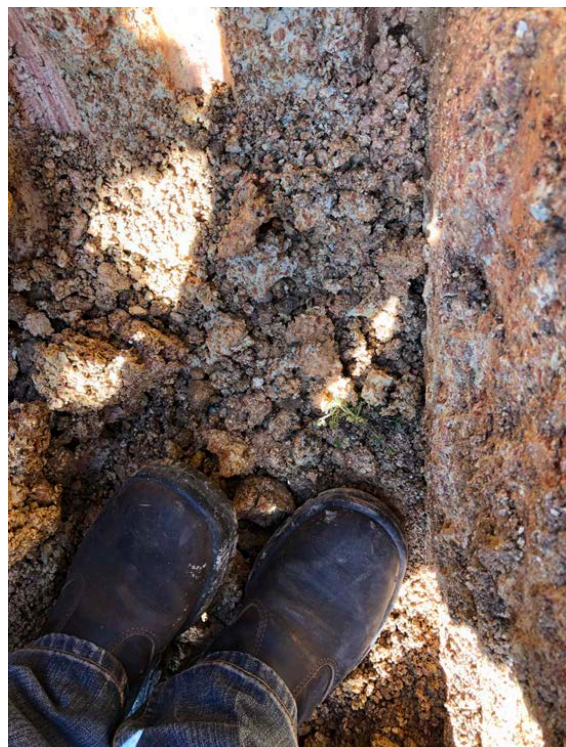
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APPENDIX E – TEST PIT PHOTOS – REV 001







Added Test PIT E 4.2m deep



Added Test PIT E 4.2m deep

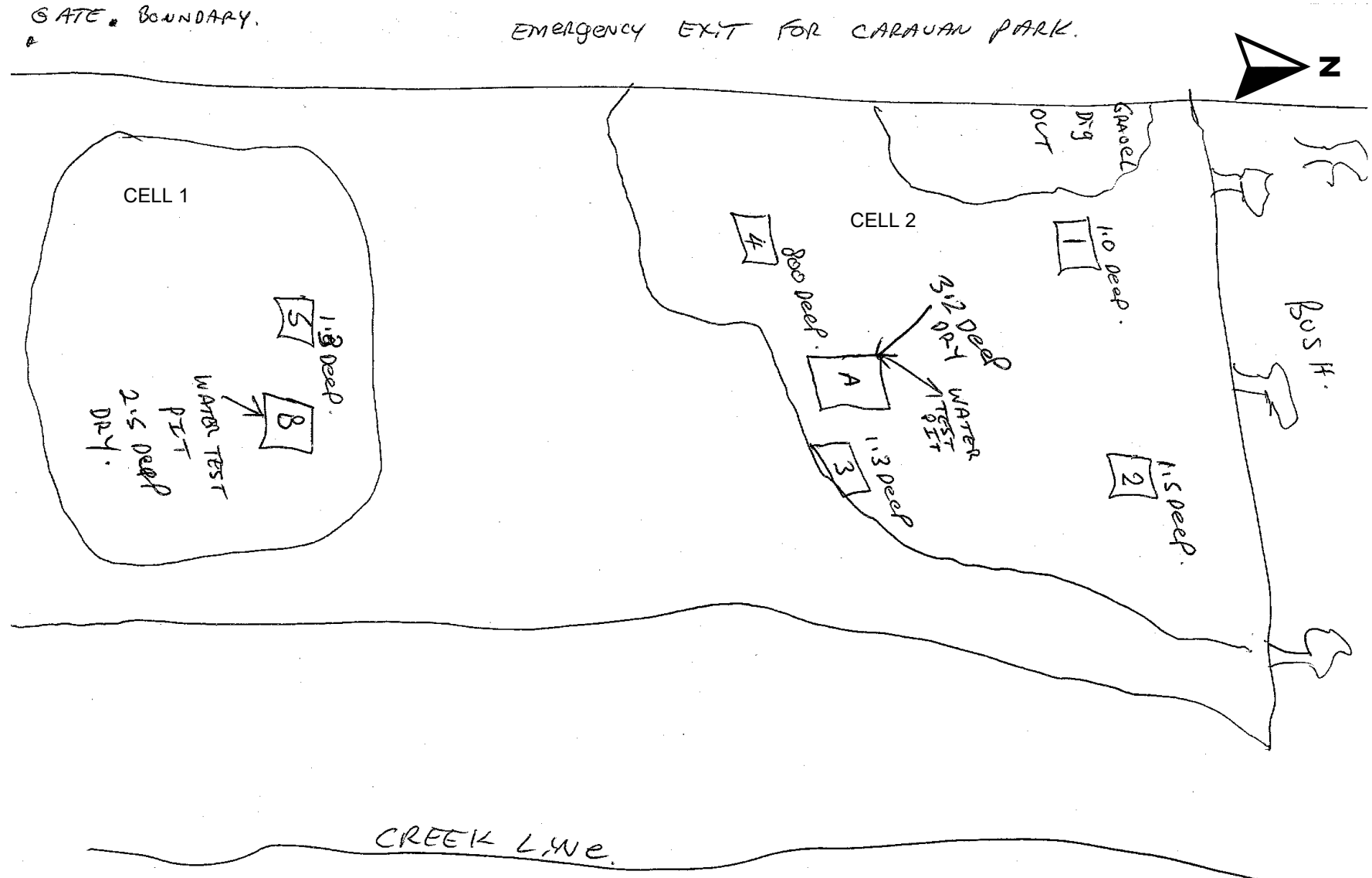


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APPENDIX F - TEST PIT LOCATION SKETCH

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25/08/2020

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APPENDIX G – ENVIRONMENTAL NOISE ASSESSMENT REPORT



Lloyd George Acoustics

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Environmental Noise Assessment

Silverthorne Gravel Extraction Operations
Lot 202 Wallis Road, Witchcliffe, WA, 6286

Reference: 21016083-01C

Prepared for:
Graham Minchin



SHIRE OF AUGUSTA MARGARET RIVER
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Report: 21016083-01C

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This report has been prepared in accordance with the scope of services described in the contract or agreement between Lloyd George Acoustics Pty Ltd and the Client. The report relies upon data, surveys, measurements and results taken at or under the particular times and conditions specified herein. Any findings, conclusions or recommendations only apply to the aforementioned circumstances and no greater reliance should be assumed or drawn by the Client. Furthermore, the report has been prepared solely for use by the Client, and Lloyd George Acoustics Pty Ltd accepts no responsibility for its use by other parties.

Date:	Rev	Description	Prepared By	Verified
27-Apr-21	0	Issued to Client	Daniel Lloyd	Terry George
11-Aug-21	A	Included additional receiver	Daniel Lloyd	
18-Aug-21	B	Updated location of additional receiver	Daniel Lloyd	
03-June-22	C	Stage changes and crusher location	Daniel Lloyd	

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A Terminology	
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1 INTRODUCTION

This assessment has been prepared to show the predicted noise levels resulting from gravel extraction operations proposed to be carried out on Lot 202 Wallis Road, Witchcliffe, WA, 6286. The general locality of the operations and the site plan showing the two extraction cells (Cell 1 and 3) is shown in *Figures 1-1 and 1-2* respectively.

It is proposed to operate between 7.00 a.m. and 6.00 p.m. Monday to Friday and between 7.00 a.m. and 1.00 p.m. Saturdays. There will be no operations on Sunday or Public Holidays.

Appendix A contains a description of some of the terminology used throughout this report.



Figure 1-1 Project Locality

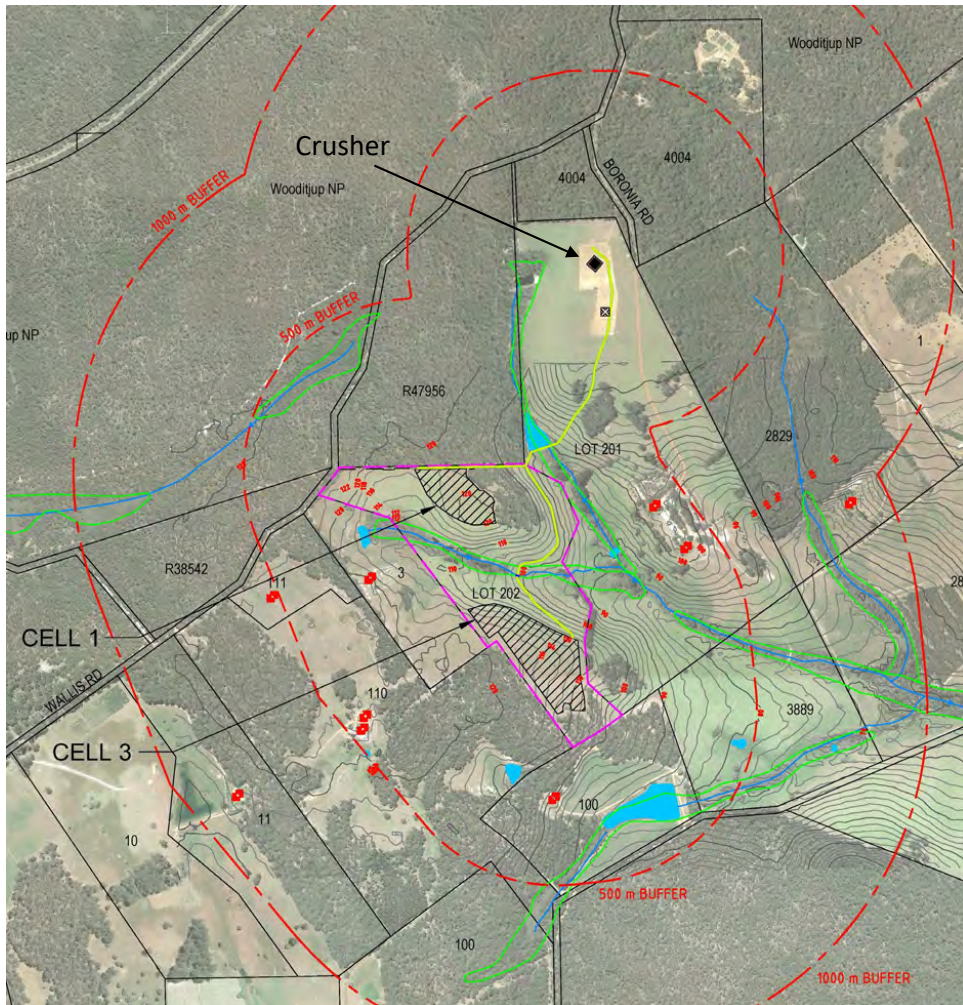


Figure 1-2 Site Plan

2 CRITERIA

2.1 Construction Phase (removal of topsoil and construction of bunds)

Construction activities are covered under Regulation 13 of the *Environmental Protection (Noise) Regulations 1997*, (the *Regulations*) and provide the noise requirements that are to be satisfied. Regulation 13 is considered appropriate for the removal of topsoil and construction of bunds, which means that the normally prescribed assigned noise levels under regulation 7 of the *Regulations* are not applicable as described below.

Regulation 7 does not apply to noise emitted from a construction site as a result of construction work carried out between 0700 hours and 1900 hours on any day which is not a Sunday or public holiday if the occupier of the premises ... shows that –

- a) *The construction work was carried out in accordance with control of environmental noise practices set out in section 4 of AS 2436-2010 Guide to noise and vibration control on construction, maintenance and demolition sites; and*
- b) *The equipment used on the premises was the quietest reasonably available; and*
- c) *If the occupier was required to prepare a noise management plan ... in respect of the construction site –*
 - i. *The noise management plan was prepared and given in accordance with the requirement, and approved by the Chief Executive Officer; and*
 - ii. *The construction work was carried out in accordance with the noise management plan, excluding any ancillary measure.*

2.2 Operational Phase

Environmental noise in Western Australia is governed by the *Environmental Protection Act 1986*, through the *Environmental Protection (Noise) Regulations 1997* (the *Regulations*).

Regulation 7 defines the prescribed standard for noise emissions as follows:

“7. (1) Noise emitted from any premises or public place when received at other premises –

- (a) Must not cause or significantly contribute to, a level of noise which exceeds the assigned level in respect of noise received at premises of that kind; and
- (b) Must be free of –
 - i. tonality;
 - ii. impulsiveness; and
 - iii. modulation,when assessed under regulation 9”

A “...noise emission is taken to significantly contribute to a level of noise if the noise emission ... exceeds a value which is 5 dB below the assigned level...”

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Tonality, impulsiveness and modulation are defined in Regulation 9. Noise is to be taken to be free of these characteristics if:

- (a) The characteristics cannot be reasonably and practicably removed by techniques other than attenuating the overall level of noise emission; and
- (b) The noise emission complies with the standard prescribed under regulation 7 after the adjustments of *Table 2-1* are made to the noise emission as measured at the point of reception.

Table 2-1 Adjustments Where Characteristics Cannot Be Removed

Where Noise Emission is Not Music			Where Noise Emission is Music	
Tonality	Modulation	Impulsiveness	No Impulsiveness	Impulsiveness
+ 5 dB	+ 5 dB	+ 10 dB	+ 10 dB	+ 15 dB

Note: The above are cumulative to a maximum of 15dB.

The baseline assigned levels (prescribed standards) are specified in Regulation 8 and are shown in *Table 2-2*.

Table 2-2 Baseline Assigned Noise Levels

Premises Receiving Noise	Time Of Day	Assigned Level (dB)		
		L _{A10}	L _{A1}	L _{Amax}
Noise sensitive premises: highly sensitive area ¹	0700 to 1900 hours Monday to Saturday (Day)	45 + influencing factor	55 + influencing factor	65 + influencing factor
	0900 to 1900 hours Sunday and public holidays (Sunday)	40 + influencing factor	50 + influencing factor	65 + influencing factor
	1900 to 2200 hours all days (Evening)	40 + influencing factor	50 + influencing factor	55 + influencing factor
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and public holidays (Night)	35 + influencing factor	45 + influencing factor	55 + influencing factor
Noise sensitive premises: any area other than highly sensitive area	All hours	60	75	80
Commercial	All hours	60	75	80
Industrial	All hours	65	80	90

1. *highly sensitive area* means that area (if any) of noise sensitive premises comprising —
 (a) a building, or a part of a building, on the premises that is used for a noise sensitive purpose; and
 (b) any other part of the premises within 15 metres of that building or that part of the building.

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As this is a predominantly rural zone, the influencing factor, applicable at the noise sensitive premises has been calculated as 0 dB. Therefore, it is the baseline assigned levels that would apply to this assessment.

It must be noted the assigned noise levels above apply outside the receiving premises and at a point at least 3 metres away from any substantial reflecting surfaces.

It is noted the assigned noise levels are statistical levels and therefore the period over which they are determined is important. The Regulations define the Representative Assessment Period (RAP) as *a period of time of not less than 15 minutes, and not exceeding 4 hours*, which is determined by an *inspector or authorised person* to be appropriate for the assessment of a noise emission, having regard to the type and nature of the noise emission. An *inspector or authorised person* is a person appointed under Sections 87 & 88 of the *Environmental Protection Act 1986* and include Local Government Environmental Health Officers and Officers from the Department of Environment Regulation. Acoustic consultants or other environmental consultants are not appointed as an *inspector or authorised person*.

3 METHODOLOGY

Computer modelling has been used to predict noise levels at each nearby receiver. The advantage of modelling is that it is not affected by background noise sources and can provide the noise level for various weather conditions and operating scenarios if necessary.

The software used was *SoundPLAN 8.2* with the CONCAWE algorithms selected. These algorithms have been selected as they include the influence of wind and atmospheric stability. Input data required in the model are:

- Meteorological Information;
- Topographical data;
- Ground Absorption; and
- Source sound power levels.

3.1.1 Meteorological Information

Meteorological information utilised is provided in *Table 3-1* and is considered to represent worst-case conditions for noise propagation. At wind speeds greater than those shown, sound propagation may be further enhanced, however background noise from the wind itself and from local vegetation is likely to be elevated and dominate the ambient noise levels.

Table 3-1 Modelling Meteorological Conditions

Parameter	Day (0700-1900)
Temperature (°C)	20
Humidity (%)	50
Wind Speed (m/s)	4
Wind Direction*	All
Pasquil Stability Factor	E

* Note that the modelling package used allows for all wind directions to be modelled simultaneously.

It is generally considered that compliance with the assigned noise levels needs to be demonstrated for 98% of the time, during the day and night periods, for the month of the year in which the worst-case weather conditions prevail. In most cases, the above conditions occur for more than 2% of the time and therefore must be satisfied.

3.1.2 Topographical Data

Topographical data was based on that publicly available from *GoogleEarth* in the form of spot heights, noting the topography is undulating.

3.1.3 Ground Absorption

Ground absorption varies from a value of 0 to 1, with 0 being for an acoustically reflective ground (e.g. water or bitumen) and 1 for acoustically absorbent ground (e.g. grass). In this instance, a value of 0.9 has been used as an average across the study area.

3.1.4 Source Sound Levels

The sound power levels used in the modelling are provided in *Table 3-2*.

Table 3-2 Source Sound Power Levels

Description	Octave Band Centre Frequency (Hz)								Overall dB(A)
	31.5	63	125	250	500	1k	2k	4k	
Striker Crusher	65	78	100	104	108	108	106	100	113
CAT 621 Scraper	71	82	100	103	107	107	106	100	113
Komatsu D-85 Dozer	69	86	101	106	103	107	104	99	112
CAT 130G Grader	72	83	101	104	108	108	107	101	114
Komatsu 380-6 Loader	90	103	101	99	97	94	89	85	107
Sumitomo EX321 Excavator	56	79	91	98	100	102	102	96	107
30 tonne haul truck at 20km/h	113	108	105	100	99	98	96	92	103
Iveco Water Tuck	75	85	94	99	101	102	98	94	107
Road Trucks at 20km/h	69	87	94	94	91	89	90	87	100

With regards to the above, please note the following:

- Levels derived from manufacturer's data or measurements of similar equipment;
- Sound level of a source represents the L₁₀
- Equipment operating at full capacity
- Height of mobile plant noise source assumed to be 2m above ground

4 RESULTS

The results are separated into four separate operations. These being:

- Removal of topsoil (Construction)
- Extraction of gravel;
- Hauling, crushing and stockpiling; and
- Loading out gravel.

4.1 Removal of Topsoil

The removal of topsoil and the construction of the required earth bunds will commence first and is considered to be a construction activity. Construction activities are covered under *regulation 13* of the Regulations and providing they are undertaken in a manner that is considered to be as quiet as reasonably practicable, are not required to comply with *regulation 7* of the Regulations.

The plant required for this phase of the operations are the dozer and the scraper. Predicted noise levels, representative of highest expected noise levels for each of the three cells before the construction of the bunds, are provided in *Table 4-1*.

Table 4-1 Predicted Noise Levels During Removal of Topsoil

Receiver Location	Predicted Noise Level L_{A10} dB	
	Cell 1	Cell 3
45 Boronia Rd	38	39
46 Boronia Rd	46	48
46 Boronia Rd 2	44	48
233 Wallis Rd	52	48
260 Fontana Rd	39	49
321 Wallis Road	47	43
345 Wallis Road	44	48
365 Wallis Rd	38	40

4.2 Extraction of Gravel

The extraction of gravel is part of the operation phase and must therefore comply with *regulation 7* of the Regulations.

For this scenario, it is assumed that the Excavator, Scraper and water cart would be operational and no other plant.

As mobile equipment of this nature would exhibit tonal noise characteristics, the results would need to be adjusted by +5 dB as detailed in *Table 2-1*, when comparing them against the assigned levels under the Regulations.

To achieve compliance with the Regulations, noise bunds are required and these are included in the results. The predicted (unadjusted) noise levels for each cell are provided in *Tables 4-2 to 4-4*.

4.2.1 Cell 1 Extraction

Cell 1 is divided into four stages, being 1, 3, 4 and 5. A noise bund located on the southwestern and eastern edges of the extraction area is required.

Table 4-2 Predicted Noise Levels During Extraction of Cell 1

Receiver Location	Predicted Noise Level L_{A10} dB			
	Stage 1	Stage 3	Stage 4	Stage 5
45 Boronia Rd	29	30	31	30
46 Boronia Rd	38	39	40	40
46 Boronia Rd 2	36	36	38	37
233 Wallis Rd	37	37	37	36
260 Fontana Rd	21	22	30	33
321 Wallis Road	36	35	36	36
345 Wallis Road	29	28	30	36
365 Wallis Rd	23	23	24	29

The predicted (unadjusted) noise level representative of the highest emission, being Stage 4, is presented in *Figure 4-1*. Details of the required noise bunds are presented in *Figure 4-2*.

Figure 4-1

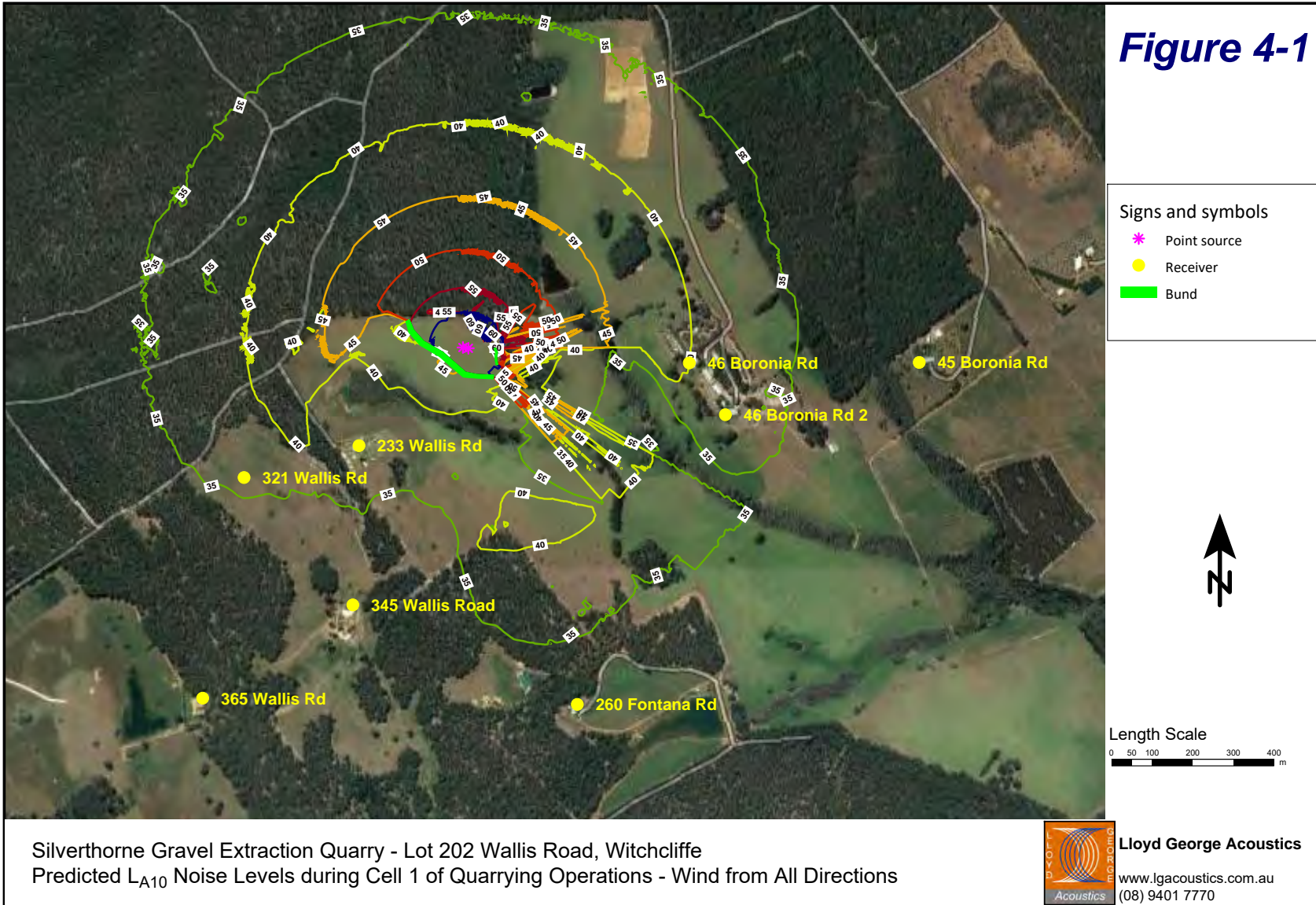




Figure 4-2

Silverthorne Gravel Extraction Quarry - Lot 202 Wallis Road, Witchcliffe
 Extraction Phase Noise Bund - Cell 1

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4.2.2 Cell 3 Extraction

Cell 3 is divided into five stages. A noise bund is required and must be modified during the extraction process for each stage. It is assumed that only the bund required for the particular stage is constructed and the bund from previous stages has been removed.

Table 4-3 Predicted Noise Levels During Extraction of Cell 3

Receiver Location	Predicted Noise Level L_{A10} dB				
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
45 Boronia Rd	30	30	30	31	31
46 Boronia Rd	39	39	38	38	38
46 Boronia Rd 2	38	39	38	39	39
233 Wallis Rd	39	36	39	37	37
260 Fontana Rd	38	40	29	31	34
321 Wallis Road	27	27	35	34	33
345 Wallis Road	29	32	40	39	38
365 Wallis Rd	20	23	32	32	31

The predicted (unadjusted) noise level representative of the highest emission, being Stage 3, is presented in *Figure 4-3*. Details of the required noise bunds are presented in *Figure 4-4*.

Figure 4-3

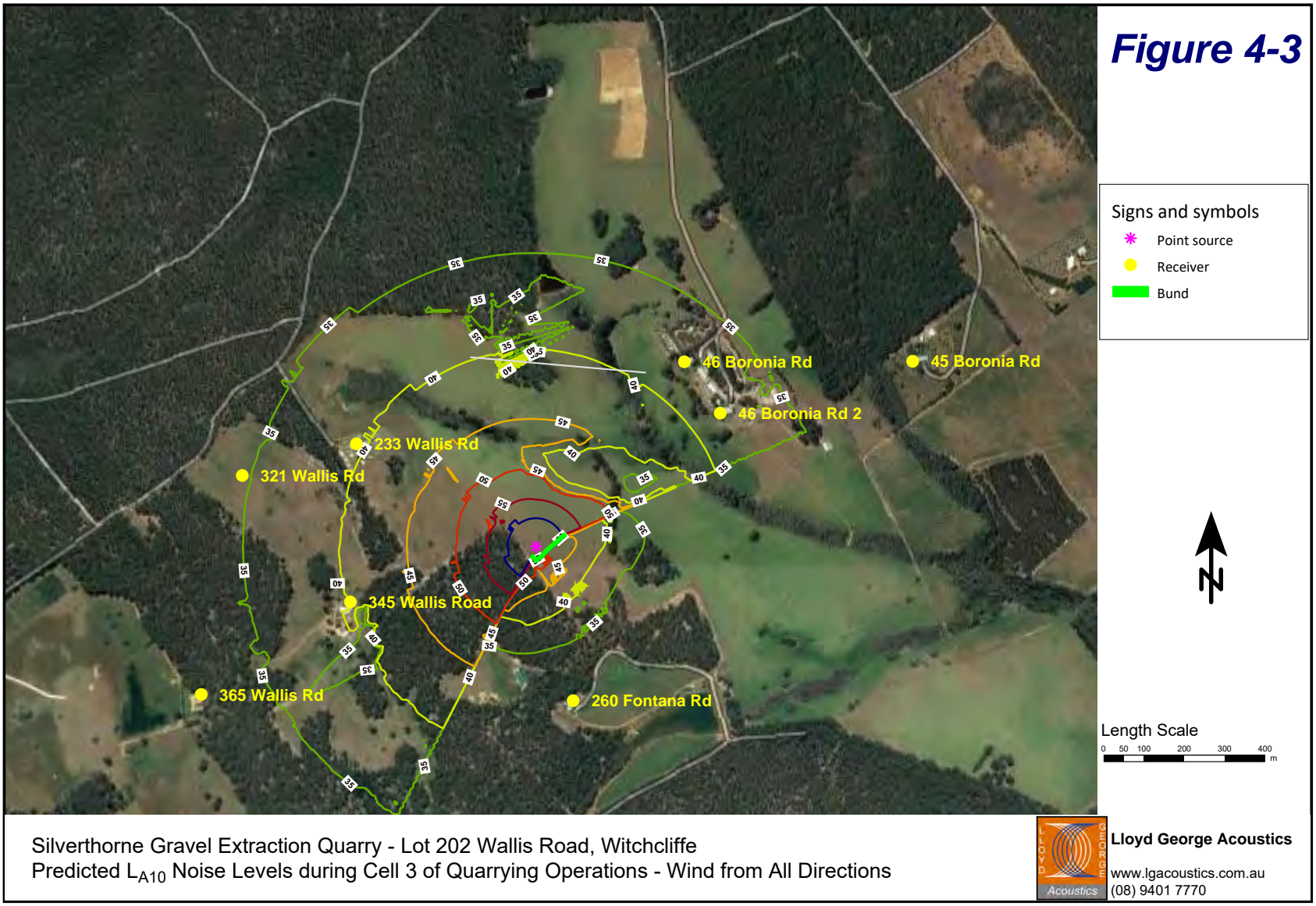
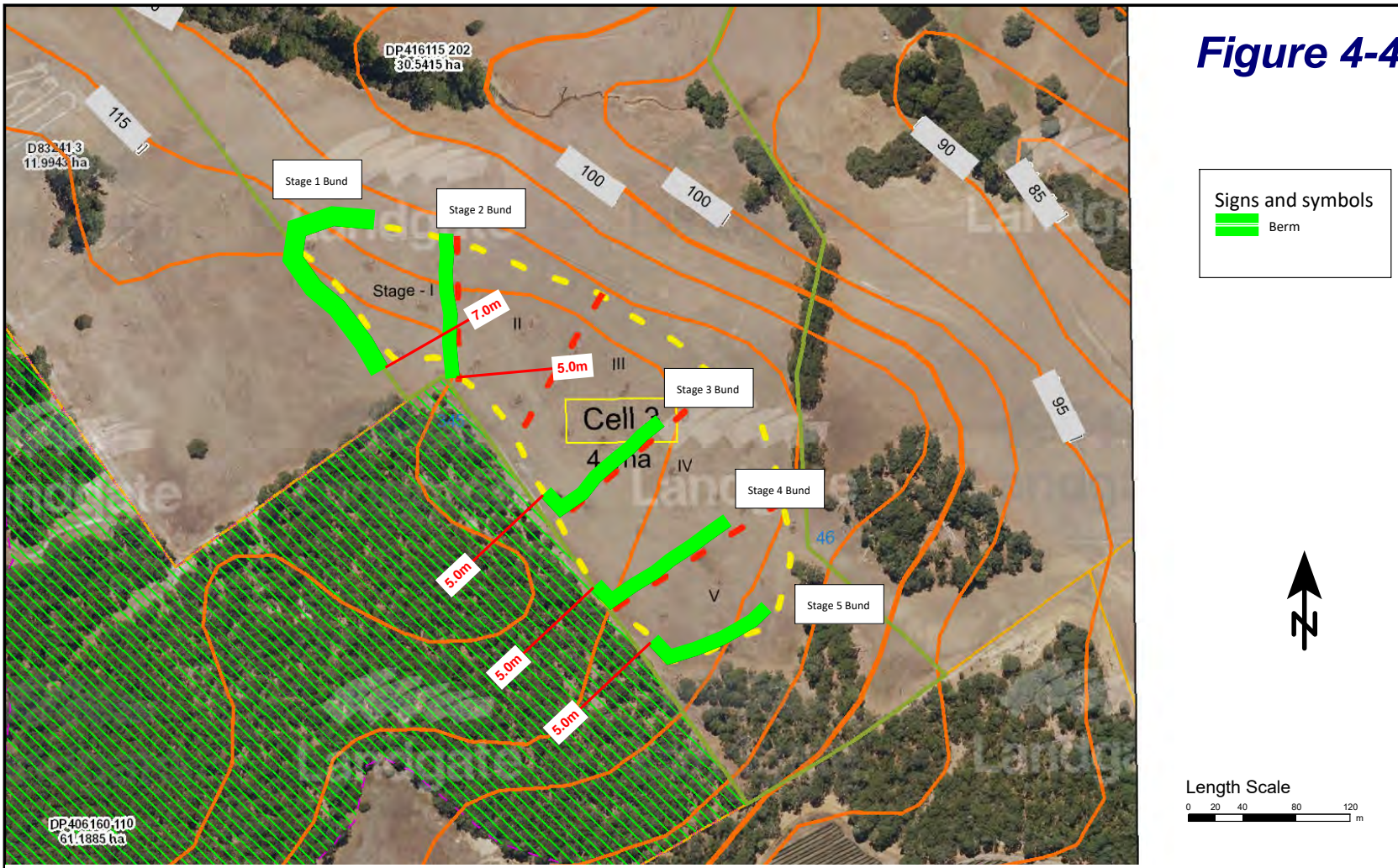


Figure 4-4



Silverthorne Gravel Extraction Quarry - Lot 202 Wallis Road, Witchcliffe
 Extraction Phase Noise Bunds - Cell 3



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4.3 Hauling, Crushing and Stockpiling

The hauling, crushing and stockpiling is part of the operation phase of the quarry and must therefore comply with *regulation 7* of the Regulations.

For this scenario, it is assumed that the Crusher and Excavator are working together in the north of the property and the haul trucks and water carts are operating on the haul road. No other plant is operational.

As mobile equipment of this nature would exhibit tonal noise characteristics, the results would need to be adjusted by +5 dB as detailed in *Table 2-1*, when comparing them against the assigned levels under the Regulations.

For hauling operations, it is assumed that two haul trucks will be operating simultaneously. Each haul truck will complete two loads in an hour, and would travel at a speed of approximately 20 km/h along the haul road. To manage the dust, the water cart would also be operating on the haul road.

As the haul trucks are mobile and operational for more than 10% of the time, the L_{A10} noise level is calculated by predicting the noise to each receiver as the haul truck moves 10m. This is illustrated in *Figure 4-5*, which represents the receiver at 46 Boronia Road during hauling from Cell 3.

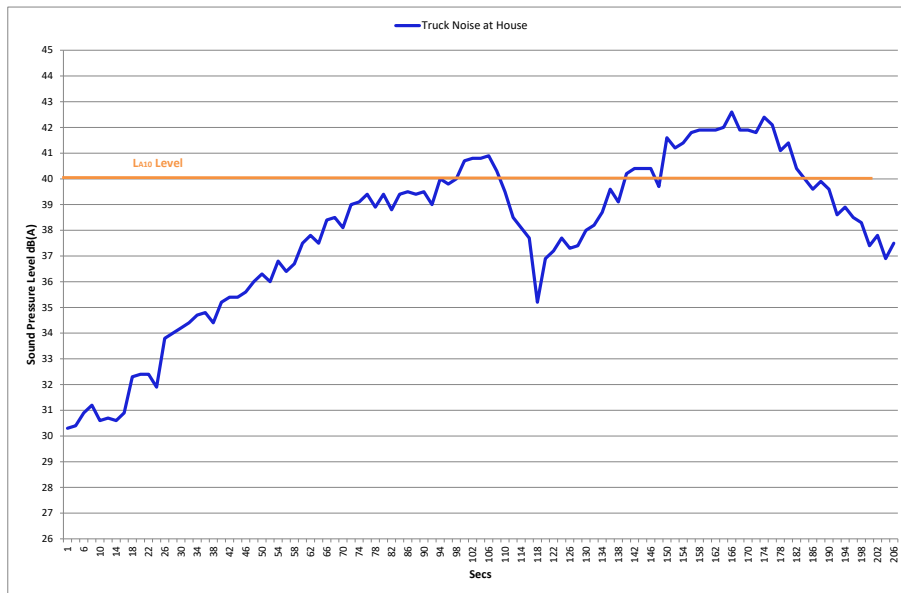


Figure 4-5 Predicted Noise Level from Haul Truck Movement at 46 Boronia Road

Assuming each haul truck completes two loads in an hour, the predicted (unadjusted) noise level at 46 Boronia Road, being the worst affected receiver, is L_{A10} 40 dB.

While the haul trucks are operating, a water cart will be employed to manage the dust emissions. It is assumed that the water cart will travel the length of the haul road once an hour. The time taken for the water cart to water the haul road would be less than 24 minutes in any four-hour period, therefore only the L_{A1} noise level would be relevant. In the same way that the noise from the haul truck is calculated, the predicted (unadjusted) noise level at Boronia Road, being the worst affected receiver, is L_{A1} 38 dB.

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Crushing and screening and stockpiling operations will occur in the north of the property. To ensure that the noise from the crushing and screening does not influence the overall noise levels, when combined with the haul trucks, a 3.0m high earth bund must be placed to the south of the crushing and screening plant and this is assumed in the results.

The predicted (unadjusted) L_{A1} and L_{A10} noise level for each component of this phase, together with the combined noise level at each receiver location is provided in *Tables 4-4 and 4-5* respectively. Predicted (unadjusted) L_{A10} noise levels are shown graphically in *Figure 4-6*.

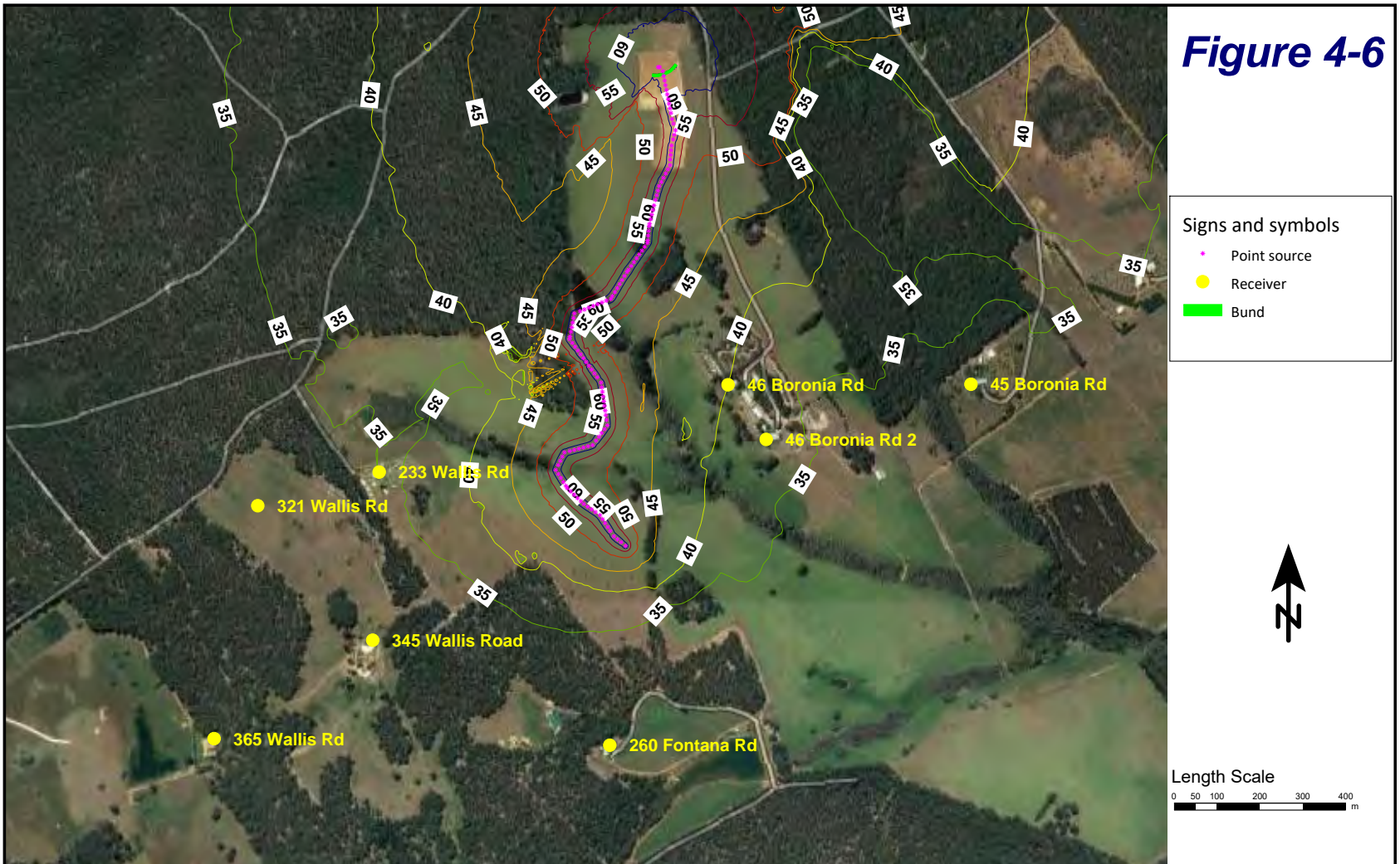
Table 4-4 Predicted L_{A1} Noise Levels During Hauling, Crushing & Stockpiling for Cell 3

Receiver Location	Predicted Noise Level L_{A1} dB				Compliance with Regulations
	Hauling	Water Cart	Crushing & Stockpiling	Combined	
45 Boronia Rd	31	27	31	35	Yes
46 Boronia Rd	42	38	30	43	Yes
46 Boronia Rd 2	39	35	29	40	Yes
233 Wallis Rd	36	32	24	38	Yes
260 Fontana Rd	27	23	18	28	Yes
321 Wallis Road	31	27	30	34	Yes
345 Wallis Road	31	27	20	33	Yes
365 Wallis Rd	24	20	16	26	Yes

Table 4-5 Predicted L_{A10} Noise Levels During Hauling, Crushing & Stockpiling for Cell 3

Receiver Location	Predicted Noise Level L_{A10} dB				Compliance with Regulations
	Hauling	Water Cart	Crushing & Stockpiling	Combined	
45 Boronia Rd	29	NA	31	33	Yes
46 Boronia Rd	40	NA	30	40	Yes
46 Boronia Rd 2	37	NA	29	38	Yes
233 Wallis Rd	34	NA	24	34	Yes
260 Fontana Rd	25	NA	18	26	Yes
321 Wallis Road	29	NA	30	33	Yes
345 Wallis Road	29	NA	20	30	Yes
365 Wallis Rd	22	NA	16	23	Yes

Figure 4-6



Signs and symbols

- Point source
- Receiver
- █ Bund

North Arrow

Length Scale
 0 50 100 200 300 400 m

Silverthorne Gravel Extraction Quarry - Lot 202 Wallis Road, Witchcliffe
 Predicted L_{A10} Noise Levels during Hauling and Crushing Operations - Wind from All Directions

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4.4 Loading Out

Loading out the gravel is part of the operation phase and must therefore comply with *regulation 7* of the Regulations.

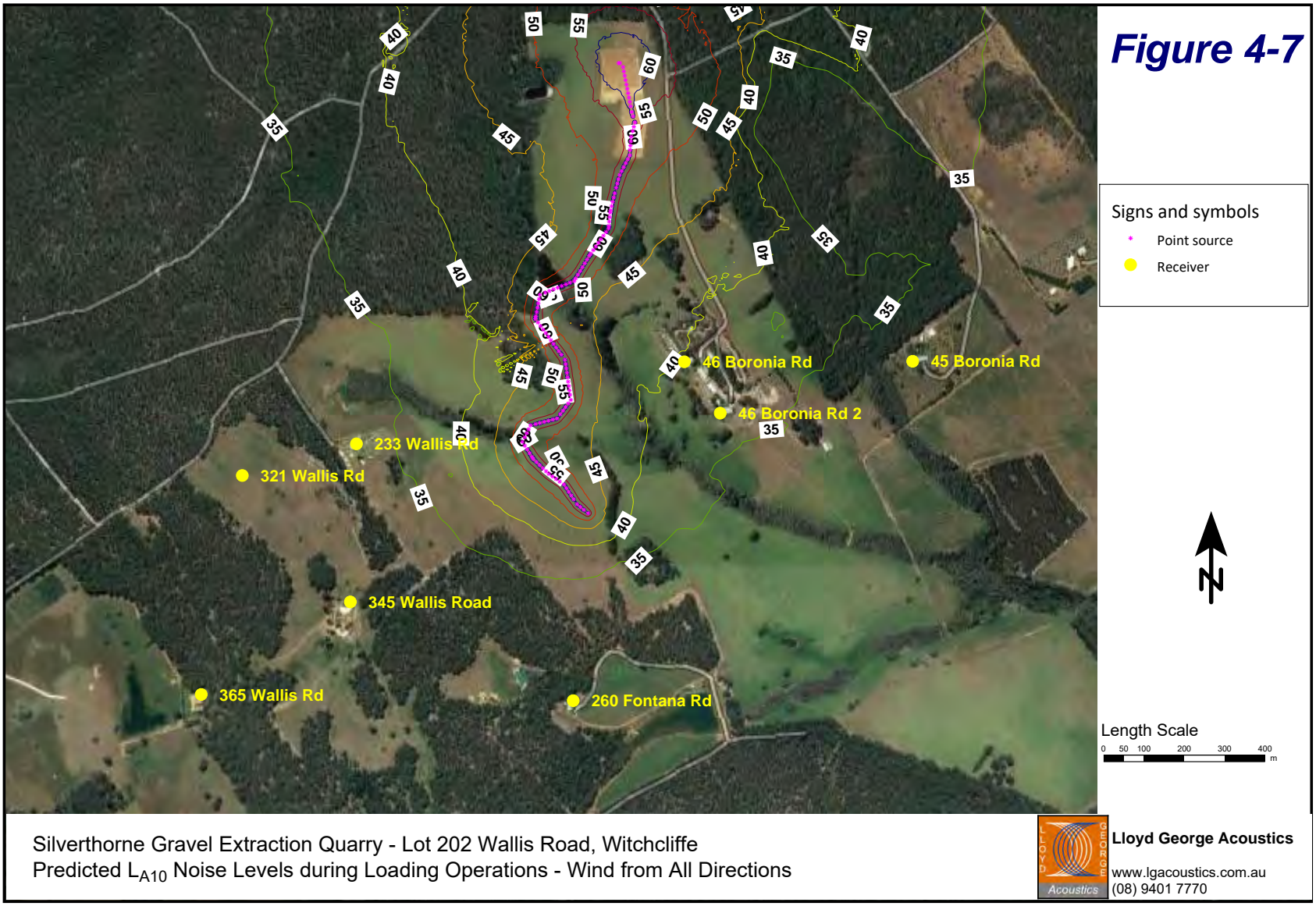
For this scenario, it is assumed that the loader and trucks, moving at slow speed, are working together and the water cart is watering the haul road once per hour. No other plant is operational. The loading will occur at the northern end of the site where the crushing and screening occurred. While the results do not include the noise bund required for the crusher, it would be good practice for the loader to work behind a bund or stockpile when practicable.

As mobile equipment of this nature would exhibit tonal noise characteristics, the results would need to be adjusted by +5 dB as detailed in *Table 2-1*, when comparing them against the assigned levels under the Regulations.

Predicted (unadjusted) L_{A10} noise levels are provided in *Table 4-6* and shown graphically in *Figure 4-7*.

Table 4-6 Predicted L_{A10} Noise Levels During Loading Out

Receiver Location	Predicted Noise Level L_{A10} dB	Compliance with Regulations
45 Boronia Rd	31	Yes
46 Boronia Rd	40	Yes
46 Boronia Rd 2	37	Yes
233 Wallis Rd	33	Yes
260 Fontana Rd	28	Yes
321 Wallis Road	30	Yes
345 Wallis Road	29	Yes
365 Wallis Rd	24	Yes



5 CONCLUSION

The results of this assessment has shown that with the proposed plant and noise control in the form of earth bunds, as detailed in *Section 4*, compliance with the assigned noise levels under the *Environmental Protection (Noise) Regulations 1997* can be achieved for all stages of the quarry life.

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Appendix A

Terminology

The following is an explanation of the terminology used throughout this report.

Decibel (dB)

The decibel is the unit that describes the sound pressure and sound power levels of a noise source. It is a logarithmic scale referenced to the threshold of hearing.

A-Weighting

An A-weighted noise level has been filtered in such a way as to represent the way in which the human ear perceives sound. This weighting reflects the fact that the human ear is not as sensitive to lower frequencies as it is to higher frequencies. An A-weighted sound level is described as L_A dB.

Sound Power Level (L_w)

Under normal conditions, a given sound source will radiate the same amount of energy, irrespective of its surroundings, being the sound power level. This is similar to a 1kW electric heater always radiating 1kW of heat. The sound power level of a noise source cannot be directly measured using a sound level meter but is calculated based on measured sound pressure levels at known distances. Noise modelling incorporates source sound power levels as part of the input data.

Sound Pressure Level (L_p)

The sound pressure level of a noise source is dependent upon its surroundings, being influenced by distance, ground absorption, topography, meteorological conditions etc and is what the human ear actually hears. Using the electric heater analogy above, the heat will vary depending upon where the heater is located, just as the sound pressure level will vary depending on the surroundings. Noise modelling predicts the sound pressure level from the sound power levels taking into account ground absorption, barrier effects, distance etc.

L_{ASlow}

This is the noise level in decibels, obtained using the A frequency weighting and the S (Slow) time weighting as specified in IEC 61672-1:2002. Unless assessing modulation, all measurements use the slow time weighting characteristic.

L_{AFast}

This is the noise level in decibels, obtained using the A frequency weighting and the F (Fast) time weighting as specified in IEC 61672-1:2002. This is used when assessing the presence of modulation only.

L_{APeak}

This is the greatest absolute instantaneous sound pressure in decibels using the A frequency weighting as specified in IEC 61672-1:2002.

L_{Amax}

An L_{Amax} level is the maximum A-weighted noise level during a particular measurement.

L_{A1}

An L_{A1} level is the A-weighted noise level which is exceeded for one percent of the measurement period and is considered to represent the average of the maximum noise levels measured.

L_{A10}

An L_{A10} level is the A-weighted noise level which is exceeded for 10 percent of the measurement period and is considered to represent the "intrusive" noise level.

L_{Aeq}

The equivalent steady state A-weighted sound level ("equal energy") in decibels which, in a specified time period, contains the same acoustic energy as the time-varying level during the same period. It is considered to represent the "average" noise level.

L_{A90}

An L_{A90} level is the A-weighted noise level which is exceeded for 90 percent of the measurement period and is considered to represent the "background" noise level.

One-Third-Octave Band

Means a band of frequencies spanning one-third of an octave and having a centre frequency between 25 Hz and 20 000 Hz inclusive.

L_{Amax} assigned level

Means an assigned level which, measured as a $L_{A\text{ Slow}}$ value, is not to be exceeded at any time.

L_{A1} assigned level

Means an assigned level which, measured as a $L_{A\text{ Slow}}$ value, is not to be exceeded for more than 1% of the representative assessment period.

L_{A10} assigned level

Means an assigned level which, measured as a $L_{A\text{ Slow}}$ value, is not to be exceeded for more than 10% of the representative assessment period.

Tonal Noise

A tonal noise source can be described as a source that has a distinctive noise emission in one or more frequencies. An example would be whining or droning. The quantitative definition of tonality is:

the presence in the noise emission of tonal characteristics where the difference between -

- (a) the A-weighted sound pressure level in any one-third octave band; and
- (b) the arithmetic average of the A-weighted sound pressure levels in the 2 adjacent one-third octave bands,

is greater than 3 dB when the sound pressure levels are determined as $L_{Aeq,T}$ levels where the time period T is greater than 10% of the representative assessment period, or greater than 8 dB at any time when the sound pressure levels are determined as $L_{A\text{ Slow}}$ levels.

This is relatively common in most noise sources.

Modulating Noise

A modulating source is regular, cyclic and audible and is present for at least 10% of the measurement period. The quantitative definition of modulation is:

a variation in the emission of noise that —

- (a) is more than 3 dB $L_{A\text{ Fast}}$ or is more than 3 dB $L_{A\text{ Fast}}$ in any one-third octave band;
- (b) is present for at least 10% of the representative.

Impulsive Noise

An impulsive noise source has a short-term banging, clunking or explosive sound. The quantitative definition of impulsiveness is:

a variation in the emission of a noise where the difference between $L_{A\ peak}$ and $L_{A\ Max\ slow}$ is more than 15 dB when determined for a single representative event;

Major Road

Is a road with an estimated average daily traffic count of more than 15,000 vehicles.

Secondary / Minor Road

Is a road with an estimated average daily traffic count of between 6,000 and 15,000 vehicles.

Influencing Factor (IF)

$$= \frac{1}{10} (\% \text{ Type A}_{100} + \% \text{ Type A}_{450}) + \frac{1}{20} (\% \text{ Type B}_{100} + \% \text{ Type B}_{450})$$

where :

% Type A₁₀₀ = the percentage of industrial land within
a 100m radius of the premises receiving the noise

% Type A₄₅₀ = the percentage of industrial land within
a 450m radius of the premises receiving the noise

% Type B₁₀₀ = the percentage of commercial land within
a 100m radius of the premises receiving the noise

% Type B₄₅₀ = the percentage of commercial land within
a 450m radius of the premises receiving the noise

+ Traffic Factor (maximum of 6 dB)

= 2 for each secondary road within 100m

= 2 for each major road within 450m

= 6 for each major road within 100m

Representative Assessment Period

Means a period of time not less than 15 minutes, and not exceeding four hours, determined by an inspector or authorised person to be appropriate for the assessment of a noise emission, having regard to the type and nature of the noise emission.

Background Noise

Background noise or residual noise is the noise level from sources other than the source of concern. When measuring environmental noise, residual sound is often a problem. One reason is that regulations often require that the noise from different types of sources be dealt with separately. This separation, e.g. of traffic noise from industrial noise, is often difficult to accomplish in practice. Another reason is that the measurements are normally carried out outdoors. Wind-induced noise, directly on the microphone and indirectly on trees, buildings, etc., may also affect the result. The character of these noise sources can make it difficult or even impossible to carry out any corrections.

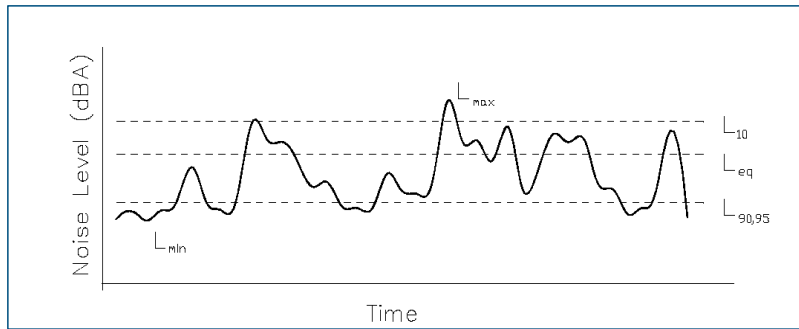
Ambient Noise

Means the level of noise from all sources, including background noise from near and far and the source of interest.

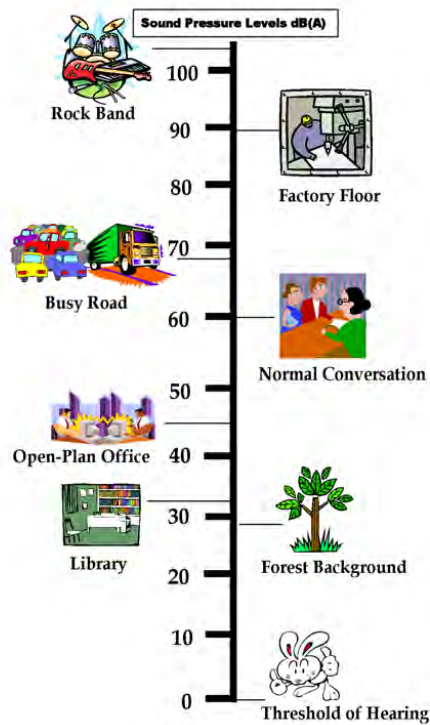
Specific Noise

Relates to the component of the ambient noise that is of interest. This can be referred to as the noise of concern or the noise of interest.

Chart of Noise Level Descriptors



Typical Noise Levels



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7 SITE MANAGEMENT PLANS

APPENDIX H – DUST MANAGEMENT PLAN

APPENDIX I – DIEBACK MANAGEMENT PLAN

APPENDIX J – WATER MANAGEMENT PLAN

APPENDIX K – REHABILITATION MANAGEMENT PLAN

7 SITE MANAGEMENT PLANS

APPENDIX H - DUST MANAGEMENT PLAN

The following dust management plan will be implemented during the life of the extraction operation to ensure that dust levels cannot possibly reach levels that could adversely affect the environmental values of health, welfare and amenity of people and land uses in the immediate vicinity.

Potential impacts: Specific aspects of the proposed operations that can contribute to dust include:

- Earthworks and haulage.
- Open areas may be a source of dust during adverse weather conditions.
- Windborne dust from exposed surfaces such as cleared land
- Windborne dust from stockpiles of materials such as sand and gravel.

It is important to isolate the source of potential dust nuisance. The dust management regimes incorporated into this plan are applicable to the location of extraction works on-site and the internal road network associated with this.

Risk Details

The potential for windblown dust to be generated on the excavation site is moderate.

The amount of dust generated depends on planning, weather, activities, materials to be excavated and controls in place.

Machinery plant emissions can generate other forms of air pollution. Excessive amounts of exhaust emission results in poorly maintained machinery.

Management Actions and Preventative Measures

- Topsoil / noise bund will be up to 7 metres in height.
- The topsoil will be placed at the front and on top of the bund and will be watered to stabilize the bunds and seeded to achieve vegetation cover (grass/cover crops e.g., cereal rye).
- Minimise area impacted on and the time between extraction and rehabilitation (maximum 2 hectares open at any one time).
- Education of employees and contractors to raise awareness of dust management measures.
- Managing operations to minimise dust emissions during windy conditions. Timing of earthworks (daily and seasonally) will coincide with periods of low wind velocity. Operations will cease if winds are observed on site to exceed 25 knots.
- Truck loads to be covered by tarpaulins.
- A dust complaint system will be put in place. This will include the erection of a notice at the site gate, providing contact details of the site manager. Any complains relating to dust will

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be recorded by the site manager and acted on promptly. Details to be recorded in the complaints register will include the following:

- Name and contact details of the complaint;
 - The date and time of complaint and date and time of when the incident initiating the complaint was first noticed by the complainant;
 - Details of the complaint including actual impacts of the incident;
 - Action taken by the site manager and outcomes of the action including any follow up with the complainant; and
 - If no action was undertaken or deemed necessary, details on how the issue was resolved with the complainant.
- Other factors that will assist in dust management include:
 - Distance between occupied residences and the active pit area.
 - Existing vegetation: Vegetation along with road reserves and on some adjoining properties provides a windbreak to reduce wind velocity and minimise dust mobilisation/transport in the first instance. The existing vegetation also acts as a filter to impede airborne dust leaving the site in this direction
 - Water, when required, will be sourced from existing the dam on the property or from the contractor's main premises.
 - Management actions will be amended as required to meet objectives. A review will also be initiated if there are any major changes to the proposal. Its operations or in response to any future issues raised by:
 - The AMR Shire;
 - The DWER, DBCA, EPA; or
 - Members of the public.

A copy of this management plan will be always available in site offices and/or company vehicles for reference.

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APPENDIX I - DIEBACK MANAGEMENT PLAN

The management plan consists of a pathogen management strategy for the extraction, transport and/or use of raw sand and gravel and refers to the: "Management of Phytophthora Dieback in Extractive Industries"; Best practise guidelines; Dieback Working Group 2018.

Due to the absence of indicator plants (host) and recent disturbance, the extraction sites / cells will be managed as UNINTERPRETABLE:

"Sites that are deemed uninterpretable should be treated using the precautionary principle, and as such, hygiene guidelines (signage, plant cleanliness and containment of surface water) should be applied. In some instances, uninterpretable sites may be easier to be considered as Dieback infected, and emphasis should be placed on the management of the topsoil. "; Quote [2]

To confirm that the extracted raw material is free of Dieback, regular soil tests shall be undertaken.

Implementation of the DMP:

The contractor appreciates the immense threat being posed by Dieback to the South West and is committed to managing and controlling the biodiversity threat of Phytophthora Dieback, as required by the AMR Shire and all other relevant local government agencies.

The following Dieback Management Strategy will be implemented during the life of the extraction operation to control the risk of Dieback generated from site works and the activities associated with the project.

Review, approving and monitoring of the DMP:

The AMR Shire (in cooperation with the operation contractor and landowner) is responsible for reviewing, approving and monitoring the implementation of the DMP. Any conditions shall be outlined in the Development Approval Letter or Licence documents.

Managed activities for extraction, transport and use of raw material:



Action	Rationale
1 - Staff Training and Education	Train all staff about Phytophthora Dieback, its impact and management and gain "Green Card Certification" provided by the Dieback Working Group (in Busselton)
2 – Operation Timing	Conduct operations during dry conditions and driest times of the year around summer. (No soil, raw material or dirt should adhere to the underneath and tyres of trucks.)

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3 – Water management	Water used on site should be from main supplies. If water taking from the dam it should be sterilised with fungicide prior to use it.
4 – Drainage management	All run-off should be contained in an evaporation pond and not enter sensitive areas or nearby watercourses. Limestone makes an ideal material for use in construction of the stockpile area due to its high pH being very suppressive of Phytophthora Dieback.
5 - Containment of surface water on-site	Surface and sub-surface water are an efficient means for the spread of Phytophthora Dieback. Furthermore, increases in soil moisture can greatly increase the impact of the pathogen on surrounding native vegetation.
6 - Signage	<p>Inform personnel entering the site may be infested with Phytophthora Dieback.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
7 - Secure site	Secure the site using fencing to prevent uncontrolled access and to quarantine the excavation area.
8 - Plant cleanliness	Clean-on-entry and Clean-on-exit. Vehicles, equipment and footwear should be cleaned prior to entering site and before exiting the site.
9 - Customer notification	Advise potential customers that the material is presumed to be infested with Phytophthora Dieback. Regular soil tests shall be undertaken to enhance confidence that the extracted raw material is free of Dieback.

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	Albeit raw material shall not be used in native bushland areas classified as Dieback free or uninterpretable.
10 - Raw material Transport and dust management	Truck loads to be covered by tarpaulins. Refer to the Dust-Mng-Plan and apply actions and preventative measures.
11 - Work down slope (presumption of dieback infestation)	If the area is Dieback free, then the last area worked will be at the bottom of the slope, where it can possibly be Dieback infected. The longer the operation, the greater the risk that Dieback will be introduced and it will spread downslope. If Dieback exists, it is most likely to be at the bottom of the slope. Working up-slope will spread the Dieback. If Dieback is upslope, it will naturally spread downslope, working in a downslope direction does not add much risk.
12 - Rehabilitate using Phytophthora Dieback free materials in Phytophthora Dieback free areas	Only bring in certified Phytophthora Dieback free materials (e.g. soil, mulch and compost). Purchase plants from accredited nurseries. Consider direct seeding rather than planting seedlings.

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Hygiene

NOTE: All hygiene actions for operations and transport should be managed in a way that the PIT IS DIEBACK FREE! (To avoid introducing Dieback!)

Actions for cleaning equipment and vehicles

- Complete cleaning at a depot or designated cleaning area.

Field-based cleaning requires:

- A hard, well-drained surface (e.g. road) that is well away from native vegetation.
- Use dry-cleaning methods (air compressor, brushes) to remove soil and dirt from equipment/vehicles.
- Clean down on ramps if possible. To reach the underneath of trucks.
- Pay particular attention to mudflaps and tyres.
- Do not drive through dirt and soil generated from cleaning when exiting the cleaning facility.
- Collect all removed dirt and soil to be appropriate disposed off the site.

Actions for cleaning footwear

- Remove dirt and soil immediately prior to entry and prior to exit of pit.
- Remove dirt and soil as possible with a stiff brush or stick and minimise the amount of water used.
- Collect all removed dirt and soil to be appropriate disposed off the site.

Actions for sterilising

- Sterilisation of equipment, footwear and vehicle tyres can be used to take an extra precaution if the area is identified as high risk.

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Loading and transportation

Split phase operations shall be applied to preventing the spread of *Phytophthora* Dieback

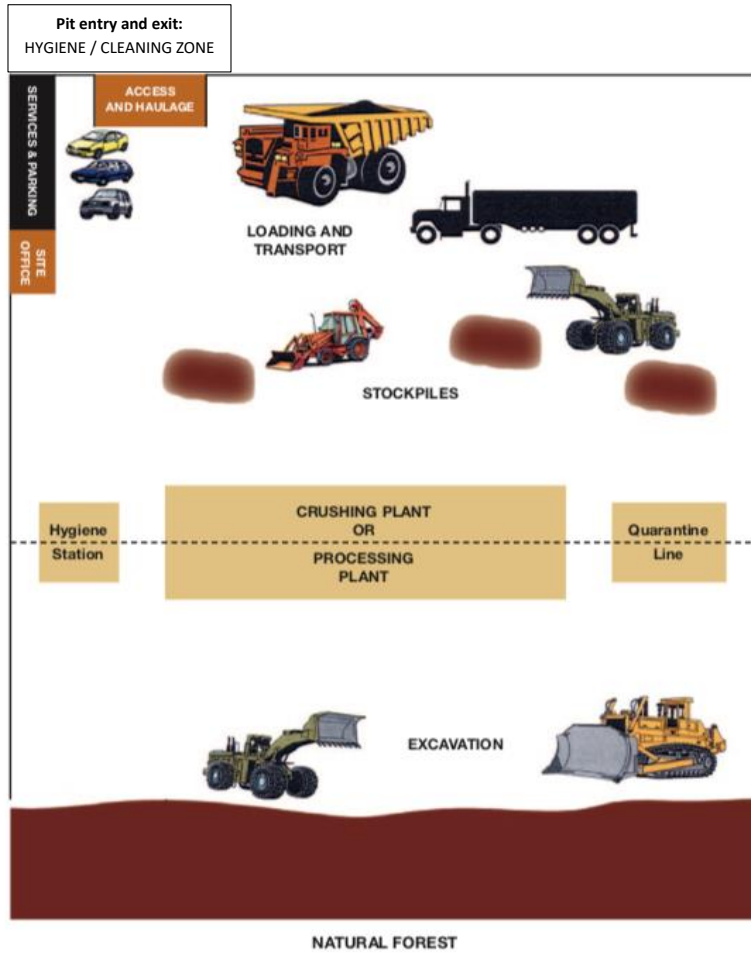


Figure 8.2. An example of a split phase operation that separates the excavation and loading/processing activities within a quarry (Noel Eddington).

The aim of a split phase operation is to have vehicles, machinery and equipment enter areas only when they have been cleaned. Extraction vehicles and machinery can then move freely within the quarantined area. Trucks and machinery used for stockpiling and loading are kept separate from the extraction (pit) area.

Stockpiling of the extracted material should occur on the border of the extraction and loading designated areas.

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Light and non-essential vehicles should be restrained to a defined parking area adjacent to the access road and should not have access to the transport or excavation area at any time.

Phytophthora Dieback-free construction materials should be used to ensure the pathogen is not introduced or spread during the construction of haulage/access roads. (Limestone makes an ideal material for use in the construction of the stockpile and loading areas due to its high pH being very suppressive of *Phytophthora* Dieback.)

Construction of roads and turn around points should occur in dry soil conditions (November to April and postponed following rain).

Sealing roads with asphalt can significantly reduce the chance of accidentally introducing the pathogen into the native plant communities that the haulage/access roads dissect.

A copy of this management plan will be available in site offices and/or company vehicles for reference at all times.

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APPENDIX J - WATER MANAGEMENT PLAN

The following surface water management plan will be implemented during the life of the project to ensure no erosion or escape of silty water (nutrients, spill) from the excavation site or from associated stockpiles will occur.

As a minimum, a 1 in 20-year flood event must be catered for with all stormwater run-off from exposed areas being initially contained on site as shown on the site plans (refer to Appendix A and B).

Management Actions:

- The proposed extraction site is 7.5 ha in surface area and is divided into three (3) cells and ten (10) stages. As such no more than one stage or an area around 0.9ha will be opened and actively worked in at any stage.
- Upon commencement of work with an active cell, small bunds and swales will be installed to assist with drainage management. These bunds/swales will be constructed around the active extraction areas to divert surface water run-off into the stormwater retention sumps.
- The stormwater retention sumps will be excavated where point flows are draining via swale drains towards the watercourse, as shown in the site plan. These will be of a capacity to capture the surface flow from a 1 in 20 storm events. The dimensions shall be 20m x 10m x 2m deep.
- Reeds, rushes and shrubs planted in the sumps shall be acting as a biofiltering system to absorb nutrients; selected species with extensive and fine root systems: [1]
e.g. *Carex appressa*, *Carex tereticaulis*, *Juncus pallidus*, *Mealeuca incana*.
- In preparation for the wetter months, the following will be undertaken:
 - 1) The deck area will be levelled, directing water flows to the stormwater retention sumps.
 - 2) Finished cells will be closed and rehabilitated, including seeding if seasonal conditions allow.
- Plant location and refuelling shall be undertaken outside the boundary of the open pit at all times such that it is located furthest from the watercourses.

[1] B. Oversby, E. Payne, T. Fletcher, G. Byleveld, and B. Hatt, *Vegetation guidelines for stormwater biofilters in the southwest of Western Australia*, no. November. Melbourne: Monash University, 2014.

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- If a spill is to occur, the following measures will be undertaken:
 - 1) All work will cease immediately.
 - 2) The affected area will be excavated and stockpiled on impermeable plastic or other impermeable material until it can be removed from the site.
 - 3) If any vehicles or plant equipment are contaminated, they will be removed from the site immediately and cleaned.
 - 4) The incident will be recorded in a logbook, including the amount of spill that occurred; and
 - 5) The Shire will be contacted for further advice.

NOTE: The proponent is advised to draw upon the Departments Water Quality Protection Note (WQPN) 10 - Contaminant spills – emergency response if appropriate for the site situation.

- The extractions will not intercept at any time with the groundwater as the depth of the proposed excavation will provide at least >1200mm vertical separation distance to the Maximum Seasonal Groundwater Level (MSGL). Visual monitoring to detect potential groundwater interception due to unpredictable weather and rainfall conditions will be carried out at any times.
- If ANY interception of groundwater occurs, work shall cease, and advice noticed provided to the Shire within 72 hours, followed by an agreed remedial action.
- Management actions will be amended as required to meet objectives. A review will also be initiated if there are any major changes to the proposal, its operations or in response to any future issues raised by: The AMR Shire; DWER, DBCA, EPA or Members of the public.
- **Maintenance Schedule** - The swale drains, bunds, and silting ponds are to continue to perform their functions after a large storm event. Where maintenance works may be required (including but not limited to desilting the ponds or swales) and repairing any eroded bunds as necessary, details in relation to how this will occur are to be submitted and endorsed by the Shire and thereafter implemented and maintained by the landowners to the satisfaction of the Shire. Maintenance of silt pits should occur annually to ensure that capacity isn't lost through build-up of silt.

A copy of this management plan will be available in site offices and/or company vehicles for reference at all times.

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Appendix K - REHABILITATION MANAGEMENT PLAN

The client is proposing to reinstate the overburden and the topsoil following the extraction of material and return the area to productive land for agricultural pursuits, with a minimum post-mining-separation distance from the groundwater >1500mm.

Rehabilitation of the excavated areas will be progressive and will be staged as follows:

- All areas will be filled and graded to levels and contours conforming to the adjacent unaffected areas.
- Deep ripping along the contours at 2-metre intervals will occur in the base of the pit sites where the soils' low permeability is expected.
- Cell batters will be cut to no more than 1 in 5
- Stormwater retention sumps and drains will be retained to be vegetated with riparian species and function as biofilter systems.
- Overburden and topsoil will be spread over the shaped surfaces at a thickness of 200mm – 300mm.
- Revegetation of pasture grasses will be carried out in autumn with a mixture of oats, rye and clover at a rate of 60/25/5kg. Fertiliser will be applied at a rate of 240kg/ha.
- The site plan contains a list of detailed notes relating to the performance and rehabilitation of the proposed extraction industry area.

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Attachment 2 – Schedule of Submissions

P221460 – 46 (Lot 201/202) Boronia Road, Rosa Glen

Summary of Submissions	
<p>The application was advertised twice to the surrounding community. The first advertising period received seven (7) objections from surrounding residents and ultimately resulted in amendments being proposed to the proposal by the applicant. Following the amendments by the applicant, the Shire re-advertised the proposal.</p> <p>The amended proposal received seven (7) objections, with submitters raising similar concerns as originally raised. A summary of the submissions based on issue from both advertising periods are provided below.</p>	
<p>Extractive Industry Operation:</p> <ul style="list-style-type: none"> • The amended timeframe for extraction of two (2) years does not mitigate the impact on dwellings or remove potential noise and dust impacts. The proposal is not supported by all submitters regardless of the timeframe proposed. • The proposed operating hours are not supported, with extraction proposed for 11 hours on Monday – Friday and until 1:00pm on Saturday. The Shire draft LPP3 restricts operation on Saturdays and after 5:00pm on Monday – Friday, which is not being complied with by the proposal. • The approval of an extractive industry with multiple dwellings located within the 500m buffer area would set an undesirable precedent for future extractive industry proposals. 	<p>Response:</p> <p>The original proposal was amended in an attempt mitigate the impact relating to the duration of the extraction. While the concerns surrounding the operational hours are noted, the Environmental Noise Regulations allow for operation between 7am and 7pm and the Shire’s draft LPP3 is yet to be formally adopted by Council. Formal decisions are unable to be made under a policy that is yet to be formally adopted, the policy is only given due regard.</p> <p>Nonetheless, the Shire notes the submitters concerns and it is agreed should approval be granted there is a risk that an undesirable precedent would be set.</p>
<p>Amenity:</p> <ul style="list-style-type: none"> • Sensitive land uses (Dwellings) are located within 500m of the proposed extraction cells which is in contravention of the Shire’s Local Planning Policy No.3. The proposed gravel extraction will have an undue impact on the amenity of the surrounding dwellings. • The amenity of the area is currently a quiet rural zone. The proposed extractive industry is not in keeping with the current 	<p>Response:</p> <p>The Shire’s LPP3 allows for a development application to be assessed against the relevant Performance Criteria. In the case of the required buffer distance, LPP3 refers back to the EPA guidance note 3 and State Planning Policy 4.1 (SPP4.1). The EPA guidance note 3 allows buffers for extractive industries to be determined on a case-by-case basis, while SPP4.1 provides principles for assessment of a suitable buffer distance.</p>

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<p>character and rural amenity of the locality. The likelihood of impacts to the amenity of the area are unavoidable.</p> <ul style="list-style-type: none"> • In an attempt to mitigate the risk on the surrounding dwellings, the proposal is required to construct significant bunds to reduce the impact of noise and dust exposure. The requirements for significant bunds demonstrate how unsuitable the gravel extraction is in this locality. • The environmental noise assessment prepared and submitted is hypothetical with no physical measurements undertaken on the site. There is the potential that the actual noise exposure would be higher than the modelled amount, resulting in a greater impact on surrounding dwellings. • Another extractive industry is currently operating on Wallis Road within close proximity of dwellings. The approval of this proposal would further increase the disturbance on surrounding dwellings with two extractive industries operating within 2km of each other. 	<p>The proposal and supporting documentation have been assessed against the state and local planning framework. The area surrounding the proposal currently represents a typical rural character and the Shire’s local planning framework seeks to protect the character and amenity of rural zones within the Shire.</p> <p>The submitters concerns are acknowledged, and the potential amenity impacts are considered inappropriate in the context of the rural locality.</p>
<p>Noise:</p> <ul style="list-style-type: none"> • The proposal will produce high levels of noise that will be heard by surrounding residents and have a negative impact on the amenity of the area. Submitters expressed that they are currently exposed to noise from another extractive industry and approval of this application will further exacerbate noise exposure. • The environmental noise assessment is hypothetical, using modelled data to demonstrate compliance, rather than onsite measurement. Machine operation is likely to exceed the modelled amounts in the environmental noise assessment. • The extractive industry is required to construct a maximum of 7-metre-high noise bunds to mitigate the impact of noise on neighbouring dwellings. Dwellings will be exposed to an unacceptable level of noise during the construction of the bunds, while the height of the bunds themselves is unacceptable. 	<p>Response:</p> <p>The proposal is accompanied by an environmental noise report which demonstrates compliance with the relevant Noise Regulations. While the noise exposure can be mitigated it is agreed that the amenity of the area could be adversely affected by the requirement to install noise bunds.</p> <p>Noise impacts are required to be considered on a case-by-case basis and each proposal is required to demonstrate compliance.</p> <p>The environmental noise assessment has been prepared by a qualified acoustic consultant. Should the noise exposure on site exceed the modelled and permitted levels the Shire can undertake monitoring and subsequent compliance action to ensure compliance is met.</p> <p>The construction of the noise bunds is exempted from the need to be modelled and mapped under Regulation 13 of the Noise Regulations. Noise</p>

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<ul style="list-style-type: none"> The site and surrounding land is undulating with a valley between the two extraction cells and neighbouring dwellings. As a result, the noise bunds will not effectively mitigate noise. 	<p>exposure from the construction of the bunds is to be reasonable and it is argued that in this locality that the noise exposure is not in keeping with the rural character of the area. The construction and implementation of the noise bunds are not supported.</p>
<p>Environment:</p> <ul style="list-style-type: none"> No environmental assessment has been undertaken. The waterway is considered a typical habitat for the critically endangered white-bellied frog and as such an environmental assessment should be carried out. There is the potential for the extraction operation, particularly noise, to have an impact on native fauna. Submitters have stated that surrounding native bushland is home to fauna with many species using these areas for nesting and roosting. The proposal includes stormwater retention ponds within the extraction cells. Submitters have raised concerns surrounding the management of stormwater and the potential for impacts on the waterway running through Lot 202. Concerns are also held around the potential for contaminated stormwater to enter groundwater and the waterway. Submitters have raised concerns surrounding the security of groundwater and potential impacts of groundwater disturbance on surrounding lots. Concerns are held on the potential for neighbouring viticulture lots to be impacted by the alteration of stormwater and groundwater flows. 	<p>Response:</p> <p>The waterway is not listed as an Environmentally Sensitive Area or registered habitat for white-bellied frogs. This is not to say that there are not native fauna living within the waterway. The proposal complies with the required setback from waterways. The proposal is proposing mitigation measures to control sediment and stormwater flows.</p> <p>It is agreed that the impact on the native fauna in this locality is unknown. The consideration of the land use compatibility has included the potential impact on environmental values.</p> <p>The proposal has dug test holes and proposes a pit floor depth with vertical separation above groundwater. There is potential that groundwater may be intercepted, however based on the test holes and separation it is unlikely. The full impacts of an extractive industry on groundwater in flow is unclear.</p> <p>DWER would be responsible for managing groundwater and any environmental impacts associated with the extractive industry.</p>
<p>Visual Impact:</p> <ul style="list-style-type: none"> The proposed extraction cells will be visible from dwellings and will have an adverse visual impact. The potential visual impact will devalue properties in the area by an estimated minimum of 20%. If the development is approved, a full valuation will be provided with action to seek damages. The proposed bunds will impact the visual amenity of the area and dominate the otherwise natural valley. 	<p>Response:</p> <p>The proposed bunds pose a significant visual impact and their construction is inconsistent with the intent of the priority agriculture zone and relevant state planning policies responsible for setting buffer distances.</p> <p>The visual impact is discussed in detail in the officer comment section of the council report.</p>

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<p>Transport:</p> <ul style="list-style-type: none"> • The proposal requires the haulage of gravel along internal routes which are not mitigated by the proposed noise bunds. The internal haulage will further exacerbate the noise that dwellings are exposed to and is not supported. • The operation of the extractive industry will further damage the road network. 	<p>Response:</p> <p>The internal haulage routes are located centrally within the two sites and have been modelled as part of the environmental noise assessment. The proposed truck movements are compliant with the Noise Regulations.</p> <p>The proposed route for haulage trucks leaving the site is to use Boronia Road and onto Rosa Brook Road. Boronia Road services a limited number of dwellings and the road condition will be monitored. If an approval was issued, where appropriate the Shire would liaise with the operator of the extractive industry to maintain the condition of Boronia Road.</p>
<p>Land Use Conflict:</p> <ul style="list-style-type: none"> • The impacts of the proposed extractive industry on the neighbouring agricultural land is unknown. Neighbouring properties are undertaking agricultural pursuits and there is the potential for an extractive industry to have a negative impact on the vitality of agricultural land. • A caravan park is located on Lot 201 and tourists should not be exposed to dust and noise impacts associated with the proposed extractive industry. • The proposal is required to implement mitigation measures and operate in accordance with the proposal. Other extractive industries fail to comply and there is little follow up or compliance undertaken to enforce the approval requirements. 	<p>Response:</p> <p>The appropriateness of the land use has been considered as part of the assessment of the proposal. It is agreed that the proposal for an extractive industry land use is not in keeping with the current rural amenity of the locality, particularly due to the requirement for significant noise bunds.</p> <p>The caravan park is located on Lot 201, which is in the same ownership as Lot 202 where the proposed extraction cells are. The landowner has consented to the use of their land for the extractive industry and is therefore accepting responsibility for the impact on the caravan park.</p> <p>The Shire actively follows up on compliance matters and has done so on numerous other extractive industries within the Shire. Should complaints be received regarding the operation of an extractive industry, the Shire will investigate and undertake appropriate action where necessary.</p>
<p>Government Agency Submissions</p>	
<p>DWER: Prescribed Premises: The proposed operations may be categorised as Prescribed Premises under the <i>Environmental Protection Regulations</i> 1987. The applicant can be advised that they may meet the requirement for prescribed premises and as such, will require a works approval to construct/install the equipment (mobile or otherwise) and a licence or registration to operate.</p>	<p>The comments by DWER are noted and should an approval be issued for the proposal, the recommended conditions of approval from DWER will be added.</p>

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<p>Rehabilitation Plan:</p> <ul style="list-style-type: none">• no information has been provided with regards to the riparian species selection, successful rehabilitation criteria or timeframes• it is unknown if there would be exposed waterbodies, which may be alluded to in the 'retention sumps'• no information has been provided with regards to the final landform (i.e. rehabilitated floor levels in m AHD) <p>The department's water quality protection note (WQPN) no. 15 '<i>Basic raw materials extraction</i>' (July 2019) states:</p> <ul style="list-style-type: none">• "DWER does not support the creation of new water bodies by leaving open pits and voids. If an open water body is proposed for future recreation or conservation purposes, the proponent will need to demonstrate that issues such as water resource management, water quality protection and mosquitoes/midges can be successfully managed in the long-term. See DWER's <i>Interim position statement: Constructed lakes</i> for more information (Department of Water 2007)." <p>For riparian species selection and waterway restoration, the Department of Biodiversity, Conservation and Attractions (DBCA) should be consulted to ensure successful rehabilitation.</p> <p>Water:</p> <p>No information has been provided in the referral with regards to the take of water to support the proposed extraction under the <i>Rights in Water and Irrigation Act 1914</i>.</p> <p>The department advises that the proponent/licensee is required to make application to amend their licence to take water (water license: SWL170033(2)) to include the extractive use, noting this licence is currently for water storage purposes only.</p>	
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<p>Under the licence SWL170033(2), water may only be taken from the licensed dam. As such, the taking of water from any other water drawpoints located on their properties including on or off stream soaks is not authorised for commercial activities.</p> <p>Where the water will be taken from, the volumes required, and the duration of the water use should be identified to inform the development proposal.</p> <p>A groundwater licence is also held (GWL169371) authorising up to 2000kL per annum to be taken for ablution/campground purposes. As with the above surface water licence, any changes required to the take and use of water described under the licence will require amendment.</p> <p>The proponent should note that the groundwater resources in the Cape to Cape South Groundwater Sub Area are fully allocated and any request for new or additional water over and above the current licensed entitlements are unlikely to be supported.</p> <p>Fuel and Chemical Management: The Department advises that any machinery maintenance activities that carry the risk of fuel/chemical spills be carried outside the pit floor and away from watercourses/drainage lines.</p> <p>Staging Plan: The details of the staging plan have been provided in the EIL report (Screenshot 3 & 4), to which the proponent is expected to abide with to the satisfaction of the Shire.</p> <p>Environmental Risks:</p>	
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<p>WQPN 15 provides recommendations on how to limit the impacts of their operations to the environment and water resources, to which the proponent is expected to adhere to where appropriate to the site situation.</p> <p>Stormwater and Sediment Management: The Water Management Plan (Appendix J) contained within the EIL report provides detail on how stormwater and sediment is to be managed, noting that the design of the site plans indicates that the extraction area is to be internally draining – to which the Department supports on the basis of protecting the waterway from turbidity and sedimentation.</p> <p>Waterway Crossing: To minimise the impacts of erosion and turbidity due to the construction and use of the proposed creek crossing, the proponent is advised to refer to the department’s <i>Crossing creeks - Stream crossings on farms</i> as practical and appropriate to their situation.</p>	
<p>DPIRD: The Department of Primary Industries and Regional Development (DPIRD) does not object to the amended plan for the proposed extraction of gravel at the abovementioned lot. DPIRD still have the following comments regarding the application:</p> <ul style="list-style-type: none"> • Ensure that the rehabilitation is executed to a standard that will support the intended re-establishment of pasture at completion of each phase of the extractive activities. • DPIRD recommends that the proponent prepares a Weed Management Plan. 	<p>Response: DPIRD comments are noted. Should an approval be issued conditions of development approval will be added in accordance with the advice.</p>

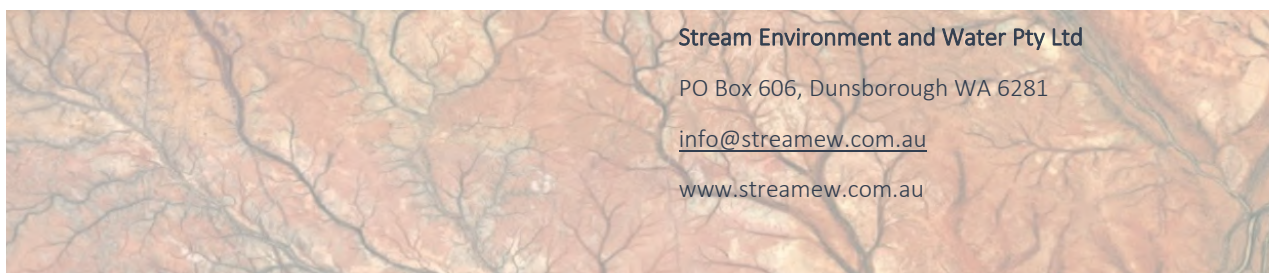


Stream Environment and Water

Flora and Vegetation Survey of Augusta Reserve No. 20761

JUNE, 2022

PREPARED FOR THE SHIRE OF AUGUSTA -MARGARET RIVER



SHIRE OF AUGUSTA MARGARET RIVER
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1 Introduction

1.1 Project Background

Stream Environment and Water Pty Ltd (Stream Environment and Water) were commissioned by the Shire of Augusta Margaret River (AMR Shire) to undertake a flora and vegetation survey, incorporating a reconnaissance vegetation and flora survey and targeted flora survey of remnant vegetation within Reserve No. 20761, Augusta.

The results of the survey will inform the preparation of a clearing permit (and potentially other environmental approvals) in association with proposed Augusta retirement village in the southeast corner of the reserve.

1.2 Site location and details

The survey area is located within the Shire of Augusta Margaret River local government area 200m west of the August town centre (Figure 1). The survey area (area which is physically surveyed), is situated on the corner of Hillview Road and Allnut Terrace, approximately 26.5 ha in area (Figure 2). The proposed site for the Augusta retirement village is located in the southeast corner of the reserve, approximately 2 ha in area (Figure 2).

A desktop study area (the 'study area') has been defined for the desktop assessment. The study area includes the survey area with a 5 kilometre (km) buffer (Figure 1).

1.3 Scope and Objectives of the Study

The objective of the study was to undertake a reconnaissance spring flora and vegetation survey of the survey area in accordance with 'Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessment' (EPA 2016a). The following actions were completed to fulfill the scope:

- Conduct a desktop assessment of the study area and survey area prior to the field survey to review the flora and vegetation values of the survey area. This includes database searches and results of previous studies.
- Complete a reconnaissance spring vegetation and flora field survey to verify/groundtruth the desktop assessment findings (one season only).
- Conduct a targeted survey for Threatened and Priority flora identified in the desktop assessment with a more concentrated search effort within the proposed retirement village site.
- Map and report on vegetation types and condition within the survey area using a combination of recent aerial photographs and field surveys.
- Complete analysis of field results to assess the occurrence of potential TEC/Priority Ecological Communities (PECs).
- Map and report on any Threatened or Priority flora and communities found within the survey area using a combination of recent aerial photographs and field surveys.
- Provide a concise report on the findings of the survey.
- Provision of raw data and spatial files in appropriate format.

1.4 Relevant legislation and policy

The approach and methodology of the flora and vegetation assessment was undertaken in accordance with relevant legislation and Commonwealth and State policy, including:

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- Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a).
- Draft Survey Guidelines for Australia's Threatened Orchids (Commonwealth of Australia 2013).
- Environmental Factor Guideline: Flora and Vegetation (EPA 2016b).
- *Biodiversity Conservation Act 2016* (BC Act).
- Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA).

1.5 Definitions

1.5.1 Communities

Ecological communities are defined as a naturally occurring group of plants, animals and other organisms interacting in a unique habitat. The Department of Biodiversity, Conservation and Attractions (DBCAs) identifies and lists ecological communities as a threatened ecological community (TEC) if the community is presumed to be totally destroyed or at risk of becoming totally destroyed. Threatened communities can be classed as critically endangered (CR), endangered (EN), vulnerable (VU) or presumed totally destroyed (PD) (see Appendix A for details).

Where communities are considered rare but not (currently) threatened or there is insufficient information available for the community to be considered a TEC, communities can be listed as PECs (definitions of priority classes are provided in Appendix A).

The *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act) provides statutory listing and protection for TECs at a federal level. Under the EPBC Act TECs can be listed as critically endangered, endangered, or vulnerable (Appendix A). Communities listed under the EPBC Act as Threatened have statutory protection.

Other significant vegetation

Vegetation may be significant for a range of reasons other than a statutory listing. The EPA (2016a, b) states that significant vegetation may include vegetation that includes the following:

- Restricted distribution.
- Degree of historical impact from threatening processes.
- A role as a refuge.
- Providing an important function required to maintain ecological integrity of a significant ecosystem.
- Local endemism in restricted habitats.
- Novel combinations of taxa.
- A role as a key habitat for Threatened species or large population representing a significant proportion of the local to regional total population of a species.
- Being representative of a vegetation unit in 'pristine' condition in a highly cleared landscape, recently discovered range extensions, or isolated outliers of the main range.

This may apply at a number of levels, so the unit may be significant when considered at the fine-scale (intra-locality), intermediate-scale (locality or inter-locality) or broad-scale (local to region).

1.5.2 Species

All native flora in Western Australia is protected under the EP Act by virtue of the Environmental Protection (Clearing of Native Vegetation) Regulations 2004 (WA). Specific flora species may be afforded special protection under the *Biodiversity Conservation Act 2016* (BC Act) for flora taxa

declared as 'Threatened Flora'. In addition, DBCA also classifies flora under four Priority codes where they are under consideration for future listing as declared rare flora but there is insufficient information, or they are not currently threatened but could become so if circumstances change (Appendix B).

Flora species can also be listed under the EPBC Act as Threatened species and are classed as either extinct, extinct in the wild, critically endangered, endangered, vulnerable or conservation dependant (Appendix B). Any actions likely to have significant impact on species (or communities) listed under the EPBC Act require referral for assessment and approval from the Federal Minister for the Environment.

Other significant flora

Flora species, subspecies, varieties, hybrids and ecotypes may be significant for a range of reasons, other than a statutory listing. The EPA (2016a, b) states that significant flora may include taxa that have/are:

- A keystone role in a particular habitat for Threatened or Priority flora species, or large populations representing a considerable proportion of the local or regional total population of a species.
- Relictual status, being representation of taxonomic or physiognomic groups that no longer occur widely in the broader landscape.
- New species or anomalous features that indicate a potential new species.
- Representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range).
- Unusual species, including restricted subspecies, varieties, or naturally occurring hybrids.
- Locally endemic (a restricted distribution) or associated with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems).

1.5.3 Introduced and Invasive species

Introduced species have been ranked by a number of attributes, including invasiveness, distribution and environmental impacts in the various regions in 'An Environmental Weed Strategy' (CALM, 1999). Those meeting certain criteria are classified as environmental weeds.

Under the National Weed Strategy, there are currently 32 weed species listed as Weeds of National Significance (WoNS) (DoEE, 2019). The assessment of Weeds of National Significance (WoNS) is based on four major criteria:

- Invasiveness.
- Impacts.
- Potential for spread.
- Socio-economic and environmental values.

Declared Pests, including pest plants are also listed under the BAM Act (DPIRD, 2019).

1.5.4 Environmentally Sensitive Areas

Environmentally sensitive areas (ESAs) are declared by the WA Minister for the Environment under section 51B of the EP Act. ESAs relevant to the current study potentially include:

- A defined wetland and the area within 50 metres of the wetland.
- The area covered by vegetation within 50 metres of Threatened flora.
- The area covered by a TEC.

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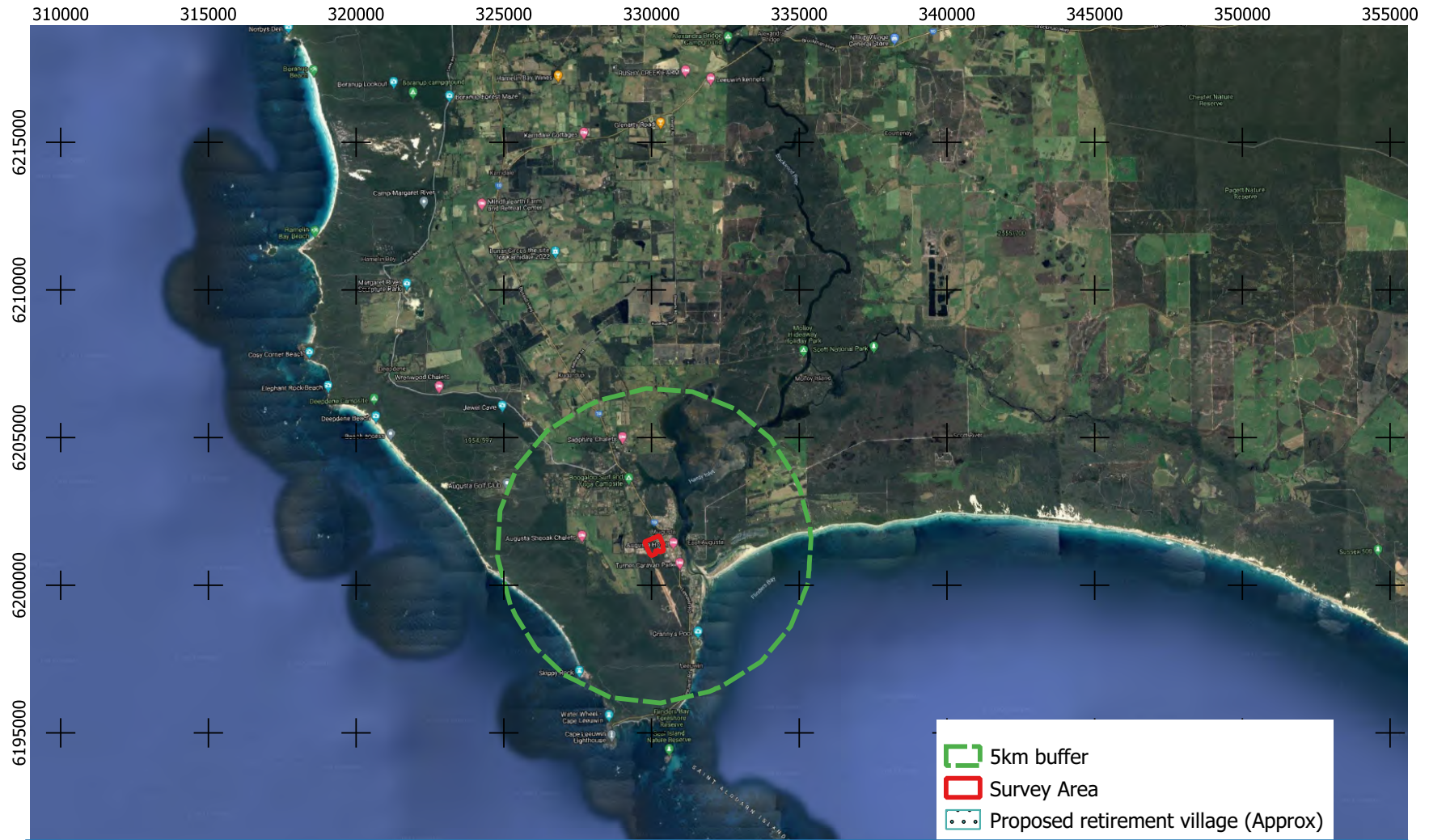


Figure 1 Survey Location

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey
Ref: 212205
Date: 18/02/2022 Author: JW

0 2.5 5 km



Projection: GDA zone 50

Source: Base map © Google Hybrid .Shapefile of Survey Area provided by AMR Shire



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Figure 2 Survey Area

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey
Ref: 212205
Date: 18/02/2022 Author: JW

0 100 200 m



Projection: GDA zone 50

Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

2 Methodology

2.1 Desktop Assessment

A desktop assessment was completed ahead of field surveys using publicly available datasets to identify potential environmentally significant flora species and vegetation types occurring within the survey area and to describe the existing environment. The desktop assessment was conducted over a desktop study area which included Reserve No. 20761 (the survey area) with a 5 km buffer (the study area).

Literature Review

A search of the Index of Biodiversity Surveys for Assessment (IBSA) database and consultation with the AMR Shire was carried out to find relevant published reports (if any). The following reports were nearby the survey area:

- Flora and Vegetation Assessment. Cape Leeuwin Trail Dead Finish to Cape Leeuwin (Litoria Ecoservices (2019).
- Flora and Vegetation Assessment. Augusta Boat Harbour to Dead Finish Foreshore, Cape Leeuwin. (Litoria Ecoservices (2019).
- A flora and vegetation survey for the Busselton to Flinders Bay Rail Trail (Ekological Pty Ltd 2012).
- Targeted Survey for threatened and priority flora within a 10m wide corridor of the Wadandi Track from Hillview Road to Baker Road in Augusta. (Stream Environment and Water 2020)
- Flora and vegetation survey of Augusta Waste Water Treatment Plant. (Stream Environment and Water 2019).

Spatial Data Review

Several regional-scale spatial data sets and accompanying reports were examined, including the following:

- Climate data from Bureau of Meteorology (BoM) Climate Data Online (2021).
- Interim Biogeographic Regionalisation for Australia (IBRA) Regions (Version 7, Subregions)(DAWE 2020).
- Soil mapping from Tille and Lantzke (1990) was used to identify soil types (digitally available in Soil Landscape Mapping – Systems, DPIRD-064).
- Identification of Environmentally Sensitive areas (Clearing Regulations - Environmentally Sensitive Areas (DWER-046) (DWER 2018a).
- Identification of any sensitive wetlands and waterways (Ramsar Sites (DBCA-010) (DBCA 2017a), Hydrography Linear Metadata (DWER -031)(DWER 2018b), Directory of Important Wetlands in Australia - Western Australia (DBCA-045) (DBCA 2018), Geomorphic Wetlands, Augusta to Walpole (DBCA-017) (DBCA 2017b).
- Mapping of vegetation associations (e.g. Beard 1981) and vegetation complexes (Mattiske and Havel 1998). using digital mapping from Pre-European Vegetation (DPIRD-006) (Beard *et al* 2013) and Native Vegetation Extent (DPIRD-005) (DPIRD 2020).
- State-wide Vegetation Statistics (GoWA 2019).

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Database Searches

The following databases were searched to assist in the determination of flora and vegetation of significance:

- DAWE’s Protected Matters Search Tool (PMST) was searched to identify any significant flora or communities listed under the EPBC Act (DAWE 2021). This search was conducted using a buffer of 5 km around the survey area.
- DBCA’s NatureMap database (DBCA 2021a) represents the most comprehensive source of information on the distribution of Western Australia’s flora and fauna, including records from the WA Threatened and Priority Flora and Fauna Databases and the WA Herbarium Specimen Database. This search was conducted using a buffer of 5 km around the survey area.
- DBCA’s Threatened and Priority flora database(DBCA 2021b). These searches were conducted using a buffer of 10 km around a search area of NW Corner: 312000mE, 6248600mN; SE Corner: 356700mE, 6194100mN (GDA 1994, Zone 50) and were supplied by DBCA. Records within a 5 km radius of the survey area were included in the desktop study.
- DBCA’s TEC and PEC database (DBCA 2021c) These searches were conducted using a buffer of 10 km around a search area of NW Corner: 312000mE, 6248600mN; SE Corner: 356700mE, 6194100mN (GDA 1994, Zone 50) and were supplied by DBCA. Records within a 5 km radius of the survey area were included in the desktop study.

Assessment of Likelihood of Occurrence

For the purposes of this report, the term ‘significant’ has been applied to species and communities that have been formally assigned a conservation ranking under the BC Act, EPBC Act or the DBCA lists of Priority species and communities.

For each significant flora species, the criteria detailed in Table 1 were used to assess the likelihood that these species would occur in the survey area. Two assessments were completed:

- A pre-survey assessment was made during the desktop study; and
- A post-survey assessment based on the findings of the field surveys.

The criteria in Table 2 were used to assess the likelihood that the potential PECs and/or TECs would occur in the survey area.

Table 1: Criteria used to assign the pre and post survey likelihood of occurrence of flora of significance

Flora likelihood of occurrence	Criteria
Recorded	Species was recorded in the current survey or has previously (in last 15 years) been recorded within the survey area.
Likely (High)	Species previously recorded within the study area and large areas of suitable habitat occur in the survey area.
Possible (Moderate)	Species previously recorded within the study area and areas of suitable habitat occur/may occur in the survey area.
Unlikely (low)	Species previously recorded within the study area, but suitable habitat does not occur in the survey area.
Highly unlikely (very low)	Species previously recorded within the study area, but suitable habitat does not occur in the survey area and/or the survey area is outside the natural distribution of the species or suitable search effort during the preferred season did not record the species.

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Flora likelihood of occurrence	Criteria
Recorded	Species was recorded in the current survey or has previously (in last 15 years) been recorded within the survey area.
	Or not recorded in study area. Previous record location details may be erroneous.
Unknown	Insufficient information to assess likelihood

Table 2: Criteria used to assign the pre-survey likelihood of occurrence of significant communities

Flora likelihood of occurrence	Criteria
Recorded	Mapped or documented (previous survey) occurrence within survey area
Likely (High)	Community previously recorded within the study area and large areas of suitable soil and landforms mapped within survey area
Possible (Moderate)	Community previously recorded within the study area and some suitable soil and landforms mapped within survey area
Unlikely (low)	Community previously recorded within the study area however suitable soil and landforms do not occur within the survey area

2.2 Field Survey

2.2.1 Personnel, timing and weather conditions

A reconnaissance flora and vegetation survey, including targeted flora survey, was completed by Stream Environment and Water Principals Mike Braimbridge and Jane Wilshaw over two survey periods 6 September and 26 October 2021. The survey was timed to coincide with the flowering times of most flora species, with the first visit in which an initial targeted search was conducted to target particular significant species identified during the desktop assessment.

Personnel

Roles and experience of field personnel are summarised in Table 3.

Table 3: Team member roles and experience.

Team member	Qualification	Roles	Experience	Flora taking (biological assessment) licence
Mike Braimbridge	BSc. Hons	Relevé sampling, vegetation mapping and condition assessment, threatened flora searches.	>20 years	FB62000161
Jane Wilshaw	BSc. Hons	Relevé sampling, vegetation mapping and condition assessment, threatened flora searches.	>15 years	FB62000162

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Climate and Weather Conditions

The flora survey was undertaken in Spring in accordance with the recommended season for botanical surveys in the southwest bioregion (EPA 2016a).

2.2.2 Reconnaissance Survey

Releve Sampling

Two relevés were surveyed during the field survey. At each relevé (Figure 3), the following information was recorded using standardised field sheets:

- Location and coordinates using handheld GPS
- Description of the dominant strata and vegetation community in accordance with the NVIS
- Soil and landforms
- Vegetation condition
- Period since last fire
- Description of disturbances
- Comprehensive species list including weeds.

Relevés were placed in vegetation units where the condition (as defined by Keighery 1994) was good or better. Relevé data was supplemented with opportunistic sampling through traverses and targeted searches (see below).

Vegetation Unit Mapping

Vegetation units were described and mapped through aerial photograph interpretation and confirmed in the field through sampling of relevés and field observations.

Vegetation units were described based on structure, dominant taxa and cover characteristics as defined by relevé data and field observations. Vegetation unit descriptions follow the NVIS and are consistent with NVIS Level V (Association) (Refer to Appendix C).

Once the vegetation units were described, they were compared against the published descriptions of TECs and PECs to determine whether any of the vegetation in the survey area potentially corresponded to listed community types.

Vegetation Condition Mapping

Vegetation condition was assessed and mapped in accordance with the vegetation condition rating scale for the Southwest Botanical Provinces devised by Keighery (1974) and adapted by EPA (2016b). The scale recognises the intactness of vegetation and consists of six rating levels. The vegetation condition rating scale is outlined in Appendix C. Areas devoid of vegetation were mapped as cleared (e.g. roads) and not assigned a condition rating.

Targeted Survey for Significant Flora

Targeted searching for potential Threatened and Priority flora species was completed through generally parallel grid traverses of the survey area (Figure 3). Traverse spacing was closer (greater search effort) within the south eastern corner of the survey area where the proposed retirement village is planned (i.e. focused search effort on the potential area of impact based on discussions with the Shire of Augusta Margaret River).

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Where located, the coordinates of potential Threatened and Priority flora species were recorded (using a hand held GPS to 2m accuracy) along with the number of plants, vegetation unit, landform, aspect, soil, vegetation condition, period since last fire and any disturbances. Where large populations were recorded, the boundary of the population was mapped and the number of individuals estimated. Sub sampling of quadrats was undertaken as a way of estimating where necessary.

Introduced Plants and Invasive Species

Locations of any declared pests or WoNS were also recorded (GPS coordinates) during the targeted flora survey and relevé sampling. Opportunistic records were also made of other introduced flora species.

Specimen Identification

Any flora species that were not able to be identified in the field were collected or photographed. Field collections were made where taxa were uncommon or unusual (for the survey area), or could not be identified without microscopic examination. Field collections were pressed and dried for later identification. Specimens were identified using relevant taxonomic literature, flora keys and comparison with voucher reference collections and collections held by Stream and the WA Herbarium. The majority of identifications were completed by Stream Director/Principal Environmental Scientists Mike Braimbridge and Jane Wilshaw. Where necessary, specialist taxonomists Frank Obbens and Sharnya Thomson assisted in identification and/or confirmation of specimens.

Nomenclature of flora identified during the survey follows that of the Western Australian Herbarium and as listed on FloraBase (WA Herbarium 1998) at the time of report preparation.

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Figure 3 Survey Effort

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey
Ref: 212205
Date: 18/02/2022 Author: JW

0 100 200 m



Projection: GDA zone 50

Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

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2.2.3 Survey Limitations

The survey limitations were considered consistent with EPA Technical Guidance (EPA 2016) and are summarised in Table 4.

Table 4: Assessment of survey limitations

Aspect	Constraint	Comment
Available regional and local information	Low	The region is well surveyed with regional vegetation association and complex mapping available. There were several local vegetation survey reports in close proximity to the survey area.
Competency of personnel	Negligible	The survey was completed by Mike Braimbridge and Jane Wilshaw who have >20 years' and > 15 years' experience (respectively) in conducting flora and vegetation surveys in the Western Australia, including the south west.
Proportion of flora identified	Low	The field survey was completed during spring flowering period in a time to target specific potentially occurring Threatened and Priority flora. Additional targeted surveys were carried out in early spring to target early-spring flowering and specific orchid species. Where required specimens were collected or photographed and identified using relevant taxonomic literature.
Survey effort and extent	Low	Targeted survey covered the survey area with increased search effort focussed within the Augusta retirement village potential footprint.
Accessibility	Negligible	Site is on public land and is accessible.
Survey timing and season	Negligible	The survey was completed in over two periods in spring following a greater than average rainfall falling in the months preceding the survey (refer to Section 3.1).
Disturbance	Negligible	No recent disturbances.

3 Desktop Assessment Results

3.1 Climate

The weather conditions leading up to and during flora and vegetation surveys can influence the number and type of species recorded from an area. High rainfall can increase the presence of annual flora species and contribute to the higher likelihood of plants bearing reproductive material. These factors result in a more complete list of species from the survey area and greater confidence in species identification.

The southwest of Western Australia has a Mediterranean climate with mild wet winters and hot dry summers. Cape Leeuwin (BOM 2021, Climate Data Station 9581, 7km south of the survey area) has an average annual rainfall of 954.6mm (1897 to current), with most of the rain falling between May and August (Figure 4). In the months leading up to the survey rainfall was similar to average from May to July, and less than average in August (Figure 4). Climate statistics show a temperature range from an average maximum of 23.4°C in the hottest month of February to an average minimum of 11.3°C in July and August (BOM 2021, Climate Data Station 9518).

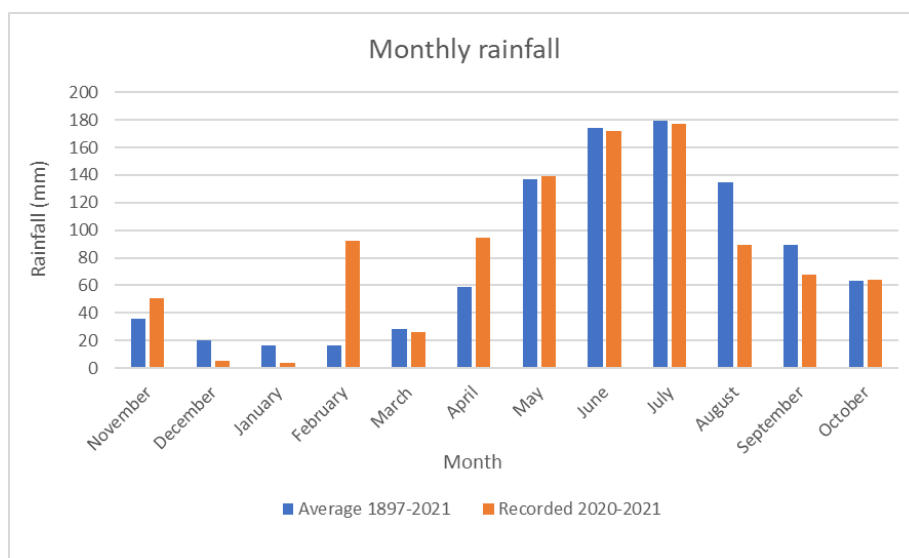


Figure 4. Mean monthly rainfall from 1897-2021 and in the months leading up to the survey (BOM Station 9518)

3.2 Biogeographic Region

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (DoEE, 2016).

The survey area is located within the Warren (WAR01) sub-region of the Warren biogeographic region. The Warren bioregion includes dissected undulating country of the Leeuwin Complex, Southern Perth Basin (Blackwood Plateau), South-West intrusions of the Yilgarn Craton and western parts of the Albany Orogen. The bioregion contains loamy soils supporting Karri forest, laterites supporting Jarrah-Marri forest, leached sandy soils in depressions and plains supporting low Jarrah woodlands and paperbark / sedge swamps. It also includes Holocene marine dunes with *Agonis flexuosa* and Banksia woodlands and heaths (Hearn, et al., 2002).

3.3 Soils and landforms

Soil mapping by the Department of Agriculture and Food (Tille and Lantzke 1990) identifies thirty-eight soil units across the study area, one of which occurs within the survey area, *Cowaramup undifferentiated upland Phase*, described in Table 5.

Table 5 Soils of the Survey Area

Soil Phase	Description
Cowaramup, undifferentiated upland Phase	<i>Flats and gentles slopes (0-5% gradient) with gravelly duplex (Forest Grove) and pale grey mottled (Mungite) soils.</i>

3.4 Land Use

The vegetation within the Reserve No. 20761 is comprised of predominantly remnant native vegetation. The north eastern section of the survey area includes cleared areas used for recreation (sporting facilities). Adjoining land is mixed with native vegetation to the north, west and south and urban areas to the east.

3.5 Surface Hydrology

No watercourses or wetlands are within or in close proximity to the survey area.

There is a minor perennial waterway approximately 400m north of the survey area, connected to the Hardy Inlet, the Inlet situated 400m east of the survey area (Figure 5). The Hardy Inlet is an estuarine system receiving freshwater from the Blackwood and Scott Rivers and connected to the Southern Ocean at Flinders Bay.

No wetlands of international importance (Ramsar) or nationally important wetlands occur within the study area. Wetlands in the study area are mapped as part of the Geomorphic Wetlands Augusta to Walpole dataset. There are 50 wetlands mapped as part of this dataset within the study area, however none of these intersect the survey area.

3.6 Conservation Estates and Reserves

The Leeuwin Naturaliste National Park and the Ngari Capes Marine Park occur within the study area. These Parks are Class 'A' Conservation reserves under the CALM Act 1984. Both of these reserves area greater than 1km from the survey area (Figure 5).

3.7 Environmentally Sensitive Areas

An ESA associated with the Leeuwin Naturaliste National Park and the Hardy Inlet (and associated waterways) occurs within the study area. No ESAs intersect or are directly adjacent to the survey area (Figure 5).

3.8 Vegetation

3.8.1 Vegetation Associations

The entire study area and survey area occurs within the Boranup vegetation system (Beard 1981). Twenty two Boranup vegetation system associations are mapped within the study area with the survey area entirely within association Boranup 1 and Boranup 3. A description and the remaining extent of these associations is detailed in Table 6. Both associations have greater than 30% of pre-European extent remaining (Government of Western Australia, 2019a).

Table 6: Vegetation Associations mapped within the Survey Area

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Vegetation System	Association	Description	Pre-European extent	Current Extent	% Remaining
Boranup	1	Mainly karri <i>Eucalyptus diversicolor</i> or Tuart <i>E. gomphocephala</i> .	12,132.73	6,252.72	51.54
Boranup	3	Mainly jarrah and marri <i>Eucalyptus marginata</i> , <i>Corymbia calophylla</i>	38,751.42	14,905.63	38.46

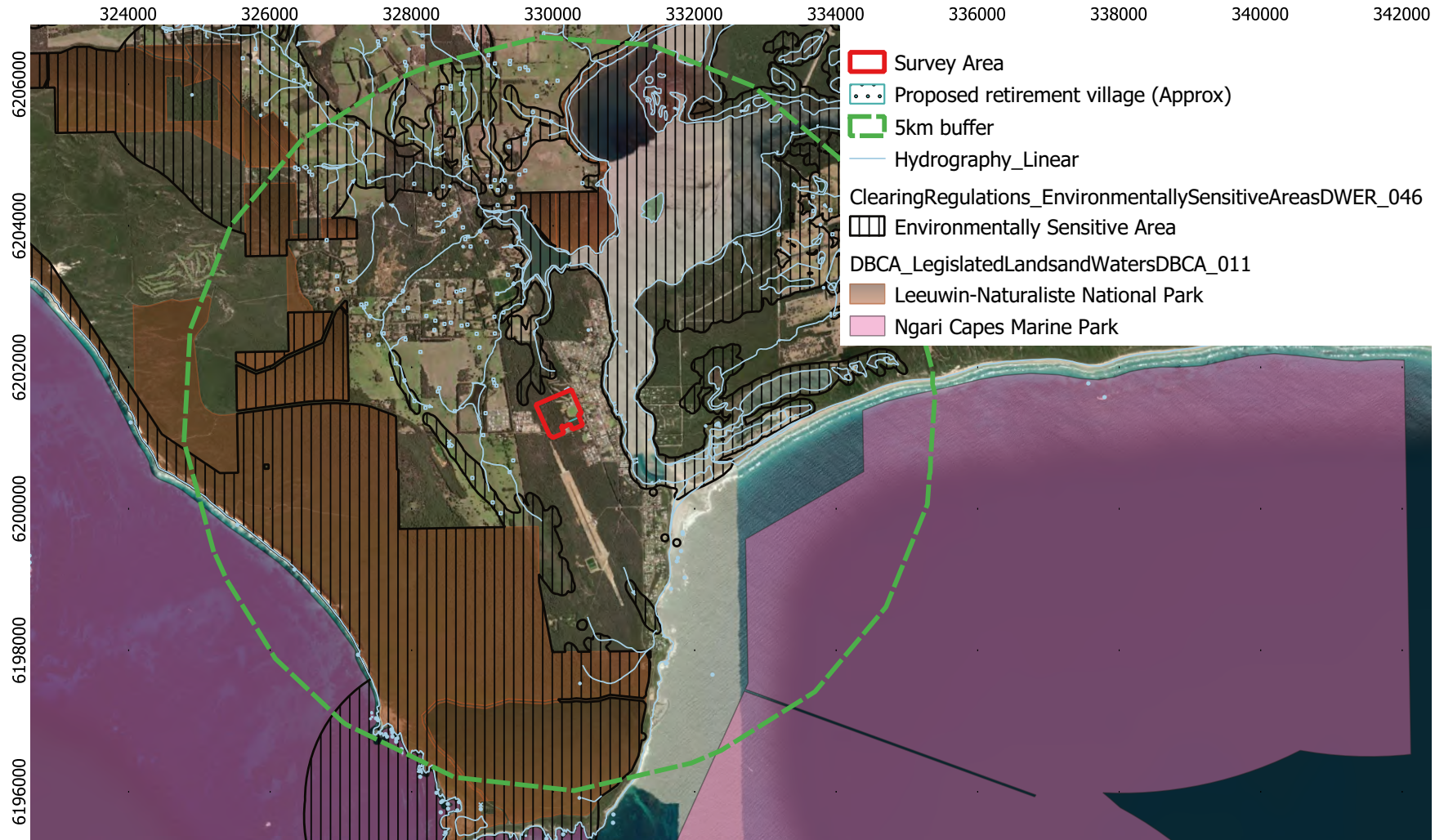
3.8.2 Vegetation Complexes

Vegetation complexes in the area were mapped by Mattiske and Havel (1998). Twenty-five vegetation complexes are mapped within the study area with the survey area entirely within complex Cowaramup C1. A description and the remaining extent of this complex is detailed in Table 7. The State and Federal governments' policies to manage environmental impacts and clearing, apply a target to retain >30% of pre-clearing extent for ecological communities (DER 2014). The Cowaramup C1 Complex has 34.46% pre-European extent remaining.

Table 7: Vegetation Complexes mapped within Reserve No. 20761

Vegetation complex	Description	% pre-European extent remaining	Current extent	% Remaining
Cowaramup, C1	Open to tall open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia calophylla</i> - <i>Banksia grandis</i> on lateritic uplands in the hyperhumid zone.	18,981.79	6,540.87	34.46

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Figure 5 Conservation Areas and Hydrology

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey

Ref: 212205
Date: 18/02/2022 Author: JW

0 1 2 km



Projection: GDA zone 50



Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

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3.8.3 Significant Communities

The desktop survey identified four significant communities within the 5km desktop study area. These communities are described in Table 8 and buffered locations shown in Figure 6.

All four communities are restricted to specific habitats and are considered unlikely to occur within the survey area (refer to methods for likelihood of occurrence criteria).

Table 8: Threatened and Priority Ecological Communities within 5km of the survey area and their likelihood of occurrence

Community	Typical soil and landform	EPBC	State	Likelihood of occurrence within the survey area
Rimstone Pools and Cave Structures Formed by Microbial Activity on Marine Shorelines (Augusta microbialites)	Confined to rocky shoreline and adjacent cliffs and caves, within Ngari Capes Marine Park, and Leeuwin Naturaliste and Cape Naturalist National Parks, from Cape Naturaliste to Augusta and possibly Black Point. The growth of the community is dependent upon a supply of freshwater from springs and seeps (DBCA 2020).	-	EN	Unlikely
Tall closed sedgeland on shallow soils derived from granite gneiss on the Leeuwin Naturaliste Ridge ('Sedgelands of the Cape Leeuwin Spring')	Tall closed sedgeland of <i>Juncus kraussii</i> , <i>Baumea juncea</i> , and <i>Schoenoplectus validus</i> ; tall closed sedgeland of <i>Typha orientalis</i> , over <i>S. validus</i> , <i>Lepidosperma gladiatum</i> and <i>Muehlenbeckia adpressa</i> ; low closed sedgeland of <i>Ficinia nodosa</i> and <i>Baumea juncea</i> on shallow soils derived from granite gneiss on the Leeuwin Naturaliste Ridge (DBCA 2021).	-	P1	Unlikely
Subtropical and Temperate Coastal Saltmarsh	It occurs on the coastal margin, along estuaries and coastal embayments and on low wave energy coast in places with at least some tidal connection, including rarely-inundated supratidal areas, intermittently opened or closed lagoons, and groundwater tidal influences. The community occurs on sandy or muddy substrate and may include coastal clay pans and similar habitats (DBCA 2021).	VU	P3	Unlikely
Aquatic Root Mat Community Number 1 of Caves of the Leeuwin Naturaliste Ridge (Easter and Jewel Caves)	The Aquatic Root Mat Community in Caves of the Swan Coastal Plain ecological community occurs in caves of the Swan Coastal Plain in southwest Western Australia. The cave streams and pools that contain root mat communities (and other stygofauna) flow or lie at the base of a layer of Tamala limestone and are within 7 km of the coastline (DEC 2008)	EN	CE	Unlikely

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3.9 Flora

3.9.1 Flora Diversity

The DBCA NatureMap database identified 549 flora taxa, representing 104 families previously recorded within the study area (DBCA 2021a) (Appendix E). This total comprised 482 native flora taxa and 67 naturalised (introduced) flora taxa. Dominant families included Fabaceae (58 taxa), Orchidaceae (44 taxa), Myrtaceae (32 taxa) and Asteraceae (30 taxa)

3.9.2 Significant Species

The results of the DBCA database searches identified six Threatened flora species and fifteen Priority flora species previously recorded within the study area. The EPBC PMST search identified thirteen threatened flora species potentially occurring. Based on a review of the soils, landforms and previous vegetation mapping, the likelihood of occurrence (LOO) assessment found six species with a high likelihood and seven with a moderate likelihood (Table 9) of occurring in habitats found within the survey area. DBCA records are mapped in Figure 7 and Appendix G provides the full significant species list and LOO assessment.

Table 9: Significant flora within 5km of the survey area with a moderate – high likelihood of occurrence

Species Name	Status (WA)	Status (EPBC)	Description and Habitat	Pre-survey LOO
<i>Banksia meisneri</i> subsp. <i>ascendens</i> ^{2,3}	P4		Shrub, 0.5-2 m high, leaves ascending, 8-15 mm long. Fl. yellow-orange-brown, Apr to Sep. White or grey sand. Swampy flats.	Moderate
<i>Caladenia abbreviata</i> ^{2,3}	P3	-	Tuberous, perennial, herb, 0.2-0.35 m high. Fl. yellow & brown, Nov to Dec. Sand. Sand dunes	Moderate
<i>Caladenia excelsa</i> ^{2,3,1}	T	-	Tuberous, perennial, herb, 0.45-0.9 m high. Fl. green & white & red, Sep to Oct. White, grey or brown sand, sandy loam.	High
<i>Caladenia lodgeana</i> ^{2,3,1}	T	CE	Tuberous, perennial, herb. Fl. white, Oct. Black loam. Seasonally wet areas on edge of granite outcrops.	High
<i>Caladenia pholcoidea</i> subsp. <i>augustensis</i> ²	P1		Tuberous, perennial, herb, 0.15-0.45 m high. Fl. cream-white, Oct to Nov. Sandy clay. Winter-wet flat in summer burnt areas.	Moderate
<i>Dampiera heteroptera</i> ²	P3		Erect to semi-prostrate perennial, herb or shrub, 0.3-0.6 m high. Fl. blue, Sep to Oct. Sandy soils. Swampy areas.	High
<i>Drakaea micrantha</i> ²	T	V	Small-flowered hammer orchid with prominently veined leaf. White grey sand in woodlands and forests.	High
<i>Franklandia triaristata</i> ^{2,3}	P4		Erect, lignotuberous shrub, 0.2-1 m high. Fl. white-cream-yellow/brown-	Moderate

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Species Name	Status (WA)	Status (EPBC)	Description and Habitat	Pre-survey LOO
			purple, Aug to Oct. White or grey sand.	
<i>Galium leptogonium</i> ²	P3		Decumbent annual herb to 0.3 m. Grey sand.	High
<i>Hemiandra</i> sp. Windy Harbour ^{2,3}	P3		Branched upright shrub to 60cm. Flowers mauve, reddish sepals. Yellow-brown sand over granite.	Moderate
<i>Kennedia lateritia</i> ^{2,3}	T	EN	Climbing shrub, round glossy leaflets in groups of three. Flowers yellow orange. Dark brown loam soils to grey sand over limestone.	Moderate
<i>Schoenus</i> sp. Grassy ^{2,3}	P2		Rhizomatous, perennial, grass-like or herb (sedge), to 0.7 m high. Fl. yellow. Black silt. Swamps.	Moderate
<i>Stylidium ireneae</i> ^{2,3}	P4		Lax perennial, herb, (0.06-)0.1-0.28 m high, Leaves oblanceolate, 0.4-2 cm long, 1-3 (-5) mm wide, apex subacute to acuminate, margin entire, glandular. Scape glandular. Inflorescence racemose. Fl. pink, Oct to Dec. Sandy loam. Valleys near creek lines, woodland, often with Agonis	High

Source information - desktop searches

¹ PMST – DEE Protected Matters Search Tool (PMST) to identify flora listed under the EPBC Act potentially occurring within the study area

² TPFL and WAHERB – records of threatened flora from TPFL and WAHERB database searches within the study area

³ NM – DBCA *NatureMap* (accessed May 2021)

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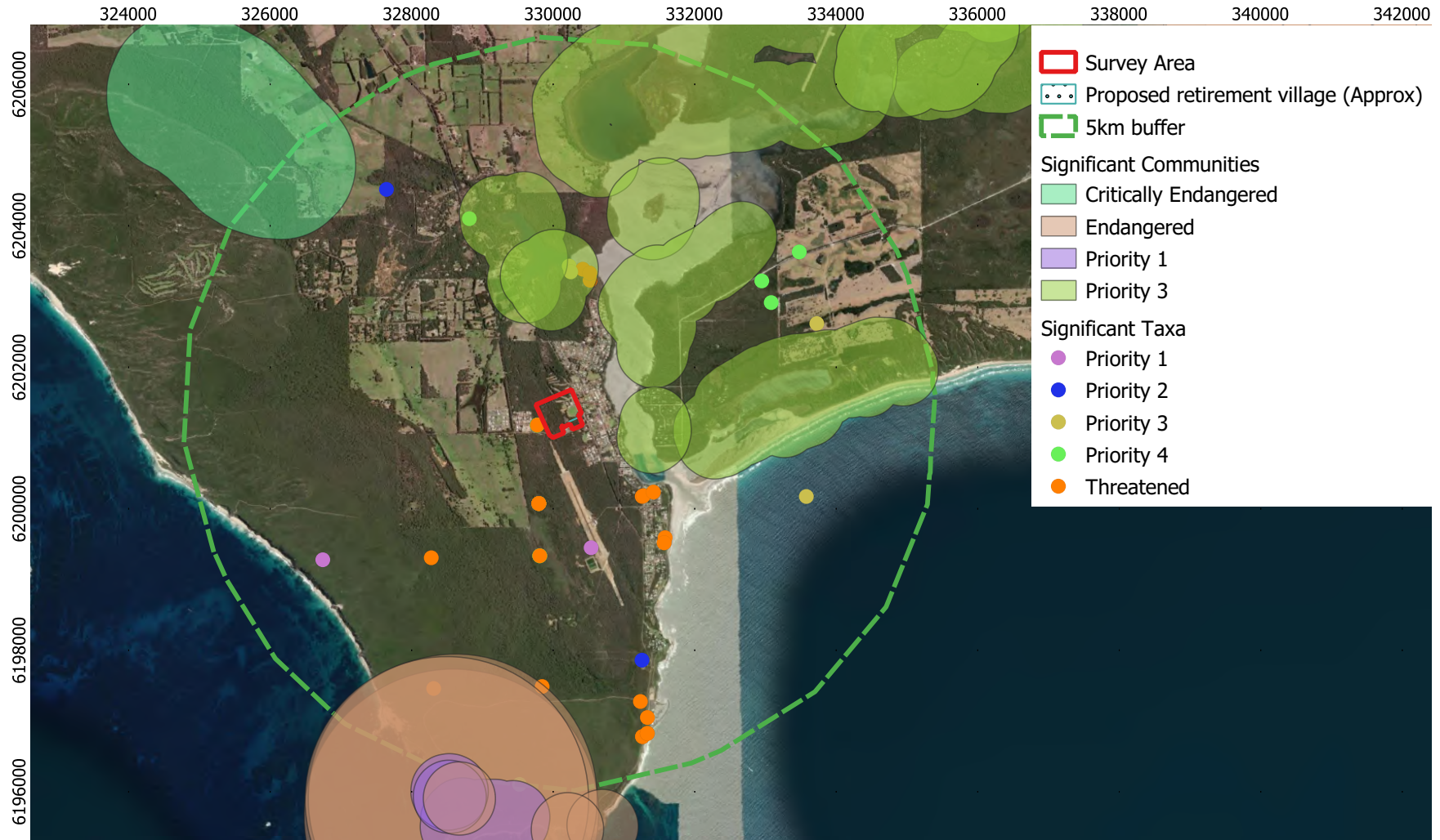


Figure 6 Significant Species and Communities (DBCAs Data)

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey
Ref: 212205
Date: 18/02/2022 Author: JW

0 1 2 km



Projection: GDA zone 50



Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

4 Field Survey Results

4.1 Flora

4.1.1 Flora Diversity

The field survey recorded 97 taxa of vascular plants from 40 families (Appendix F). Eight of the 97 taxa are introduced. The most common families by number of taxa were Fabaceae (12 taxa), Poaceae (5 taxa), Myrtaceae (5 taxa), Proteaceae (5 taxa) and Hemerocallidaceae (5 taxa). The representation of these families is consistent with the flora of the area (and similar to the results of the Nature Map search) and the location of the survey area in the landscape.

4.1.2 Threatened and Priority Flora

One priority species, *Stylidium ireneae* (P4), was recorded during the targeted field survey (Plate 1 below). This priority species was recorded scattered throughout the southern and western portion of the survey area in community CcEm and CcAf (refer to Table 10 for vegetation descriptions and Figure 7 for estimated population boundary).

The distribution of *S. ireneae* was patchy. Individual plant counts were recorded in eighteen 1m x 1m quadrats. Eight quadrats were located within the proposed retirement village and eight outside. Counts within a quadrat were variable ranging from 0 to 48 reflecting the patchy nature of this species distribution. In total 344 *S.ireneae* individuals were recorded, however the population estimate is several thousand based on quadrat counts and observations whilst conducting targeted surveys. *S. ireneae* was observed to be more common within the proposed retirement village site, preferring the more open woodland habitat. This observation is reflected in the quadrat counts (207 within retirement site vs 137 outside)

This species has recently been identified at three sites nearby:

- A population of 100 individuals, 2km south west of the Augusta town centre and approximately 2 km south of the current survey area (Stream Environment and Water 2019)
- A population of 300+ individuals mapped along the Wadandi Track (Hillview Road to Baker Road in Augusta) to the immediate west of the current survey area (Stream Environment and Water 2020)
- Mapped 2.7km north of the survey area by DBCA/Herbarium Records where it was noted as a 'large population colonizing road side on man-made road verges, embankments and drainage road runoff lines' (DBCA 2021c).

The nearby populations of this species indicate that it may be locally common.



Plate 1. *Stylidium ireneae*

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Following the field survey, the post-survey LOO assessment was completed using information on habitat types observed during the field survey. Of the 12 species (aside from *Styldium ireneae* which was recorded during the survey) identified pre-survey as having a high or moderate likelihood of occurrence, ten species were considered to have a low or very low likelihood (unlikely – high unlikely) of occurrence (Appendix G). Two orchid species *Caladenia excelsa* and *Caladenia lodgeana* were considered to have a moderate (possible) post likelihood of occurrence. Although targeted searches were undertaken in the appropriate flowering period for these two species, it is possible that bulbs may lay dormant (orchids not necessarily flowering every year).

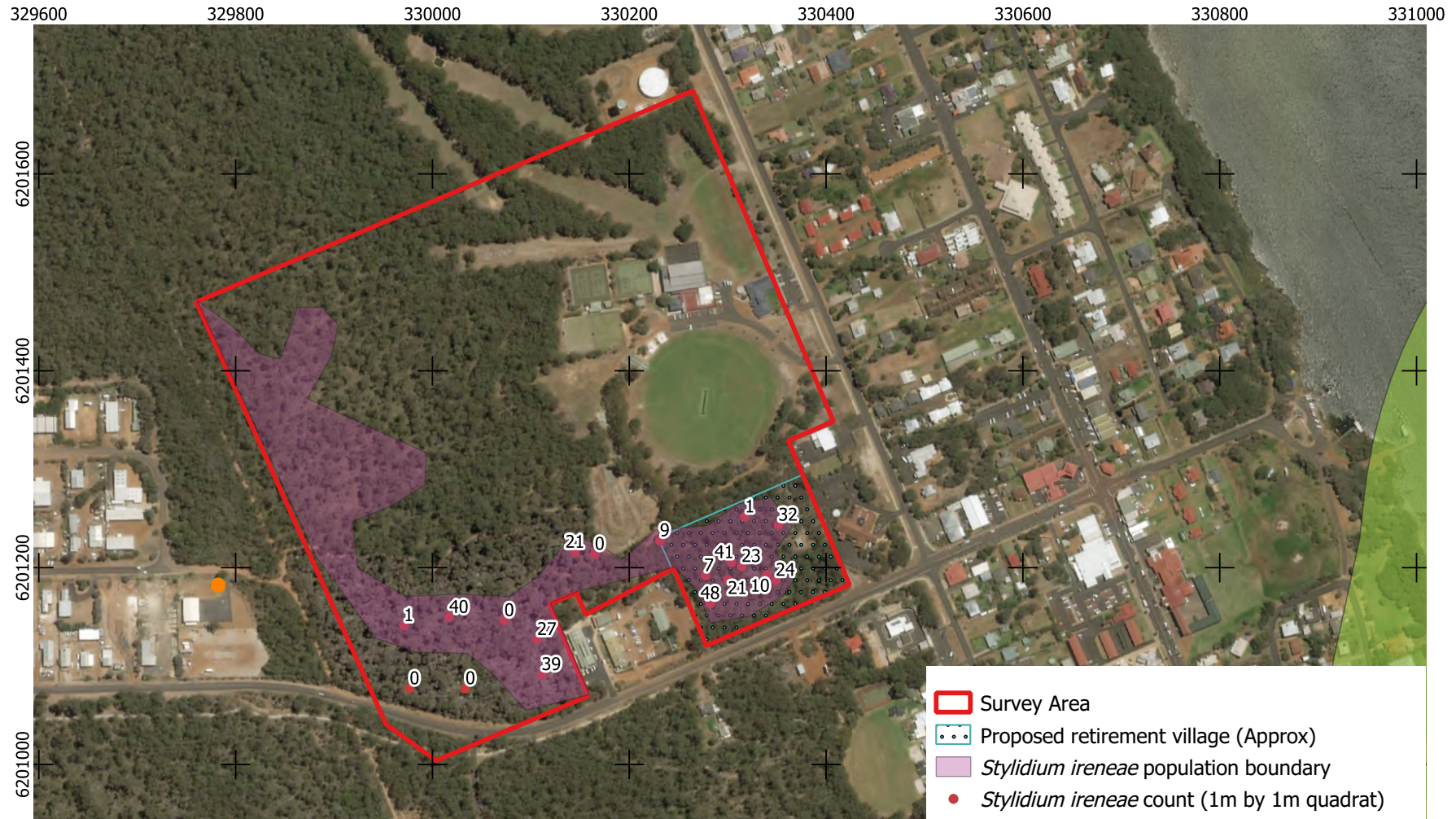
Other significant species

Flora species may also be considered of significance but not formally listed under legislation or policy if they are:

- Locally endemic or occur associated with a restricted habitat type
- A potentially new species
- Representative of the range of a species (e.g. range extensions, outliers or at the limit of a species range)
- Unusual species including restricted subspecies, varieties or hybrids
- Relictual i.e. representative of a taxonomic group that no longer occur widely in the landscape (EPA 2016b).

No species considered to be of other significance were recorded within the survey area.

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Figure 7 Mapped locations of *Styliidium ireneae* (P4)

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Ref: 212205
Date: 18/02/2022 Author: JW

0 100 200 m



Projection: GDA zone 50

Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

4.1.3 Weeds

No Declared pest plants under the *Biosecurity and Agriculture Management Act 2007* were recorded.

A large clump of the invasive *Watsonia meriana* var. *bulbillifera* was recorded on the western boundary of the proposed retirement village site, an area subject to disturbance from adjacent clearing and land use. *Watsonia* and garden ornamentals such as *Verbena* sp. occurred predominantly at the edges of intact native vegetation adjacent to already cleared and developed areas.



Plate 2. Patch of *Watsonia meriana* var. *bulbillifera* on the edge of the reserve

4.2 Wetland and Waterways

A minor drain ran through the bottom southeast corner of the survey area through the proposed retirement village site. The drain appeared to have been constructed and had minimal flow during the survey.

4.3 Vegetation

4.3.1 Vegetation Units

The survey area contains a total of approximately 18.7 ha of native vegetation. Two native vegetation units were identified within the survey area, CcAf and CcEm, described in Table 10 and presented in Figure 8. Native vegetation unit descriptions (Table 10) were based on the results of a relevé surveyed in each, supplemented by opportunistic recording of additional species during

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targeted searches. Relevé details and representative photos from each unit are provided in Appendix H.

Vegetation units CcEm and CcAf are consistent with the broad vegetation types expected based on the Cowaramup C1 vegetation complex (Open to tall open forest of *Eucalyptus marginata* subsp. *marginata*-*Corymbia calophylla*-*Banksia grandis* on lateritic uplands in the hyperhumid zone) and geomorphological unit (Cowaramup, undifferentiated upland Phase) occurring within the survey area. However the vegetation units within the survey area also shows affinities the Gracetown G2 vegetation complex (mixture of low woodland of *Agonis flexuosa*, open forest of *Corymbia calophylla*-*Eucalyptus marginata* subsp. *marginata* and tall open forest of *Eucalyptus diversicolor* with some *Corymbia calophylla* and *Eucalyptus cornuta* on eastward facing slopes in the hyperhumid zone), this unit is mapped approximately 1.4km to the west of the survey area. Both of these vegetation complexes have >30% pre-european extent remaining (Cowaramup C1: 34.46% and Gracetown G3 85.84%).

Table 10: Vegetation units described for the survey area.

Unit Code	Description	Condition	Site Reference	Approx Area (ha)
CcAf	Woodland of <i>Corymbia calophylla</i> over (low) open woodland of <i>Agonis flexuosa</i> over shrubland of <i>Xanthorrhoea preissii</i> and <i>Acacia pulchella</i> over sedgeland of <i>Lepidosperma pubisquamum</i> and <i>Cyathochaeta avenacea</i>	Very Good	R01	3.2
CcEm	Open forest of <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> over shrubland of <i>Bossiaea disticha</i> and <i>Acacia pulchella</i> over shrubland of <i>Hibbertia hypericoides</i>	Very Good - Excellent	R02	15.5
CL	Cleared	NA	NA	7.2
PL	Planted vegetation	NA	NA	0.7

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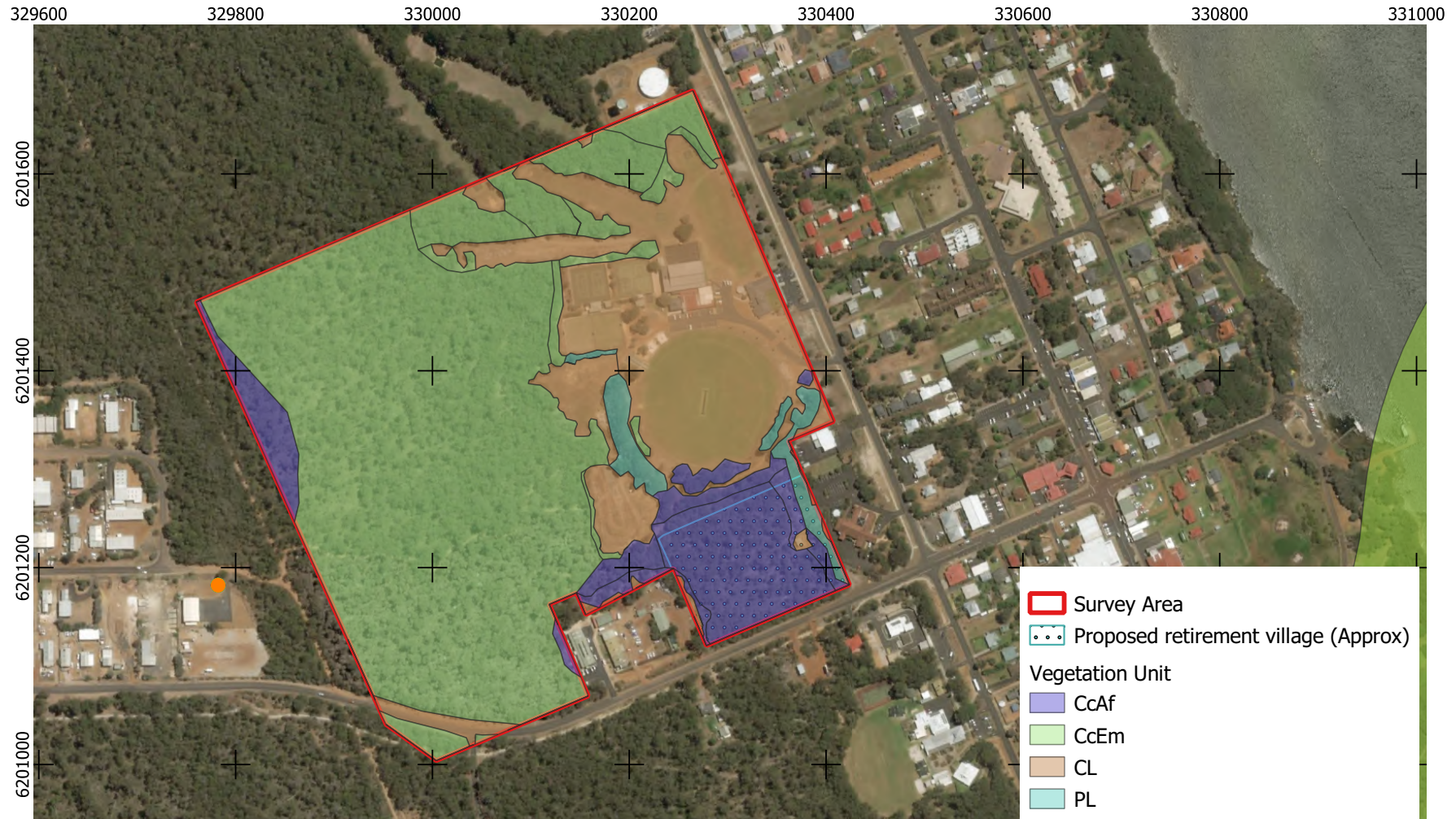


Figure 8 Vegetation Units

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey

Ref: 212205
 Date: 18/02/2022 Author: JW

0 100 200 m



Projection: GDA zone 50

Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire



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4.3.2 Vegetation Condition

The condition of vegetation was mapped during the field survey and included areas classed as Completely Degraded to Very Good-Excellent (Figure 9, Table 11).

By area, the majority of the survey area (approximately 13.6 ha of a total of 26.5 ha) was mapped as in Very Good - Excellent vegetation condition. The majority of the proposed retirement village site was mapped in Very Good condition. Areas of Good or less condition were located in areas that were adjacent to cleared and developed areas (associated with the Civic Park, Skate/BMX Park Community Resource Centre and golf course).

Table 11: Vegetation condition within the survey area

Condition	Area (ha)
Very Good - Excellent	13.6
Very Good	2.1
Very Good - Good	1.2
Good	1.0
Degraded	0.6
Completely Degraded	0.2
Cleared and Planted	7.8
Total	26.5

4.3.3 Significance of Vegetation Units

Based on the results of the desktop survey, no TEC's/PEC's were expected to occur within the survey area and none were identified as a result of the field survey.

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Figure 9 Vegetation Condition

Augusta Reserve No. 20761. Reconnaissance and Targeted Flora and Vegetation Survey

Ref: 212205
Date: 18/02/2022 Author: JW

0 100 200 m



Projection: GDA zone 50

Source: Base map © ESRI and its data suppliers. Landgate (2021). Shapefile of Survey Area provided by AMR SHire

5 Discussion and Recommendations

The flora and vegetation survey of Reserve No. 20761, Augusta found that most of the survey area consisted of intact native vegetation in Very Good to Excellent condition. The site consisted of two native vegetation units, Open forest of *Eucalyptus marginata* and *Corymbia calophylla* over shrubland of *Bossiaea disticha* and *Acacia pulchella* over shrubland of *Hibbertia hypericoides* (CcEm) and Woodland of *Corymbia calophylla* over (low) open woodland of *Agonis flexuosa* over shrubland of *Xanthorrhoea preissii* and *Acacia pulchella* over sedgeland of *Lepidosperma pubisquameum* and *Cyathochaeta avenacea* (CcAf). The remainder of the survey area is cleared or planted.

Both CcEm and CcAf described and mapped within the survey area are consistent with the vegetation complex (Cowaramup C1 vegetation complex) and soils (Cowaramup, undifferentiated upland Phase) present within the survey area. The Cowaramup C1 complex has remaining native vegetation extent of 34%, slightly above the 30% pre-clearing extent target. This complex is moderately well represented in the region. The vegetation units within the survey area also show affinities with the Gracetown G2 complex (mixture of low woodland of *Agonis flexuosa*, open forest of *Corymbia calophylla-Eucalyptus marginata subsp. marginata* and tall open forest of *Eucalyptus diversicolor* with some *Corymbia calophylla* and *Eucalyptus cornuta* on eastward facing slopes in the hyperhumid zone). Gracetown G3 vegetation complex is well represented in the region with 85.84% of pre-European native vegetation extent remaining.

The flora species recorded and families represented were generally consistent with those expected for the area, with Fabaceae the dominant family. One priority species, *Styliidium ireneae* (P4), was recorded during the targeted field survey. This species was scattered throughout both vegetation types CcAf and CcEm in the south and western Survey Area. Approximately 344 individuals were recorded, with the total population estimated to be several thousand. The denser areas of the priority species were recorded in the proposed retirement village site in vegetation type CcAf. Recent nearby records indicate that this species is locally common, having been recorded in a previous survey immediately to the west of the current survey (Stream Environment and Water 2020) and one approximately 2 km to the south of the survey area (Stream Environment and Water 2019), with an additional previous record approximately 4-5 km north of the current survey (DBCA 2021c).

No additional conservation significant flora species were recorded. The timing of the initial survey was considered appropriate to coincide with the flowering period of the majority of threatened flora species potentially occurring within the survey area.

All other significant species (identified pre-survey as having a moderate to high likelihood of occurrence) were considered to have a low/very low post- likelihood of occurrence with the exception of *Caladenia excelsa* and *Caladenia lodgeana*. These orchids were considered to have a moderate post likelihood of occurrence as although targeted searches were undertaken in the appropriate flowering period it is possible that bulbs may lay dormant (orchids not necessarily flowering every year) in areas of suitable habitat.

Overall the survey area had very few weeds and was in Very Good to Excellent condition. However, patches of the invasive weed *Watsonia meriana* var. *bulbillifera* and garden ornamentals occurred in degraded areas on the perimeter of the reserve adjacent to developed and cleared areas.

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In conclusion:

- A population of the priority species *Stylidium ireneae* (P4) occurs within survey area. The population occurs within and extends outside of the proposed development footprint (retirement village site). Three other populations have been mapped within 5km of the survey area (one population directly adjacent) indicating that the species is likely to be locally common. The conservation status of this species should be checked prior to any clearing
- Vegetation within the survey area was consistent with vegetation complexes mapped for the area (Cowaramup C1) and nearby (Gracetown G3), both of which have >30% of their pre-clearing vegetation extent remaining. Vegetation within the proposed development footprint, and outside of it was predominantly mapped in very good to excellent condition.
- Given the very good to excellent condition of native vegetation present within the survey area and the occurrence priority flora species *Stylidium ireneae*, disturbance to remnant vegetation identified during the survey should be minimised where possible.
- Where possible a follow up targeted survey in areas of proposed impacts where suitable habitat occurs for *Caladenia excelsa* and *Caladenia lodgeana* is recommended to reduce the risk of impacts to these species.
- No weeds of national environmental significance were found during the survey. Several environmental weeds including *Watsonia meriana* subsp. *bulbillifera*, were recorded and should be managed appropriately during any proposed clearing and earthworks to avoid further spread and introduction of weeds.

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Appendix A: Categories and definitions for Threatened and Priority ecological communities

State Threatened and Priority Ecological Community Categories

Category	Description
Threatened	
Presumed totally Destroyed (PD)	An ecological community that has been adequately searched for but for which no representative occurrences have been located.
Critically Endangered (CR)	An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future.
Endangered (EN)	An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future.
Vulnerable (VU)	An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium (within approximately 50 years) to long-term future.
Priority	
Priority 1 (P1) – Poorly known	Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤ 5 occurrences or a total area of ≤ 100 ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist.
Priority 2 (P2) – Poorly known	Communities that are known from few occurrences with a restricted distribution (generally ≤ 10 occurrences or a total area of ≤ 200 ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation.
Priority 3 (P3) – Poorly known	Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or; made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range
Priority 4 (P4) – Adequately known	Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.
Priority 5 (P5) – Conservation dependent	Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

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EPBC Act conservation categories for threatened ecological communities

Category	Description
Critically Endangered (CR)	An ecological community that is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years)
Endangered (EN)	An ecological community that is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).
Vulnerable (VU)	an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium-term future (indicative timeframe being the next 50 years).

Appendix B: Categories and definitions for Threatened and Priority flora species

CONSERVATION CODES FOR WESTERN AUSTRALIAN FLORA

<p>T: Threatened Flora - Specially protected under the BC Act, listed under Schedules 1, 2 and 3 of the Wildlife Conservation (Rare Flora) Notice 2018 (which may also be referred to as Declared Rare Flora). Taxa which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such. The assessment of the conservation status of these species is based on their national extent.</p> <p>Ranking:</p> <p>CR · Schedule 1 - taxa that are extant and considered likely to become extinct or rare, as critically endangered flora, and therefore in need of special protection.</p> <p>EN · Schedule 2 - taxa that are extant and considered likely to become extinct or rare, as endangered flora, and therefore in need of special protection.</p> <p>VU · Schedule 3 - taxa that are extant and considered likely to become extinct or rare, as vulnerable flora, and therefore in need of special protection.</p>
<p>EX: Presumed extinct Flora - Specially protected under the BC Act, listed under Schedule 4 of the Wildlife Conservation (Rare Flora) Notice (which may also be referred to as Declared Rare Flora). Taxa which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such. Threatened flora are ranked according to their level of threat using IUCN Red List categories and criteria.</p> <p>EX · Schedule 4 - taxa that are presumed to be extinct in the wild and therefore in need of special protection.</p>
<p>Priority Flora</p> <p>Taxa that may be threatened or near threatened, but are data deficient or have not yet been adequately surveyed to be listed under the Wildlife Conservation (Rare Flora) Notice, are added to the Priority Flora List under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status, so that consideration can be given to their declaration as threatened flora. Taxa that are adequately known and are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened list for other than taxonomic reasons, are placed in Priority 4. These taxa require regular monitoring.</p>
<p>1: Priority One: Poorly-known species</p> <p>Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations, but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.</p>
<p>2: Priority Two: Poorly-known species</p> <p>Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations, but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.</p>
<p>3: Priority Three: Poorly-known species</p> <p>Species that are known from several locations, and the species do not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations, but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.</p>
<p>4: Priority Four: Rare, Near Threatened and other species in need of monitoring</p>

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- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

EPBC Act conservation categories (follow IUCN Red List categories)

Category	Description
Extinct (EX)	A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual.
Extinct in the wild (EW)	A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual.
Critically Endangered (CR)	A taxon is Critically Endangered when the best available evidence indicates that it is considered to be (according to specified criteria) facing an extremely high risk of extinction in the wild.
Endangered (EN)	A taxon is Endangered when it is considered (according to specified criteria) to be facing a very high risk of extinction in the wild.
Vulnerable (VU)	A taxon is Vulnerable when the best available evidence indicates that it is considered (according to specified criteria) to be facing a high risk of extinction in the wild.
Conservation dependent (CD)	A taxon is conservation dependent if, at a particular time, it is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered or critically endangered.

Appendix C: Vegetation Structural Classification (NVIS 1990) and
Vegetation Condition Ranking (EPA 2016a)

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Table 2: Vegetation Condition Scale (adapted from Keighery 1994 and Trudgen 1988)

Vegetation Condition	South West and Interzone Botanical Provinces	Eremaean and Northern Botanical Provinces
Pristine	Pristine or nearly so, no obvious signs of disturbance or damage caused by human activities since European settlement.	
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
Very Good	Vegetation structure altered, obvious signs of disturbance. Disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor		Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, partial clearing, dieback and grazing.	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees and shrubs.	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.

Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment

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Table 1: The NVIS Information Hierarchy.

Hierarchical Level	Description	NVIS structural/floristic components required
I	Class*	Dominant growth form for the ecologically or structurally dominant stratum
II	Structural Formation*	Dominant growth form, cover and height for the ecologically or structurally dominant stratum.
III	Broad Floristic Formation**	Dominant growth form, cover, height and dominant land cover genus for the upper most or the ecologically or structurally dominant stratum.
IV	Sub-Formation**	Dominant growth form, cover, height and dominant genus for each of the three traditional strata. (i.e. Upper, Mid and Ground)
V	Association**	Dominant growth form, height, cover and species (3 species) for the three traditional strata. (i.e. Upper, Mid and Ground)
VI	Sub-Association**	Dominant growth form, height, cover and species (5 species) for all layers/sub-strata.

* Walker & Hopkins (2016a)

** NVIS (defined for the NVIS Information Hierarchy)

Table 4: NVIS structural Formation Terminology.

		Cover Characteristics						
	Foliage cover *	70-100	30-70	10-30		» 0	0-5	unknown
	Crown cover **	>80	50-80	20-50	0.25-20		0-5	unknown
	% Cover ***	>80	50-80	20-50	0.25-20		0-5	unknown
	Cover code	d	c	i	r	bi	bc	unknown
Growth Form		Height Ranges (m)		Structural Formation Classes				
tree, palm	30	closed forest	open forest	woodland	open woodland	isolated trees	isolated clumps of trees	trees
shrub, cycad, grass-tree, tree-fern	2	closed shrubland	shrubland	open shrubland	sparse shrubland	isolated shrubs	isolated clumps of shrubs	shrubs
heath shrub	2	closed heathland	heathland	open heathland	sparse heathland	isolated heath shrubs	isolated clumps of heath shrubs	heath shrubs
tussock grass	0.5	closed tussock grassland	tussock grassland	open tussock grassland	sparse tussock grassland	isolated tussock grasses	isolated clumps of tussock grasses	tussock grasses
other grass	0.5	closed grassland	grassland	open grassland	sparse grassland	isolated grasses	isolated clumps of grasses	other grasses
sedge	0.5	closed sedgeland	sedgeland	open sedgeland	sparse sedgeland	isolated sedges	isolated clumps of sedges	sedges
rush	0.5	closed rushland	rushland	open rushland	sparse rushland	isolated rushes	isolated clumps of rushes	rushes
forb	0.5	closed forbland	forbland	open forbland	sparse forbland	isolated forbs	isolated clumps of forbs	forbs
fern	2	closed fernland	fernland	open fernland	sparse fernland	isolated ferns	isolated clumps of ferns	ferns
vine	30	closed vineland	vineland	open vineland	sparse vineland	isolated vines	isolated clumps of vines	vines

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* Foliage Cover is defined for each stratum as 'the proportion of the ground that would be shaded if sunshine came from directly overhead'. It includes branches and leaves and is similar to the Crown type of Walker & Hopkins (1990) but is applied to a stratum or plot rather than an individual crown. It is generally not directly measured in the field for the upper stratum, although it can be measured by various line interception methods for ground layer vegetation. For the attribute COVER CODE in the Stratum table, the ground cover category refers to ground foliage cover not percentage cover.

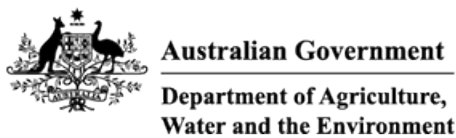
** Crown Cover (canopy cover) as per Walker & Hopkins (1990). Although relationships between the two are dependent on season, species, species age etc (Walker & Hopkins (1990), the crown cover category classes have been adopted as the defining measure.

*** The percentage cover is defined as the percentage of a strictly defined plot area, covered by vegetation. This can be an estimate and is a less precise measure than using, for example, a point intercept transect methods on ground layer, or overstorey vegetative cover. That is for precisely measured values (e.g. crown densitometer or point intercept transects) the value measured would be 'foliage' cover. Where less precise or qualitative measures are used these will most probably be recorded as 'percentage' cover.

Table 6: Example usage of the NVIS Information Hierarchy (Note: For definitions of U, M, G, U1, U2, U3, M1, M2, M3, G1, and G2 refer to Table 1.)**

Level	Description	Species	Growth form	Cover	Height
I	CLASS	-	1 dominant growth form for the dominant stratum	-	-
	Example	<i>Tree</i>			
II	STRUCTURAL FORMATION	-	1 dominant growth form for the dominant stratum	1 cover class for the dominant stratum	1 height class for the dominant stratum
	Example	<i>Open woodland</i>			
III	BROAD FLORISTIC FORMATION	1 dominant genus name for the dominant stratum	1 dominant growth form for dominant stratum	1 cover class for dominant stratum	1 height class for dominant stratum
	Example	<i>Eucalyptus open woodland</i>			
IV	SUB-FORMATION	1 dominant genus name for each stratum ((max 3 strata; i.e. for U, M, G where substantially present)	1 dominant growth form for each stratum (max 3 strata)	1 cover class for each stratum (max 3 strata)	1 height class for each stratum (max 3 strata)
	Example	<i>+Eucalyptus open woodland\Acacia tall sparse shrubland\Aristida open tussock grassland</i>			
V	ASSOCIATION	Up to 3 dominant species for each stratum (max 3 strata; i.e. for U, M, G where present)	Up to 3 dominant growth forms for each stratum (max 3 strata; i.e. for U, M, G where present)	1 cover class code for each stratum (max 3 strata; i.e. for U, M, G where present)	1 height class code for each stratum (max 3 strata; i.e. for U, M, G where present)
	Example	<i>U+ ^Eucalyptus coolabah,Casuarina cristata,Flindersia maculosa\^tree\7\;M ^Acacia salicina,Alectryon oleifolius,Acacia stenophylla\^shrub\4\;G ^Aristida ramosa,Astrebla squarrosa,Bothriochloa decipiens\^tussock grass,forb,sedge\2\</i>			
VI	SUB-ASSOCIATION	Up to 5 dominant species for each sub-stratum (i.e. for U1, U2, U3, M1, M2, M3, G1, G2 where present) <ul style="list-style-type: none"> Indicate characteristic genus in each sub-stratum with an up arrow or hat " ^ ". Must match characteristic growth form. 	Up to 5 dominant growth forms for each sub-stratum. <ul style="list-style-type: none"> Indicate characteristic growth form with an up arrow or hat " ^ ". Must match characteristic genus 	1 cover class code for each sub-stratum	1 height class code for each sub-stratum
	Example	<i>U1+ ^Eucalyptus coolabah,Casuarina cristata,Flindersia maculosa,Eucalyptus\^tree\7\;M1 ^Acacia salicina,Alectryon oleifolius,Acacia stenophylla,Acacia victoriae subsp. victoriae,Eremophila bignoniiflora\Acacia\^shrub\4\;M2 Eremophila longifolia,Muehlenbeckia florulenta,Eremophila\shrub\3\;G1 ^Aristida ramosa,Astrebla squarrosa,Bothriochloa decipiens,Dichanthium sericeum,Enteropogon acicularis\Aristida\^tussock grass,forb,sedge\2\</i>			

Appendix D: EPBC Protected Matters database search results



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 15-Feb-2022

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	2
Listed Threatened Species:	60
Listed Migratory Species:	48

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	3
Commonwealth Heritage Places:	None
Listed Marine Species:	72
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	4
Regional Forest Agreements:	1
Nationally Important Wetlands:	2
EPBC Act Referrals:	9
Key Ecological Features (Marine):	None
Biologically Important Areas:	12
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities [[Resource Information](#)]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Aquatic Root Mat Community 1 in Caves of the Leeuwin Naturaliste Ridge	Endangered	Community known to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only

Listed Threatened Species [[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat may occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
<u>Pachyptila turtur subantarctica</u> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<u>Phoebastria fusca</u> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<u>Pterodroma mollis</u> Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<u>Sternula nereis nereis</u> Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<u>Thalassarche carteri</u> Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
<u>Thalassarche cauta</u> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<u>Thalassarche melanophris</u> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
<u>Thalassarche steadi</u> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
<u>Zanda baudinii listed as Calyptorhynchus baudinii</u> Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
<u>Zanda latirostris listed as Calyptorhynchus latirostris</u>			
Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Species or species habitat likely to occur within area	In feature area
FISH			
<u>Galaxiella nigrostriata</u>			
Blackstriped Dwarf Galaxias, Black-stripe Minnow [88677]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<u>Nannatherina balstoni</u>			
Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
<u>Thunnus maccoyii</u>			
Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
MAMMAL			
<u>Balaenoptera musculus</u>			
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
<u>Dasyurus geoffroi</u>			
Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
<u>Eubalaena australis</u>			
Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
<u>Megaptera novaeangliae</u>			
Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
<u>Neophoca cinerea</u>			
Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area	In buffer area only
<u>Pseudocheirus occidentalis</u>			
Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
<u>Setonix brachyurus</u>			
Quokka [229]	Vulnerable	Species or species habitat may occur within area	In feature area
OTHER			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
PLANT			
Banksia nivea subsp. uliginosa Swamp Honeypot [82766]	Endangered	Species or species habitat likely to occur within area	In feature area
Banksia squarrosa subsp. argillacea Whicher Range Dryandra [82769]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Caladenia hoffmanii Hoffman's Spider-orchid [56719]	Endangered	Species or species habitat may occur within area	In buffer area only
Caladenia lodgeana Lodge's Spider-orchid [68664]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calectasia cyanea Blue Tinsel Lily [7669]	Critically Endangered	Species or species habitat may occur within area	In feature area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Gastrolobium papilio Butterfly-leaved Gastrolobium [78415]	Endangered	Species or species habitat may occur within area	In buffer area only
Grevillea brachystylis subsp. australis [55525]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Kennedia lateritia Augusta Kennedia [45985]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Lambertia echinata subsp. occidentalis Western Prickly Honeysuckle [64528]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Leptomeria dielsiana Diels' Currant Bush [5146]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Verticordia plumosa var. ananeotes Tufted Plumed Featherflower [23871]	Endangered	Species or species habitat may occur within area	In buffer area only
Verticordia plumosa var. vassensis Vasse Featherflower [55804]	Endangered	Species or species habitat may occur within area	In buffer area only
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
SHARK			
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Galeorhinus galeus School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453]	Conservation Dependent	Species or species habitat may occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Listed Migratory Species		[Resource Information]	

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Hydroprogne caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Onychoprion anaethetus Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Migratory Marine Species			
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Eubalaena australis as Balaena glacialis australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area	In buffer area only
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat likely to occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area	In buffer area only
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat likely to occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name	State	Buffer Status
Unknown		
Commonwealth Land - [52112]	WA	In buffer area only
Commonwealth Land - [51483]	WA	In buffer area only
Commonwealth Land - [50386]	WA	In feature area

Listed Marine Species [Resource Information]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area	In feature area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Hydroprogne caspia as Sterna caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Larus pacificus Pacific Gull [811]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat may occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In feature area
Onychoprion anaethetus as Sterna anaethetus Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Stercorarius skua as Catharacta skua Great Skua [823]		Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thinornis cucullatus as Thinornis rubricollis Hooded Dotterel, Hooded Plover [87735]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In buffer area only

Fish

Scientific Name	Threatened Category	Presence Text	Buffer Status
Acentronura australe Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area	In buffer area only
Campichthys galei Gale's Pipefish [66191]		Species or species habitat may occur within area	In buffer area only
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area	In buffer area only
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In buffer area only
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area	In buffer area only
Hippocampus subelongatus West Australian Seahorse [66722]		Species or species habitat may occur within area	In buffer area only
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area	In buffer area only
Lissocampus caudalis Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area	In buffer area only
Lissocampus fatiloquus Prophet's Pipefish [66250]		Species or species habitat may occur within area	In buffer area only
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area	In buffer area only
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species habitat may occur within area	In buffer area only
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area	In buffer area only
Phycodurus eques Leafy Seadragon [66267]		Species or species habitat may occur within area	In buffer area only
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area	In buffer area only
Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area	In buffer area only
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In buffer area only
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area	In buffer area only
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In buffer area only
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In buffer area only
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Vanacampus poecilolaemus Longsnout Pipefish, Australian Longsnout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area	In buffer area only
Mammal			
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat likely to occur within area	In buffer area only
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area	In buffer area only
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Whales and Other Cetaceans			[Resource Information]
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area	In buffer area only
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In buffer area only
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Leeuwin-Naturaliste	National Park	WA	In buffer area only
Ngari Capes	Marine Park	WA	In buffer area only
Scott	National Park	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA15185	Nature Reserve	WA	In buffer area only

Regional Forest Agreements [[Resource Information](#)]

Note that all areas with completed RFAs have been included.

RFA Name	State	Buffer Status
South West WA RFA	Western Australia	In feature area

Nationally Important Wetlands [[Resource Information](#)]

Wetland Name	State	Buffer Status
Blackwood River (Lower Reaches) and Tributaries System	WA	In buffer area only
Cape Leeuwin System	WA	In buffer area only

EPBC Act Referrals [[Resource Information](#)]

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Flat Rock boating facility	2008/4506	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Busselton to Flinders Bay Rails to Trails Project, WA	2013/6835	Not Controlled Action	Completed	In feature area
CTBT - Cape Leeuwin Hydroacoustic Station Proposal	2000/27	Not Controlled Action	Completed	In buffer area only
Geo-science Investigations	2005/2069	Not Controlled Action	Completed	In feature area
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Residential-Rural Subdivision, Lot 1 Kudardup Rd, Kudardup, WA	2012/6471	Not Controlled Action	Completed	In buffer area only
Vegetation clearing for sand extraction, Lot 268 Leeuwin Road, Augusta	2013/6860	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
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Scientific Name	Behaviour	Presence	Buffer Status
Seabirds			
Ardena carneipes Flesh-footed Shearwater [82404]	Foraging (in high numbers)	Known to occur	In buffer area only
Eudyptula minor Little Penguin [1085]	Foraging (provisioning young)	Known to occur	In buffer area only
Hydroprogne caspia Caspian Tern [808]	Foraging (provisioning young)	Known to occur	In buffer area only
Larus pacificus Pacific Gull [811]	Foraging (in high numbers)	Known to occur	In buffer area only
Onychoprion anaethetus Bridled Tern [82845]	Foraging (in high numbers)	Known to occur	In buffer area only
Puffinus assimilis tunneyi Little Shearwater [59363]	Foraging (in high numbers)	Known to occur	In buffer area only
Sternula nereis Fairy Tern [82949]	Foraging (in high numbers)	Known to occur	In buffer area only
Sharks			
Carcharodon carcharias White Shark [64470]	Foraging	Known to occur	In buffer area only
Whales			
Balaenoptera musculus breviceauda Pygmy Blue Whale [81317]	Distribution	Known to occur	In buffer area only
Eubalaena australis Southern Right Whale [40]	Calving buffer	Known to occur	In buffer area only
Eubalaena australis Southern Right Whale [40]	Seasonal calving habitat	Known to occur	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Migration (north)	Known to occur	In buffer area only

Scientific Name	Behaviour	Presence	Buffer Status
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Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- [-Natural history museums of Australia](#)
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
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- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

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Appendix E: DBCA Naturemap database search results



NatureMap Species Report

Created By Mike Braimbridge on 22/11/2021

Kingdom	Plantae
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Circle'
Centre	115° 09' 15" E, 34° 18' 58" S
Buffer	5km
Group By	Family

Family	Species	Records
Acanthaceae	2	2
Acrotylidae	2	5
Amaranthaceae	1	1
Anarthriaceae	3	7
Apiaceae	13	27
Araliaceae	3	3
Areschougaceae	6	12
Asparagaceae	17	34
Asteraceae	30	55
Bonnemaisoniaceae	2	2
Boryaceae	1	1
Brassicaceae	5	6
Bryaceae	2	2
Camparulaceae	6	15
Caulerpaceae	4	5
Celastraceae	1	1
Ceramiaceae	2	3
Chenopodiaceae	5	7
Cladophoraceae	3	4
Colchicaceae	4	7
Convolvulaceae	2	2
Corallinaceae	1	1
Cymodoceaceae	1	1
Cyperaceae	25	47
Cystocloniaceae	1	1
Dasyopogonaceae	1	3
Delesseriaceae	1	1
Demstaedtiaceae	1	1
Dilleniaceae	11	44
Droseraceae	3	6
Elaeocarpaceae	4	6
Eremosynaceae	1	1
Ericaceae	22	47
Fabaceae	58	136
Faucheaceae	1	1
Fissidentaceae	1	1
Galaxauraceae	2	3
Gayraliaceae	1	1
Gelidiaceae	2	3
Gentianaceae	1	1
Geraniaceae	1	1
Goodeniaceae	12	27
Gracilariaceae	2	2
Haemodoraceae	10	18
Halimedaceae	1	1
Haloragaceae	2	6
Hemerocallidaceae	5	10
Hypoxidaceae	1	1
Iridaceae	11	12
Juncaceae	9	14
Juncaginaceae	1	2
Lamiaceae	4	5
Lauraceae	5	7
Lentibulariaceae	2	2
Linaceae	1	1
Lindsaeaceae	1	2
Loganiaceae	3	9
Lomariopsidaceae	1	1
Malvaceae	3	5
Mercuriaceae	3	6
Montiaceae	1	1
Myrtaceae	32	61
Nizyeniaceae	1	1
Onagraceae	2	3
Orchidaceae	44	69
Orobanchaceae	1	1
Oxalidaceae	3	4
Papaveraceae	1	2
Phacelocarpaceae	2	7
Phyllanthaceae	3	7
Pittosporaceae	5	15
Plocamiaceae	2	4
Poaceae	15	23
Podocarpaceae	1	1
Polygalaceae	4	6

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Polygonaceae	1	3
Polydaceae	1	2
Polyphysaceae	1	2
Posidoniaceae	1	1
Potamogetonaceae	3	3
Pottiaceae	1	1
Primulaceae	3	7
Proteaceae	25	45
Ranunculaceae	3	7
Restionaceae	8	8
Rhamnaceae	2	7
Rhodmelaceae	3	4
Rhodymeniaceae	1	1
Rosaceae	1	3
Rubiaceae	3	6
Ruppiaceae	1	2
Rutaceae	13	27
Santalaceae	2	9
Sapindaceae	2	4
Scrophulariaceae	1	2
Solanaceae	1	1
Stylidiaceae	11	15
Thymelaeaceae	7	25
Typhaceae	1	1
Ulvaceae	1	3
Violaceae	1	1
Xanthorrhoeaceae	2	4
Zamiaceae	1	3
Zosteraceae	1	1
TOTAL	549	1041

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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Acanthaceae				
1.	44678 <i>Acanthus mollis</i>	Y		
2.	19716 <i>Thunbergia alata</i>	Y		
Acrotylaceae				
3.	26665 <i>Clavicleonium ovatum</i>			
4.	26915 <i>Hennedya crispata</i>			
Amaranthaceae				
5.	15856 <i>Ptilotus sericostachyus subsp. sericostachyus</i>			
Anarthriaceae				
6.	1062 <i>Anarthria prolifera</i>			
7.	1063 <i>Anarthria scabra</i>			
8.	18049 <i>Lyginia imberbis</i>			
Apiaceae				
9.	6206 <i>Actinotus omnifertilis</i>			
10.	6210 <i>Apium annuum</i>			
11.	12040 <i>Apium prostratum subsp. prostratum var. prostratum (Sea Celery)</i>			
12.	12686 <i>Berula erecta (Narrowleaf Water Parsnip)</i>	Y		
13.	6214 <i>Centella asiatica</i>			
14.	6219 <i>Eryngium pinnatifidum (Blue Devils)</i>			
15.	6221 <i>Foeniculum vulgare (Fennel)</i>	Y		
16.	6249 <i>Platysace compressa (Tapeworm Plant)</i>			
17.	6259 <i>Platysace tenuissima</i>			
18.	6283 <i>Xanthosia atkinsoniana</i>			
19.	6284 <i>Xanthosia candida</i>			
20.	6289 <i>Xanthosia huegelii</i>			
21.	19330 <i>Xanthosia tasmanica</i>			
Araliaceae				
22.	6229 <i>Hydrocotyle diantha</i>			
23.	6241 <i>Hydrocotyle tetragonocarpa</i>			
24.	6280 <i>Trachymene pilosa (Native Parsnip)</i>			
Areschougiaceae				
25.	26484 <i>Areschougia ligulata</i>			
26.	26495 <i>Austroclonium charoides</i>			Y
27.	26534 <i>Callophycus dorsifer</i>			
28.	26536 <i>Callophycus oppositifolius</i>			
29.	26822 <i>Erythroclonium sedoides</i>			
30.	26854 <i>Gigartina disticha</i>			
Asparagaceae				
31.	1208 <i>Acanthocarpus preissii</i>			
32.	20752 <i>Asparagus aethiopicus</i>	Y		
33.	16943 <i>Asparagus declinatus</i>	Y		
34.	20659 <i>Chlorophytum comosum</i>	Y		Y
35.	1223 <i>Lomandra caespitosa (Tufted Mat Rush)</i>			
36.	1229 <i>Lomandra integra</i>			
37.	1234 <i>Lomandra nigricans</i>			
38.	1238 <i>Lomandra pauciflora</i>			
39.	1239 <i>Lomandra preissii</i>			
40.	1240 <i>Lomandra purpurea (Purple Mat Rush)</i>			
41.	1244 <i>Lomandra sonderi</i>			
42.	1312 <i>Sowerbaea laxiflora (Purple Tassels)</i>			
43.	1319 <i>Thysanotus arenarius</i>			
44.	1328 <i>Thysanotus dichotomus (Branching Fringe Lily)</i>			
45.	1338 <i>Thysanotus manglesianus (Fringed Lily)</i>			
46.	1339 <i>Thysanotus multiflorus (Many-flowered Fringe Lily)</i>			
47.	1354 <i>Thysanotus tenellus</i>			
Asteraceae				
48.	7839 <i>Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)</i>	Y		
49.	7878 <i>Brachyscome iberidifolia</i>			
50.	16311 <i>Gazania linearis</i>	Y		
51.	8092 <i>Ixiolaena viscosa (Sticky Ixiolaena)</i>			
52.	18585 <i>Lagenophora huegelii</i>			
53.	17852 <i>Leptorhynchus scaber (Lanky Buttons)</i>			

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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
54.	28292 <i>Leucanthemum x superbum</i> (Shasta Daisy)	Y		
55.	8105 <i>Millotia myosotidifolia</i>			
56.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
57.	8133 <i>Olearia elaeophila</i>			
58.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
59.	8149 <i>Olearia rudis</i> (Rough Daisybush)			
60.	14370 <i>Picris angustifolia</i> subsp. <i>angustifolia</i>			
61.	8160 <i>Picris squarrosa</i>			
62.	42281 <i>Pithocarpa cordata</i>			
63.	42260 <i>Pithocarpa ramosa</i>			
64.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
65.	8189 <i>Pseudognaphalium luteoalbum</i> (Jersey Cudweed)			
66.	13300 <i>Rhodanthe citrina</i>			
67.	8204 <i>Senecio elegans</i> (Purple Groundsel)	Y		
68.	8208 <i>Senecio hispidulus</i> (Hispid Fireweed)			
69.	25884 <i>Senecio pinnatifolius</i> var. <i>latilobus</i>			
70.	25882 <i>Senecio pinnatifolius</i> var. <i>maritimus</i> (Coastal Groundsel)			
71.	8218 <i>Senecio ramosissimus</i> (Auricled Groundsel)			
72.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
73.	8230 <i>Sonchus asper</i> (Rough Sowthistle)	Y		
74.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
75.	45613 <i>Taraxacum khatoonae</i>	Y		
76.	8251 <i>Trichocline spathulata</i> (Native Gerbera)			
77.	13333 <i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
Bonnemaisoniaceae				
78.	26485 <i>Asparagopsis armata</i>			
79.	26757 <i>Delisea pulchra</i>			
Boryaceae				
80.	1272 <i>Borya scirpoidea</i>			
Brassicaceae				
81.	3002 <i>Cakile maritima</i> (Sea Rocket)	Y		
82.	3011 <i>Diplotaxis muralis</i> (Wall Rocket)	Y		
83.	3016 <i>Heliophila pusilla</i>	Y		
84.	3066 <i>Rorippa nasturtium-aquaticum</i> (Watercress)	Y		
85.	3080 <i>Stenopetalum robustum</i>			
Bryaceae				
86.	32380 <i>Gemmabryum pachythecum</i>			
87.	32426 <i>Rosulabryum campylotheicum</i>			
Campanulaceae				
88.	37500 <i>Grammatotheca bergiana</i> var. <i>bergiana</i>	Y		
89.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
90.	7399 <i>Isotoma scapigera</i> (Long-scaped Isotome)			
91.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
92.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
93.	7388 <i>Wahlenbergia multicaulis</i>			
Caulerpaceae				
94.	26555 <i>Caulerpa brownii</i>			
95.	26556 <i>Caulerpa cactoides</i>			
96.	48455 <i>Caulerpa geminata</i>			
97.	26574 <i>Caulerpa scalpelliformis</i>			
Celastraceae				
98.	9069 <i>Stackhousia huegelii</i>			
Ceramiaceae				
99.	27194 <i>Psilothallia striata</i>			
100.	27364 <i>Wollastoniella myriophylloides</i>			
Chenopodiaceae				
101.	2462 <i>Atriplex hypoleuca</i>			
102.	2578 <i>Rhagodia baccata</i> (Berry Saltbush)			
103.	11341 <i>Rhagodia baccata</i> subsp. <i>baccata</i>			
104.	2639 <i>Suaeda australis</i> (Seablite)			
105.	31718 <i>Tecticornia lepidosperma</i>			
Cladophoraceae				
106.	26481 <i>Apjohnia laetevirens</i>			
107.	26613 <i>Chaetomorpha valida</i>			
108.	36279 <i>Rhizoclonium riparium</i>			

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Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Colchicaceae				
109.	12770 <i>Burchardia congesta</i>			
110.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
111.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
112.	1398 <i>Wurmbea monantha</i>			
Convolvulaceae				
113.	6616 <i>Dichondra repens</i> (Kidney Weed)			
114.	6630 <i>Ipomoea indica</i> (Morning Glory)	Y		
Corallinaceae				
115.	27069 <i>Metagoniolithon stelliferum</i>			
Cymodoceaceae				
116.	134 <i>Thalassodendron pachyrhizum</i>			
Cyperaceae				
117.	740 <i>Baumea arthrophylla</i>			
118.	741 <i>Baumea articulata</i> (Jointed Rush)			
119.	743 <i>Baumea juncea</i> (Bare Twigrush)			
120.	744 <i>Baumea laxa</i>			
121.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
122.	43241 <i>Carex thecata</i>			
123.	783 <i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
124.	792 <i>Cyperus eragrostis</i> (Umbrella Sedge)	Y		
125.	834 <i>Evandra aristata</i>			
126.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
127.	20199 <i>Isolepis cernua</i> var. <i>cernua</i>			
128.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
129.	10831 <i>Isolepis prolifera</i> (Budding Club-rush)	Y		
130.	925 <i>Lepidosperma angustatum</i>			
131.	932 <i>Lepidosperma effusum</i> (Spreading Sword-sedge)			
132.	940 <i>Lepidosperma pubisquamum</i>			
133.	20398 <i>Lepidosperma</i> sp. Blackwood (R. Davis 7696)			
134.	945 <i>Lepidosperma squamatum</i>			
135.	953 <i>Mesomelaena graciliceps</i>			
136.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
137.	986 <i>Schoenus efoliatus</i>			
138.	1004 <i>Schoenus nitens</i> (Shiny Bog-rush)			
139.	16269 <i>Schoenus</i> sp. Grassy (E. Gude & J. Harvey 250)		P2	
140.	19946 <i>Schoenus</i> sp. South coast (R. Davis 10239)			
141.	35582 <i>Tetragonia</i> sp. Mt Madden (C.D. Turley 40 BP/897)			
Cystocloniaceae				
142.	26971 <i>Hypnea ramentacea</i>			
Dasypogonaceae				
143.	1218 <i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
Delesseriaceae				
144.	26622 <i>Chauvinella coriifolia</i>			
Dennstaedtiaceae				
145.	57 <i>Pteridium esculentum</i> (Bracken)			
Dilleniaceae				
146.	5109 <i>Hibbertia amplexicaulis</i>			
147.	5117 <i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)			
148.	5118 <i>Hibbertia cunninghamii</i>			
149.	20051 <i>Hibbertia diamesogenos</i>			
150.	5132 <i>Hibbertia grossularifolia</i>			
151.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
152.	5137 <i>Hibbertia inconspicua</i>			
153.	19687 <i>Hibbertia notibractea</i>			
154.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
155.	5169 <i>Hibbertia serrata</i> (Serrate Leaved Guinea Flower)			
156.	5171 <i>Hibbertia spicata</i>			
Droseraceae				
157.	48751 <i>Drosera drummondii</i>			
158.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
159.	3102 <i>Drosera huegellii</i> (Bold Sundew)			
Elaeocarpaceae				
160.	4533 <i>Tetratheca filiformis</i>			

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Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
161.	4544 <i>Tetradlea setigera</i>			
162.	4547 <i>Tremandra diffusa</i>			
163.	4548 <i>Tremandra stelligera</i>			
Eremosynaceae				
164.	3149 <i>Eremosyne pectinata</i>			
Ericaceae				
165.	6306 <i>Andersonia caerulea</i> (Foxtails)			
166.	6323 <i>Astroloma ciliatum</i> (Candle Cranberry)			
167.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
168.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
169.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
170.	6367 <i>Leucopogon capitellatus</i>			
171.	6387 <i>Leucopogon distans</i>			
172.	6402 <i>Leucopogon hirsutus</i>			
173.	40941 <i>Leucopogon obovatus</i> subsp. <i>revolutus</i>			
174.	35499 <i>Leucopogon paradoxus</i>			
175.	6427 <i>Leucopogon parviflorus</i> (Coast Beard-heath)			
176.	6428 <i>Leucopogon pendulus</i>			
177.	6436 <i>Leucopogon propinquus</i>			
178.	34718 <i>Leucopogon</i> sp. Southern Forests (B.G. Hammersley 1000)			
179.	35559 <i>Leucopogon tenuicaulis</i>			
180.	6454 <i>Leucopogon verticillatus</i> (Tassel Flower)			
181.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
182.	6457 <i>Lysinema conspicuum</i>			
183.	34736 <i>Lysinema pentapetalum</i>			
184.	31931 <i>Sphenotoma capitata</i>			
185.	31952 <i>Sphenotoma gracilis</i> (Swamp Paper-heath)			
186.	49143 <i>Styphelia</i> sp. Nannup (R.D. Royce 3978)			
Fabaceae				
187.	3207 <i>Acacia alata</i> (Winged Wattle)			
188.	15429 <i>Acacia alata</i> var. <i>alata</i>			
189.	11731 <i>Acacia browniana</i> var. <i>browniana</i>			
190.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)			
191.	3307 <i>Acacia divergens</i>			
192.	3347 <i>Acacia gilbertii</i>			
193.	3374 <i>Acacia huegelii</i>			
194.	18217 <i>Acacia iteaphylla</i>	Y		
195.	3424 <i>Acacia littorea</i>			
196.	3453 <i>Acacia myrtifolia</i>			
197.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
198.	15483 <i>Acacia pulchella</i> var. <i>pulchella</i>			
199.	3525 <i>Acacia rostellifera</i> (Summer-scented Wattle)			
200.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
201.	3588 <i>Acacia uliginosa</i>			
202.	3591 <i>Acacia urophylla</i>			
203.	3685 <i>Actus carinata</i>		P4	
204.	3708 <i>Bossiaea disticha</i>			
205.	3713 <i>Bossiaea linophylla</i>			
206.	14291 <i>Bossiaea praetermissa</i>			
207.	3718 <i>Bossiaea rufa</i>			
208.	10861 <i>Callistachys lanceolata</i> (Wonnich)			
209.	13112 <i>Chorizema aciculare</i> subsp. <i>aciculare</i>			
210.	3754 <i>Chorizema diversifolium</i>			
211.	17368 <i>Crotalaria agatiflora</i> subsp. <i>agatiflora</i>	Y		
212.	19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
213.	3811 <i>Daviesia flexuosa</i>			
214.	3817 <i>Daviesia inflata</i>			
215.	3867 <i>Dipogon lignosus</i> (Dolichos Pea)	Y		
216.	20214 <i>Eutaxia myrtifolia</i>			
217.	3880 <i>Eutaxia virgata</i>			
218.	20473 <i>Gastrolobium ebracteolatum</i>			
219.	20504 <i>Gastrolobium formosum</i>		P3	
220.	3948 <i>Gompholobium capitatum</i>			
221.	3953 <i>Gompholobium ovatum</i>			
222.	3954 <i>Gompholobium polymorphum</i>			
223.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
224.	3964 <i>Hovea chorizemifolia</i> (Holly-leaved Hovea)			
225.	3965 <i>Hovea elliptica</i> (Tree Hovea)			
226.	3968 <i>Hovea trisperma</i> (Common Hovea)			

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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
227.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
228.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
229.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
230.	4017 <i>Jacksonia horrida</i>			
231.	4036 <i>Kennedia carinata</i>			
232.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
233.	37960 <i>Kennedia coccinea</i> subsp. <i>calcaria</i>			
234.	33518 <i>Kennedia lateritia</i> (Augusta Kennedia)		T	
235.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
236.	4072 <i>Medicago arabica</i> (Spotted Medic)	Y		
237.	4090 <i>Mirbelia dilatata</i> (Holly-leaved Mirbelia)			
238.	17114 <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>			
239.	40080 <i>Psoralea arborea</i>	Y		
240.	20195 <i>Pultenaea brachytrypis</i>			
241.	4181 <i>Pultenaea reticulata</i>			
242.	4256 <i>Templetonia retusa</i> (Cockies Tongues)			
243.	4302 <i>Trifolium ligusticum</i> (Ligurian Clover)	Y		
244.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
Faucaeaceae				
245.	27362 <i>Webervanbossea splachnoides</i>			
Fissidentaceae				
246.	32470 <i>Fissidens tenellus</i> var. <i>australiensis</i>			
Galaxauraceae				
247.	29616 <i>Dichotomaria marginata</i>			
248.	34959 <i>Dichotomaria spathulata</i>			
Gayraliaceae				
249.	26841 <i>Gayralia oxysperma</i>			
Gelidiaceae				
250.	27195 <i>Pterocladia lucida</i>			
251.	27196 <i>Pterocladia rectangularis</i>			
Gentianaceae				
252.	6542 <i>Centaureum tenuiflorum</i>	Y		
Geraniaceae				
253.	4346 <i>Pelargonium littorale</i>			
Goodeniaceae				
254.	7444 <i>Dampiera hederacea</i> (Karri Dampiera)			
255.	7446 <i>Dampiera heteroptera</i>		P3	
256.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
257.	7487 <i>Diaspasis filifolia</i> (Thread-leaved Diaspasis)			
258.	7505 <i>Goodenia eatoniana</i>			
259.	13165 <i>Goodenia pusilla</i>			
260.	7572 <i>Lechenaultia expansa</i>			
261.	7602 <i>Scaevola calliptera</i>			
262.	7614 <i>Scaevola globulifera</i>			
263.	7626 <i>Scaevola nitida</i> (Shining Fanflower)			
264.	7662 <i>Velleia macrophylla</i> (Large-leaved Velleia)			
265.	7665 <i>Velleia trinervis</i>			
Gracilariaceae				
266.	26712 <i>Curdiea obesa</i>			
267.	26876 <i>Gracilaria verrucosa</i>			
Haemodoraceae				
268.	1407 <i>Anigozanthos flavidus</i> (Tall Kangaroo Paw)			
269.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
270.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
271.	1438 <i>Conostylis laxiflora</i>			
272.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
273.	1472 <i>Haemodorum simplex</i>			
274.	1475 <i>Haemodorum spicatum</i> (Mardja)			
275.	1478 <i>Phlebocarya ciliata</i>			
276.	1481 <i>Tribonanthes australis</i> (Southern Tiurmdin)			
277.	1485 <i>Tribonanthes violacea</i> (Violet Tiurmdin)			
Halimedaceae				
278.	47213 <i>Halimeda versatilis</i>			
Haloragaceae				

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Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
279.	6146 <i>Gonocarpus berthamii</i>			
280.	34676 <i>Meioneclis brownii</i> (Swamp Raspwort)			
Hemerocallidaceae				
281.	1277 <i>Caesia occidentalis</i>			
282.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
283.	1297 <i>Johnsonia lupulina</i> (Hooded Lily)			
284.	1260 <i>Stypandra glauca</i> (Blind Grass)			
285.	1362 <i>Tricoryne humilis</i>			
Hypoxidaceae				
286.	43760 <i>Pauridia occidentalis</i>			
Iridaceae				
287.	1514 <i>Crocosmia x crocosmiiflora</i>	Y		
288.	11445 <i>Ferraria crispa</i> subsp. <i>crispa</i>	Y		
289.	1532 <i>Ixia maculata</i> (Yellow Ixia)	Y		
290.	1533 <i>Ixia paniculata</i>	Y		
291.	1539 <i>Orthrosanthus multiflorus</i> (Morning Iris)			
292.	1540 <i>Orthrosanthus polystachyus</i> (Many Spike Orthrosanthus)			
293.	1546 <i>Patersonia juncea</i> (Rush Leaved Patersonia)			
294.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
295.	1553 <i>Patersonia umbrosa</i> (Yellow Flags)			
296.	11550 <i>Patersonia umbrosa</i> var. <i>xanthina</i> (Yellow Flags)			
297.	1558 <i>Sparaxis bulbifera</i>	Y		
Juncaceae				
298.	1177 <i>Juncus articulatus</i> (Jointed Rush)	Y		
299.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
300.	1179 <i>Juncus caespiticus</i> (Grassy Rush)			
301.	1184 <i>Juncus holoschoenus</i> (Jointleaf Rush)			
302.	1185 <i>Juncus kraussii</i> (Sea Rush)			
303.	11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>			
304.	1190 <i>Juncus planifolius</i> (Broadleaf Rush)			
305.	1195 <i>Juncus subsecundus</i> (Finger Rush)			
306.	1198 <i>Luzula meridionalis</i> (Field Woodrush)			
Juncaginaceae				
307.	151 <i>Triglochin striata</i>			
Lamiaceae				
308.	6839 <i>Hemiandra pungens</i> (Snakebush)			
309.	38322 <i>Hemiandra</i> sp. Windy Harbour (B.J. Conn & J.A. Scott BJC 3344)		P3	
310.	6883 <i>Mentha pulegium</i> (Pennyroyal)	Y		
311.	6884 <i>Mentha spicata</i> (Spearmint)	Y		
Lauraceae				
312.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
313.	2956 <i>Cassytha pomiformis</i> (Dodder Laurel)			
314.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
315.	11242 <i>Cassytha racemosa</i> forma <i>pilosa</i>			
316.	11799 <i>Cassytha racemosa</i> forma <i>racemosa</i>			
Lentibulariaceae				
317.	7145 <i>Utricularia menziesii</i> (Redcoats)			
318.	7148 <i>Utricularia multifida</i>			
Linaceae				
319.	4363 <i>Linum trigynum</i> (French Flax)	Y		
Lindsaeaceae				
320.	59 <i>Lindsaea linearis</i> (Screw Fern)			
Loganiaceae				
321.	6515 <i>Logania vaginalis</i> (White Spray)			
322.	46316 <i>Orianthera serpyllifolia</i> subsp. <i>angustifolia</i>			
323.	16825 <i>Phyllangium divergens</i>			
Lomariopsidaceae				
324.	18330 <i>Nephrolepis cordifolia</i>	Y		
Malvaceae				
325.	40863 <i>Commersonia corylifolia</i> (Hazel-leaved Rulingia)			
326.	5092 <i>Thomasia pauciflora</i> (Few Flowered Thomasia)			
327.	5105 <i>Thomasia triphylla</i>			
Menyanthaceae				

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328.	36160 <i>Liparophyllum capitatum</i>			
329.	36180 <i>Liparophyllum latifolium</i>			
330.	36181 <i>Ornduffia parnassifolia</i>			
Montiaceae				
331.	40827 <i>Calandrinia tholiformis</i>			
Myrtaceae				
332.	5316 <i>Agonis flexuosa</i> (Peppermint, Wonil)			
333.	17202 <i>Agonis flexuosa</i> var. <i>flexuosa</i>			
334.	20283 <i>Astartea scoparia</i> (Common Astartea)			
335.	5392 <i>Beaufortia sparsa</i> (Swamp Bottlebrush)			
336.	35799 <i>Calothamnus lateralis</i> var. <i>crassus</i>		P3	
337.	17104 <i>Corymbia calophylla</i> (Marri)			
338.	18193 <i>Darwinia thymoides</i> subsp. <i>thymoides</i>			
339.	5625 <i>Eucalyptus diversicolor</i> (Karri)			
340.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
341.	5816 <i>Homalospermum firmum</i>			
342.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
343.	5819 <i>Hypocalymma ericifolium</i>			
344.	43120 <i>Hypocalymma minus</i>			
345.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
346.	17461 <i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
347.	5841 <i>Kunzea recurva</i>			
348.	14776 <i>Kunzea rostrata</i>			
349.	14775 <i>Kunzea spathulata</i>			
350.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
351.	36296 <i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Y		
352.	5900 <i>Melaleuca cuticularis</i> (Saltwater Paperbark)			
353.	13271 <i>Melaleuca huegelii</i> subsp. <i>huegelii</i>			
354.	5921 <i>Melaleuca incana</i> (Grey Honey Myrtle)			
355.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
356.	5952 <i>Melaleuca preissiana</i> (Moonah)			
357.	5959 <i>Melaleuca rhapsiophylla</i> (Swamp Paperbark)			
358.	5980 <i>Melaleuca thymoides</i>			
359.	5987 <i>Melaleuca viminea</i> (Mohan)			
360.	15501 <i>Pericalymma spongiocaula</i>			
361.	20113 <i>Taxandria inundata</i>			
362.	20135 <i>Taxandria linearifolia</i>			
363.	20133 <i>Taxandria parviceps</i>			
Nizyeniaceae				
364.	27103 <i>Nizyenia conferta</i>			
Onagraceae				
365.	6131 <i>Epilobium billardioreanum</i> (Glabrous Willow Herb)			
366.	11570 <i>Epilobium billardioreanum</i> subsp. <i>billardioreanum</i> (Smooth Willow Herb)			
Orchidaceae				
367.	13852 <i>Caladenia abbreviata</i>		P3	
368.	15328 <i>Caladenia applanata</i> subsp. <i>applanata</i>			
369.	13853 <i>Caladenia arrecta</i>			
370.	15332 <i>Caladenia attingens</i> subsp. <i>attingens</i>			
371.	15335 <i>Caladenia brownii</i>			
372.	1580 <i>Caladenia cairnsiana</i> (Zebra Orchid)			
373.	1581 <i>Caladenia corynephora</i>			
374.	10776 <i>Caladenia ensata</i>			
375.	13619 <i>Caladenia excelsa</i>		T	
376.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
377.	15351 <i>Caladenia gardneri</i>			
378.	1597 <i>Caladenia infundibularis</i>			
379.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
380.	18037 <i>Caladenia lodgeana</i>		T	
381.	15366 <i>Caladenia longicauda</i> subsp. <i>merrittii</i>			
382.	15372 <i>Caladenia nana</i> subsp. <i>unita</i>			
383.	15375 <i>Caladenia pholcoidea</i>			
384.	18034 <i>Caladenia pholcoidea</i> subsp. <i>augustensis</i>		P1	Y
385.	18033 <i>Caladenia pholcoidea</i> subsp. <i>pholcoidea</i>			
386.	15379 <i>Caladenia serotina</i>			
387.	1627 <i>Cryptostylis ovata</i> (Slipper Orchid)			
388.	10916 <i>Cyrtostylis huegelii</i>			
389.	44140 <i>Diuris jonesii</i>			
390.	1633 <i>Diuris laevis</i> (Nannygoat Orchid)			

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391.	1635 <i>Diuris longifolia</i> (Common Donkey Orchid)			
392.	49036 <i>Diuris</i> sp. <i>Augusta</i> (G. Brockman GBB 1469)			Y
393.	1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)			
394.	1643 <i>Elythrastera brunonis</i> (Purple Enamel Orchid)			
395.	15410 <i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>			
396.	1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)			
397.	34158 <i>Microtis alboviridis</i>			
398.	15419 <i>Microtis media</i> subsp. <i>media</i>			
399.	1668 <i>Prasophyllum brownii</i>			
400.	1677 <i>Prasophyllum macrostachyum</i> (Laughing Leek Orchid)			
401.	44084 <i>Prasophyllum</i> sp. <i>early</i> (G. Brockman GBB 1626)			
402.	44526 <i>Pterostylis karri</i>			
403.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
404.	1694 <i>Pterostylis rogersii</i> (Curled-tongue Shell Orchid)			
405.	48683 <i>Pterostylis serotina</i>			
406.	10998 <i>Pterostylis turfosa</i> (Bird Orchid)			
407.	1704 <i>Thelymitra cornicina</i> (Lilac Sun Orchid)			
408.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			
409.	1708 <i>Thelymitra fuscolutea</i> (Chestnut Sun Orchid)			
410.	18248 <i>Thelymitra granitora</i>			
Orobanchaceae				
411.	7089 <i>Parentucellia latifolia</i> (Common Bartsia)	Y		
Oxalidaceae				
412.	4349 <i>Oxalis corniculata</i> (Yellow Wood Sorrel)	Y		
413.	4352 <i>Oxalis glabra</i>	Y		
414.	4354 <i>Oxalis incarnata</i>	Y		
Papaveraceae				
415.	31532 <i>Fumaria muralis</i> subsp. <i>muralis</i>	Y		
Phacelocarpaceae				
416.	27131 <i>Phacelocarpus alatus</i>			
417.	27133 <i>Phacelocarpus labillardieri</i>			
Phyllanthaceae				
418.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
419.	4688 <i>Poranthera drummondii</i>			
420.	4690 <i>Poranthera huegelii</i>			
Pittosporaceae				
421.	3157 <i>Billardiera floribunda</i> (White-flowered Billardiera)			
422.	25798 <i>Billardiera fusiformis</i> (Australian Bluebell)			
423.	3165 <i>Billardiera variifolia</i>			
424.	17637 <i>Marianthus candidus</i> (White Marianthus)			
425.	17630 <i>Marianthus tenuis</i>			
Plocamiaceae				
426.	27156 <i>Plocamium mertensii</i>			
427.	27157 <i>Plocamium preissianum</i>			
Poaceae				
428.	35159 <i>Ammophila arenaria</i> subsp. <i>arenaria</i>	Y		
429.	202 <i>Anthoxanthum odoratum</i> (Sweet Vernal Grass)	Y		
430.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
431.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y		
432.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
433.	320 <i>Digitaria sanguinalis</i> (Crab Grass)	Y		
434.	11451 <i>Hemarthria uncinata</i> var. <i>uncinata</i>			
435.	452 <i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
436.	479 <i>Lolium temulentum</i> (Drake)	Y		
437.	577 <i>Poa poiliformis</i> (Coastal Poa)			
438.	578 <i>Poa porphyroclados</i>			
439.	8710 <i>Sporobolus africanus</i> (Parramatta Grass)	Y		
440.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
441.	636 <i>Stenotaphrum secundatum</i> (Buffalo Grass)	Y		
442.	667 <i>Tetrarrhena laevis</i> (Forest Ricegrass)			
Podocarpaceae				
443.	86 <i>Podocarpus drouynianus</i> (Wild Plum, Kula)			
Polygalaceae				
444.	4554 <i>Comesperma flavum</i>			
445.	4564 <i>Comesperma virgatum</i> (Milkwort)			

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446.	8395 <i>Polygala myrtifolia</i> (Myrtleleaf Milkwort)	Y		
447.	4578 <i>Polygala virgata</i>	Y		
Polygonaceae				
448.	2412 <i>Muehlenbeckia adpressa</i> (Climbing Lignum)			
Polydaceae				
449.	27220 <i>Rhodopeltis australis</i>			
Polyphysaceae				
450.	13146 <i>Acetabularia peniculus</i>			
Posidoniaceae				
451.	122 <i>Posidonia angustifolia</i>			
Potamogetonaceae				
452.	48624 <i>Althenia cylindrocarpa</i>			
453.	110 <i>Potamogeton drummondii</i>			
454.	44492 <i>Stuckenia pectinata</i>			
Pottiaceae				
455.	32451 <i>Triquetrella papillata</i>			
Primulaceae				
456.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
457.	6484 <i>Samolus repens</i> (Creeping Brookweed)			
458.	6485 <i>Samolus valerandi</i> (Water Pimpernel)	Y		
Proteaceae				
459.	1776 <i>Adenanthos detmoldii</i> (Scott River Jugflower)		P4	
460.	1790 <i>Adenanthos meisneri</i>			
461.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
462.	28281 <i>Adenanthos</i> sp. <i>Whicher Range</i> (G. J. Keighery 9736)			
463.	32525 <i>Banksia formosa</i> (Showy Dryandra)			
464.	1819 <i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
465.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
466.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
467.	17107 <i>Banksia meisneri</i> subsp. <i>ascendens</i> (Scott River Banksia)		P4	
468.	1837 <i>Banksia occidentalis</i> (Red Swamp Banksia)			
469.	1862 <i>Conospermum caeruleum</i> (Blue Brother)			
470.	16878 <i>Conospermum caeruleum</i> subsp. <i>spathulatum</i>			
471.	16853 <i>Conospermum capitatum</i> subsp. <i>glabratum</i>			
472.	1945 <i>Franklandia triaristata</i> (Lanoline Bush)		P4	
473.	14010 <i>Grevillea brachystylis</i> subsp. <i>australis</i>		T	
474.	2080 <i>Grevillea quercifolia</i> (Oak-leaf Grevillea)			
475.	2128 <i>Hakea amplexicaulis</i> (Prickly Hakea)			
476.	2137 <i>Hakea ceratophylla</i> (Horned Leaf Hakea)			
477.	2159 <i>Hakea falcata</i>			
478.	2170 <i>Hakea lasianthoides</i>			
479.	2191 <i>Hakea oleifolia</i> (Dungyn)			
480.	2203 <i>Hakea ruscifolia</i> (Candle Hakea)			
481.	2267 <i>Persoonia longifolia</i> (Snottygobble)			
482.	16883 <i>Synaphea damopsis</i>			
483.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
Ranunculaceae				
484.	2929 <i>Clematis pubescens</i> (Common Clematis)			
485.	2932 <i>Ranunculus colonorum</i> (Common Buttercup)			
486.	2933 <i>Ranunculus muricatus</i> (Sharp Buttercup)	Y		
Restionaceae				
487.	16595 <i>Desmocladius flexuosus</i>			
488.	17841 <i>Hypolaena pubescens</i>			
489.	46376 <i>Leptocarpus denmarkicus</i>			
490.	1080 <i>Leptocarpus scariosus</i>			
491.	17552 <i>Lepyrodia porterae</i>			
492.	17682 <i>Melanostachya ustulata</i>			
493.	14915 <i>Sporanthus strictus</i>			
494.	17680 <i>Tyrbastes glaucescens</i>			
Rhamnaceae				
495.	4828 <i>Spyridium globulosum</i> (Basket Bush)			
496.	33438 <i>Trymalium odoratissimum</i> subsp. <i>trifidum</i>			
Rhodomelaceae				
497.	26751 <i>Dasyclonium flaccidum</i>			

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498.	26995 <i>Kuetzingia canaliculata</i>			
499.	27107 <i>Osmundaria prolifera</i>			
Rhodymeniaceae				
500.	26864 <i>Gloiosaccion brownii</i>			
Rosaceae				
501.	17718 <i>Rubus rugosus</i>	Y		
Rubiaceae				
502.	29283 <i>Coprosma repens</i>	Y		
503.	7346 <i>Opercularia echinocephala</i> (Bristly Headed Stink Weed)			
504.	7348 <i>Opercularia hispidula</i> (Hispid Stinkweed)			
Ruppiaceae				
505.	115 <i>Ruppia megacarpa</i>			
Rutaceae				
506.	4401 <i>Asterolasia squamuligera</i>			
507.	4403 <i>Boronia alata</i> (Winged Boronia)			
508.	16313 <i>Boronia anceps</i>		P3	
509.	4413 <i>Boronia crenulata</i> (Aniseed Boronia)			
510.	29274 <i>Boronia crenulata</i> subsp. <i>crenulata</i>			
511.	11503 <i>Boronia crenulata</i> subsp. <i>crenulata</i> var. <i>crenulata</i>			
512.	16632 <i>Boronia juncea</i> subsp. <i>minima</i>			
513.	4441 <i>Boronia spathulata</i> (Boronia)			
514.	4442 <i>Boronia stricta</i>			
515.	20392 <i>Boronia tenuior</i>			
516.	4448 <i>Chorilaena quercifolia</i> (Chorilaena)			
517.	18529 <i>Philotheca spicata</i> (Pepper and Salt)			
518.	18547 <i>Rhadinothamnus anceps</i>			
Santalaceae				
519.	10765 <i>Exocarpos sparteus</i> (Broom Ballart, Djuk)			
520.	2355 <i>Leptomeria squarrolosa</i>			
Sapindaceae				
521.	4757 <i>Dodonaea ceratocarpa</i>			
522.	17338 <i>Dodonaea viscosa</i> subsp. <i>viscosa</i>	Y		
Scrophulariaceae				
523.	7292 <i>Myoporum oppositifolium</i> (Twin-leaf Myoporum)			
Solanaceae				
524.	7022 <i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
Stylidiaceae				
525.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
526.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
527.	30278 <i>Stylidium androsaceum</i>			
528.	39960 <i>Stylidium angustifolium</i> subsp. <i>angustifolium</i>			
529.	19251 <i>Stylidium eripodum</i>			
530.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
531.	17850 <i>Stylidium ireneae</i>		P4	
532.	7773 <i>Stylidium petiolare</i> (Horn Triggerplant)			
533.	7787 <i>Stylidium rhyngocarpum</i> (Black-beaked Triggerplant)			
534.	7798 <i>Stylidium schoenoides</i> (Cow Kicks)			
535.	7799 <i>Stylidium spathulatum</i> (Creamy Triggerplant)			
Thymelaeaceae				
536.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
537.	5239 <i>Pimelea clavata</i>			
538.	5243 <i>Pimelea ferruginea</i>			
539.	5249 <i>Pimelea hispida</i> (Bristly Pimelea)			
540.	5252 <i>Pimelea lanata</i>			
541.	5255 <i>Pimelea longiflora</i>			
542.	5269 <i>Pimelea sylvestris</i>			
Typhaceae				
543.	99 <i>Typha orientalis</i> (Bulrush, Cumbungi)			
Ulvaceae				
544.	35126 <i>Ulva linza</i>			
Violaceae				
545.	5218 <i>Hybanthus debilissimus</i>			

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.



Department of Biodiversity,
Conservation and Attractions



SHIRE OF AUGUSTA MARGARET RIVER
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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Xanthorrhoeaceae				
546.	11299 <i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
547.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
Zamiaceae				
548.	85 <i>Macrozamia riedlei</i> (<i>Zamia</i> , <i>Djiridji</i>)			
Zosteraceae				
549.	31115 <i>Heterozostera polychlamys</i>			

Conservation Codes

- T - Rare or likely to become extinct
- X - Presumed extinct
- IA - Protected under international agreement
- S - Other specially protected fauna
- 1 - Priority 1
- 2 - Priority 2
- 3 - Priority 3
- 4 - Priority 4
- 5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



Appendix F: Species List Site Matrix

SHIRE OF AUGUSTA MARGARET RIVER
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Family	Species	Cons Status	Introduced	Site 1	Site 2	OPP
Anarthriaceae	<i>Anarthria proflera</i>				X	
Aplaceae	<i>Platysoae tenuissima</i>				X	X
	<i>Xanthosia candida</i>				X	
	<i>Xanthosia tasmanica</i>					X
Asparagaceae	<i>Lamandra integra</i>				X	
	<i>Lamandra pauciflora</i>				X	X
	<i>Sowerbaea laxiflora</i>				X	
	<i>Thysanotus dichotomus</i>			X	X	
	<i>Thysanotus gracilis</i>				X	X
Asparagaceae	<i>Thysanotus multiflorus</i>				X	
Asteraceae	<i>Hypochaeris glabra</i>		*			X
	<i>Lagenophora huegellii</i>				X	
	<i>Pithocarpa ramosa</i>				X	
	<i>Senecio dioschides</i>				X	
Calchicaceae	<i>Burchardia congesta</i>			X		
	<i>Burchardia umbellata</i>			X		
Cyathochaeta	<i>Cyathochaeta avenacea</i>			X		
Cyperaceae	<i>Lepidosperma squamatum</i>					X
	<i>Lepidosperma pubisquamatum</i>			X		
	<i>Mesamelaena tetragona</i>			X	X	
	<i>Morelotia octandra</i>				X	
Dennstaedtiaceae	<i>Pteridium esculentum</i>				X	
Dilleniaceae	<i>Hibbertia amplexicaulis</i>			X	X	
	<i>Hibbertia hypericaloides</i>				X	
Elaeocarpaceae	<i>Tremandra diffusa</i>			X	X	
Ericaceae	<i>Leucopogon australis</i>				X	X
	<i>Leucopogon verticillatus</i>				X	X
	<i>Leucopogon capitellatus</i>				X	
	<i>Sphenotoma capitata</i>				X	X
Fabaceae	<i>Acacia alata</i>				X	
	<i>Acacia divergens</i>			X		
	<i>Acacia divergens</i>				X	
	<i>Acacia longifolia</i>				X	
	<i>Acacia myrsifolia</i>			X	X	
	<i>Acacia pulchella</i>			X	X	
	<i>Hovea elliptica</i>			X	X	
	<i>Viminaria juncea</i>			X	X	
	<i>Bossiaea disticha</i>				X	X
	<i>Kennedia carinata</i>			X		
	<i>Kennedia coccinea</i>					X
	<i>Trifolium glomeratum</i>				X	X
Goodeniaceae	<i>Scaevola colliptera</i>			X	X	
	<i>Dampiera olata</i>			X		
Haemodoraceae	<i>Anigozanthus flavidus</i>					X
Hemerocallidaceae	<i>Agrostocrinum hirsutum</i>				X	
	<i>Agrostocrinum scabrum</i>					X
	<i>Caesia micrantha</i>			X	X	
	<i>Chamaescilla sp.</i>					X
	<i>Johnsonia lupulina</i>					X
Iridaceae	<i>Gladiolus sp.</i>		*			X
	<i>Paterosonia occidentalis</i>			X	X	
	<i>Paterosonia umbrosa var. xanthina</i>				X	X
Juncaceae	<i>Juncus articulatus</i>					X
Lauraceae	<i>Cassythia sp.</i>			X		
Loganiaceae	<i>Logania vaginalis</i>				X	X
Malvaceae	<i>Thomasia pauciflora</i>			X	X	
Menyanthaceae	<i>Ondoufia parmasifolia</i>			X	X	
Myrtaceae	<i>Agonis flexuosus</i>			X		
	<i>Corymbia calophylla</i>			X	X	
	<i>Eucalyptus marginata</i>			X	X	
	<i>Melaleuca incana</i>			X		
	<i>Astartea scoparia</i>					X
Orchidaceae	<i>Caladenia attingens</i>					X
	<i>Caladenia flava</i>					X
	<i>Caladenia sp.</i>				X	
Orianthera	<i>Orianthera serpyllifolia subsp. angustifolia</i>				X	
Phyllanthaceae	<i>Phyllanthus calycinus</i>			X	X	
	<i>Paranthera huegellii</i>				X	
Pittosporaceae	<i>Billardiera heterophylla</i>			X		
Oxalidaceae	<i>Oxalis glabra</i>		*			X
Poaceae	<i>Aira caryophylla</i>		*			X
	<i>Anthoxanthum odoratum</i>		*			X
	<i>Bria maxima</i>		*	X	X	
	<i>Bria minor</i>		*	X	X	
	<i>Festuca lewisii</i>			X	X	
Polygalaceae	<i>Comesperma confertum</i>			X		
Proteaceae	<i>Hakea amplexicaulis</i>				X	X
	<i>Hakea ruscifolia</i>				X	X
	<i>Hakea illicocarpa</i>					
	<i>Hakea ceratophylla</i>			X		
	<i>Synaphea gracillima</i>				X	
Ranunculaceae	<i>Clematis pubescens</i>				X	X
Rubiaceae	<i>Opercularia hispidula</i>			X	X	
Rutaceae	<i>Phlotoeca spicata</i>			X	X	
Stantaliaceae	<i>Leptomera cunninghamii</i>					X
	<i>Leptomera squarulosa</i>					X
Stylidiaceae	<i>Stylidium omaenum</i>				X	
	<i>Stylidium irenae</i>	P4		X	X	
	<i>Stylidium rhynchocarpum</i>				X	
	<i>Stylidium calcicatum</i>				X	
Thymelaeaceae	<i>Pimelea hispida</i>			X	X	
	<i>Pimelea rosea</i>				X	
Verbenaceae	<i>Verberna sp.</i>		*			X
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>				X	
	<i>Xanthorrhoea preissii</i>			X	X	
Zamiaceae	<i>Macrozamia sieberi</i>				X	X

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Appendix G: Significant Flora Likelihood of Occurrence Assessment

SHIRE OF AUGUSTA MARGARET RIVER
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Flora likelihood of occurrence assessment guidelines

Flora likelihood of occurrence	Guidelines
Recorded	Species was recorded in the current survey or has previously (in last 15 years) been recorded within the survey area.
Likely (High)	Species previously recorded within the study area and large areas of suitable habitat occur in the survey area.
Possible (Moderate)	Species previously recorded within the study area and areas of suitable habitat occur/may occur in the survey area.
Unlikely (low)	Species previously recorded within the study area, but suitable habitat does not occur in the survey area.
Highly unlikely (very low)	Species previously recorded within the study area, but suitable habitat does not occur in the survey area and/or the survey area is outside the natural distribution of the species or suitable search effort during the preferred season did not record the species. Or not recorded in study area. Previous record location details may be erroneous.
Unknown	Insufficient information to assess likelihood

Source information - desktop searches

- ¹ PMST – DEE Protected Matters Search Tool (PMST) to identify flora listed under the EPBC Act potentially occurring within the study area
- ² TPFL and WAHERB – records of threatened flora from TPFL and WAHERB database searches within the study area
- ³ NM – DBCA *NatureMap* (accessed May 2021)

Species Name	Status (WA)	Status (EPBC)	Description and Habitat	Pre-survey Likelihood of occurrence	Post-survey likelihood of occurrence
<i>Adenanthos detmoldii</i> ^{2,3}	P4		Erect shrub to 5ft. Flowers yellow-green. Sand, winter wet.	Unlikely	Unlikely
<i>Aotus carinata</i> ^{2,3}	P4		Erect, diffuse, lignotuberous shrub, 0.9-4 m high. Fl. yellow-orange, Jan or Apr or Jun or Aug to Dec. Grey or black peaty sand, wet. Swamps, roadsides.	Unlikely	Unlikely
<i>Banksia meisneri</i> subsp. <i>ascendens</i> ^{2,3}	P4	-	Shrub, 0.5-2 m high, leaves ascending, 8-15 mm long. Fl. yellow-orange-brown, Apr to Sep. White or grey sand. Swampy flats.	Possible	Highly Unlikely
<i>Banksia nivea</i> subsp. <i>uliginosa</i> ²	T	EN	Red sandy shallow loams over ironstone. Scott Coastal Plain ironstones.	Unlikely	Highly Unlikely

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Species Name	Status (WA)	Status (EPBC)	Description and Habitat	Pre-survey Likelihood of occurrence	Post-survey likelihood of occurrence
<i>Banksia sessilis</i> var. <i>cordata</i> ²	P4		Non-lignotuberous shrub, to 2.5 m high. Fl. cream-yellow, Jul to Oct. White/grey sand. Coastal limestone.	Unlikely	Highly Unlikely
<i>Banksia squarrosa</i> subsp. <i>argillacea</i> ¹	T	V	Erect, open, non-lignotuberous shrub, 1.2-4 m high. Fl. yellow, Jun to Nov. White/grey sand, gravelly clay or loam. Winter-wet flats, clay flats.	Highly Unlikely	Highly Unlikely
<i>Boronia anceps</i> ^{2,3}	P3		Perennial, herb, 0.3-0.6 m high, lacking lignotuber, stem flattened and ancipitous when young. Fl. pink/pink-purple, Sep to Dec or Jan. White sand, gravelly laterite. Seasonally swampy heaths.	Unlikely	Highly Unlikely
<i>Caladenia abbreviata</i> ^{2,3}	P3		Tuberous, perennial, herb, 0.2-0.35 m high. Fl. yellow & brown, Nov to Dec. Sand. Sand dunes	Possible	Unlikely
<i>Caladenia excelsa</i> ^{2,3}	T	EN	Tuberous, perennial, herb, 0.45-0.9 m high. Fl. green & white & red, Sep to Oct. White, grey or brown sand, sandy loam.	Likely	Possible
<i>Caladenia hoffmanii</i> ¹	T	E	Tuberous, perennial, herb, 0.13-0.3 m high. Fl. green & yellow & red, Aug to Oct. Clay, loam, laterite, granite. Rocky outcrops and hillsides, ridges, swamps and gullies.	Highly Unlikely	Highly Unlikely
<i>Caladenia lodgeana</i> ^{2,3}	T	CE	Tuberous, perennial, herb. Fl. white, Oct. Black loam. Seasonally wet areas on edge of granite outcrops.	Likely	Possible
<i>Caladenia pholcoidea</i> subsp. <i>augustensis</i> ^{2,3}	P1		Tuberous, perennial, herb, 0.15-0.45 m high. Fl. cream-white, Oct to Nov. Sandy clay. Winter-wet flat in summer burnt areas.	Possible	Unlikely
<i>Calothamnus lateralis</i> var. <i>crassus</i> ^{2,3}	P3		Peaty sand in swamp.	Unlikely	Highly Unlikely
<i>Dampiera heteroptera</i> ^{2,3}	P3		Erect to semi-prostrate perennial, herb or shrub, 0.3-0.6 m high. Fl. blue, Sep to Oct. Sandy soils. Swampy areas.	Likely	Unlikely
<i>Drakaea micrantha</i> ²	T	V	Small-flowered hammer orchid with prominently veined leaf. White grey sand in woodlands and forests.	Likely	Unlikely
<i>Franklandia triaristata</i> ^{2,3}	P4		Erect, lignotuberous shrub, 0.2-1 m high. Fl. white-cream-yellow/brown-purple, Aug to Oct. White or grey sand.	Possible	Highly Unlikely
<i>Galium leptogonium</i> ²	P3		Decumbent annual herb to 0.3 m. Grey sand.	Possible	Unlikely
<i>Gastrobium formosum</i> ^{2,3}	P3		Small, trailing shrub, to 1 m high. Fl. red, Nov. Clay loam. Along river banks or in swamps.	Unlikely	Highly Unlikely
<i>Gastrobium papilo</i> ¹	T	E	Tangled, clumped shrub, to 1.5 m high. Fl. cream-red, Oct to Dec. Sandy clay over ironstone and laterite. Flat plains.	Highly Unlikely	Highly Unlikely
<i>Leptomeria dielsiana</i> ¹		X	Shrub, to 0.5 m high, known only from type collection of J. Drummond 228, locality & description unknown. Presumed extinct.	Highly Unlikely	Highly Unlikely

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Species Name	Status (WA)	Status (EPBC)	Description and Habitat	Pre-survey Likelihood of occurrence	Post-survey likelihood of occurrence
<i>Grevillea brachystylis</i> subsp. <i>australis</i> ^{2,3}	T	V	Prostrate or erect, non-lignotuberous shrub, 0.1-2 m high. Fl. red, Sep to Dec or Jan. Sand, sandy clay. Winter wet heath.	Unlikely	Highly Unlikely
<i>Hemiandra</i> sp. Windy Harbour ^{2,3}	P3		Branched upright shrub to 60cm. Flowers mauve, reddish sepals. Yellow-brown sand over granite.	Possible	Unlikely
<i>Kennedia lateritia</i> ^{2,3}	T	EN	Climbing shrub, round glossy leaflets in groups of three. Flowers yellow orange. Dark brown loam soils to grey sand over limestone.	Possible	Unlikely
<i>Lambertia echinata</i> subsp. <i>occidentalis</i> ¹	T	E	Prickly, much-branched, non-lignotuberous shrub, to 3 m high. Fl. yellow, Feb or Apr or Dec. White sandy soils over laterite, orange/brown-red clay over ironstone. Flats to foothills, winter-wet sites.	Highly Unlikely	Highly Unlikely
<i>Calectasia cyanea</i> ¹	T	CE	Rhizomatous, clump forming, woody perennial, herb, 0.1-0.6 m high, to 0.3 m wide. Fl. blue/purple, Jun to Oct. White, grey or yellow sand, gravel.	Highly Unlikely	Highly Unlikely
<i>Schoenus</i> sp. Grassy ^{2,3}	P2		Rhizomatous, perennial, grass-like or herb (sedge), to 0.7 m high. Fl. yellow. Black silt. Swamps.	Possible	Unlikely
<i>Stylidium ireneae</i> ^{2,3}	P4		Lax perennial, herb, (0.06-)0.1-0.28 m high, Leaves oblanceolate, 0.4-2 cm long, 1-3 (-5) mm wide, apex subacute to acuminate, margin entire, glandular. Scape glandular. Inflorescence racemose. Fl. pink, Oct to Dec. Sandy loam. Valleys near creek lines, woodland, often with <i>Agonis</i>	Likely	Recorded
<i>Verticordia plumosa</i> var. <i>ananeotes</i> ¹	T	E	Erect, sparsely branched shrub, 0.3-0.5 m high. Fl. pink-purple/white, Nov to Dec. Sandy loam. Seasonally inundated plains.	Highly Unlikely	Highly Unlikely
<i>Verticordia plumosa</i> var. <i>vassensis</i> ¹	T	E	Shrub, 0.3-1 m high. Fl. pink, Sep to Dec or Jan to Feb. White/grey sand. Winter-wet flats.	Unlikely	Highly Unlikely

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Appendix H: Site Photos and Relevé Data

SHIRE OF AUGUSTA MARGARET RIVER
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Releve			
Site	1	Easting	330347
Date	26/10/2021	Northing	6201205
Recorder	MB	Landcape Position	Upland
Soil	Grey Brown Sandy Clay	Condition	Very Good
Fire Age	>5	Habitat	Woodland
Community	Woodland of <i>Corymbia calophylla</i> over (low) open woodland of <i>Agonis flexuosa</i> over shrubland of <i>Xanthorrhoea preissii</i> and <i>Acacia pulchella</i> over sedgeland of <i>Lepidosperma pubisquameum</i> and <i>Cyathochaeta avenacea</i>		
Vegetation unit	CcAf		
Scientific Name	Introduced	Height (m)	Cover (%)
<i>Corymbia calophylla</i>		15	18
<i>Agonis flexuosa</i>		4	10
<i>Eucalyptus marginata</i>		10	1
<i>Xanthorrhoea preissii</i>		1.8	12
<i>Acacia pulchella</i>		1.2	5
<i>Melaleuca incana</i>		1.5	4
<i>Acacia myrtifolia</i>		1.5	2
<i>Hibbertia amplexicaulis</i>		0.4	1
<i>Tremandra diffusa</i>		0.2	1
<i>Cyathochaeta avenacea</i>		0.5	2
<i>Lepidosperma pubisquameum</i>		0.5	8
<i>Styliidium irenae (P4)</i>		0.2	1
<i>Scaevola calliptera</i>			<1
<i>Burchardia umbellata</i>			<1
<i>Paterersonia occidentalis</i>			<1
<i>Thomasia pauciflora</i>			<1
<i>Phyllanthus calycinus</i>			<1
<i>Briza maxima</i>	*		<1
<i>Dampiera alata</i>			<1
<i>Burchardia congesta</i>			<1
<i>Mesomelaena tetragona</i>		0.6	2
<i>Philotheca spicata</i>			<1
<i>Kennedia carinata</i>			<1
<i>Billardiera heterophylla</i>			<1
<i>Opecularia hispidula</i>			<1
<i>Hakea ceratophylla</i>			<1
<i>Tetrarrhena laevis</i>			<1
<i>Comesperma confertum</i>			<1
<i>Cassylia sp</i>			<1
<i>Caesia micrantha</i>			<1
<i>Acacia divergens</i>			<1
<i>Ornduffia parnassifolia</i>			<1
<i>Briza minor</i>	*		<1
<i>Thysanotus dichotomus</i>			<1
<i>Pimelea hispida</i>			<1
<i>Viminaria juncea</i>			<1
<i>Hovea elliptica</i>			<1



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SHIRE OF AUGUSTA MARGARET RIVER
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Relieve			
Site	2	Easting	330031
Date	26/10/2021	Northing	6201437
Recorder	MB	Landscape Position	Upland
Soil	Brown orange gravelly loam	Condition	Very Good- Excellent
Fire Age	>3	Habitat	Forest
Community	Open forest of <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> over shrubland of <i>Bossiaea disticha</i> and <i>Acacia pulchella</i> over shrubland of <i>Hibbertia hypericoides</i>		
Vegetation unit	CcEm		
Scientific Name	Introduced	Height (m)	Cover (%)
<i>Corymbia calophylla</i>		20	20
<i>Eucalyptus marginata</i>		20	40
<i>Bossiaea disticha</i>		1.3	60
<i>Xanthorrhoea preissii</i>		1.5	2
<i>Pteridium esculentum</i>		1	1
<i>Logania vaginalis</i>		1.8	2
<i>Hibbertia amplexicaulis</i>			<1
<i>Phllothea spicata</i>			<1
<i>Hibbertia hypericoides</i>		0.4	5
<i>Macrozamia riedlei</i>		1.5	1
<i>Havea elliptica</i>			<1
<i>Xanthosia candida</i>			<1
<i>Acacia pulchella</i>			<1
<i>Pimelea rosea</i>			<1
<i>Orianthera serpyllifolia</i> subsp. <i>angustifolia</i>			<1
<i>Tetrarrhena laevis</i>			<1
<i>Acacia myrtifolia</i>			<1
<i>Hakea amplexicaulis</i>			<1
<i>Clematis pubescens</i>			<1
<i>Leucopogon verticillatus</i>			<1
<i>Phyllanthus calycinus</i>			<1
<i>Sowerbaea laxiflora</i>			<1
<i>Leucopogon capitellatus</i>			<1
<i>Xanthorrhoea gracilis</i>			<1
<i>Stylidium calcaratum</i>			<1
<i>Mireletia octandra</i>			<1
<i>Thysanotus dichotomus</i>			<1
<i>Lagenophora huegelii</i>			<1
<i>Thysanotus multiflorus</i>			<1
<i>Acacia alata</i>			<1
<i>Acacia longifolia</i>			<1
<i>Hakea lisacarpa</i>			<1
<i>Acacia divergens</i>			<1
<i>Caladenia</i> sp.			<1
<i>Agrostocrinum hirsutum</i>			<1
<i>Platysace tenuissima</i>			<1
<i>Briza maxima</i>	*		<1
<i>Stylidium amoenum</i>			<1
<i>Synaphea gracillima</i>			<1
<i>Hakea ruscifolia</i>			<1
<i>Leptomeria squarulosa</i>			<1
<i>Stylidium rhynchocarpum</i>			<1
<i>Paranthera huegelii</i>			<1
<i>Pithocarpa ramosa</i>			<1
<i>Senecio diaschides</i>			<1
<i>Patersania umbrosa</i> var. <i>xanthina</i>			<1
<i>Briza minor</i>	*		<1
<i>Thysanotus dichotomus</i>			<1
<i>Caesia micrantha</i>			<1
<i>Leucopogon australis</i>			<1
<i>Lomandra integra</i>			<1



Flora and Vegetation Survey of Augusta Reserve No. 20761

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

Stream Environment and Water Pty Ltd

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

List of Payments for the Month of November 22

Chq/EFT	Date	Name	Description	Amount
42496	30/11/2022	Petty Cash - Margaret River	Petty Cash	\$ 268.55
Total Cheques for Nov 22				\$ 268.55

EFT	Date	Name	Description	Amount
EFT90035	02/11/2022	AMPAC Debt Recovery (WA) Pty Ltd	Debt Recovery	\$ 77.27
EFT90036	02/11/2022	Airvoice Supa Pty Ltd T/as Margaret River Liquor Merchants	Beverage Stock for resale	\$ 928.00
EFT90037	02/11/2022	Aloha Painting (Naumowicz Investments Pty Ltd T/as)	Painting	\$ 3,322.00
EFT90038	02/11/2022	Alpine Laundry Pty Ltd	Cleaning	\$ 76.83
EFT90039	02/11/2022	Aqua Allsorts (TTF The Terara Trust T/as)	Plumbing Services	\$ 9,438.06
EFT90040	02/11/2022	Aquatic Services WA Pty Ltd	Aquatic Maintenance	\$ 1,996.50
EFT90041	02/11/2022	Arbor Guy Certified Tree Specialist	Tree Maintenance	\$ 25,289.55
EFT90042	02/11/2022	BSA Maintain (Burke Air Pty Ltd)	Building Maintenance	\$ 485.38
EFT90043	02/11/2022	Benara Nurseries	Horticultural Supplies	\$ 740.85
EFT90044	02/11/2022	Bob Waddell & Associates Pty Ltd	Rates Services	\$ 1,278.75
EFT90045	02/11/2022	Bronwyn Kay Edwards	Seniors Rebate Refund	\$ 102.93
EFT90046	02/11/2022	Brooks Hire Service Pty Ltd	Equipment Hire	\$ 4,835.16
EFT90047	02/11/2022	Browns Foods Operations Pty Ltd	Milk Supply	\$ 35.50
EFT90048	02/11/2022	Bunbury Bearings	Vehicle Maintenance	\$ 35.75
EFT90049	02/11/2022	Bunnings	Hardware Supplies	\$ 676.48
EFT90050	02/11/2022	Business and Safety Printing	Printing	\$ 1,210.00
EFT90051	02/11/2022	CB Traffic Solutions Pty Ltd	Traffic Management	\$ 66,652.19
EFT90052	02/11/2022	Christian Fletcher Gallery	Gallery	\$ 270.00
EFT90053	02/11/2022	Chubb Australia Ltd	Fire and Security Services	\$ 5,271.11
EFT90054	02/11/2022	Corsign WA Pty Ltd	Signs	\$ 424.60
EFT90055	02/11/2022	Cr Brian Daniel	Councillor Allowances	\$ 2,068.17
EFT90056	02/11/2022	Cr David Kingsley Binks	Councillor Allowance	\$ 2,133.04
EFT90057	02/11/2022	Cr Ian Earl	Councillor Allowance	\$ 2,068.17
EFT90058	02/11/2022	Cr Julia Meldrum	Councillor Allowance	\$ 3,421.09
EFT90059	02/11/2022	Cr Kylie Kennaugh	Councillor Allowances	\$ 2,097.34
EFT90060	02/11/2022	Cr Maria Paulina Cristoffanini	Councillor Allowances	\$ 8,016.09
EFT90061	02/11/2022	Cr Tracey Muir	Councillor Allowance	\$ 2,068.17
EFT90062	02/11/2022	Bidfood	Café Stock	\$ 392.02
EFT90063	02/11/2022	Data#3 Limited	Software Licence	\$ 26,058.36
EFT90064	02/11/2022	David Gray & Co Pty Ltd	Rubbish Bins	\$ 21.78
EFT90065	02/11/2022	Dell Computer Pty Ltd	Computer Equipment	\$ 13,894.83
EFT90066	02/11/2022	Department Of Premier & Cabinet	Advertising	\$ 753.60
EFT90067	02/11/2022	Dept of Local Government, Sport and Cultural Industries	Grant Return of Funds	\$ 3,470.50
EFT90068	02/11/2022	Diesel & Hydraulic Services South West	Vehicle Maintenance	\$ 6,415.69
EFT90069	02/11/2022	Down South Mini Earthmovers	Earthmoving	\$ 396.00
EFT90070	02/11/2022	Down South Wholesale	Wholesale Supplies	\$ 78.62
EFT90071	02/11/2022	E & M Roshier Pty Ltd	Farming Equipment	\$ 3,736.68
EFT90072	02/11/2022	Element Advisory Pty Ltd (Element WA)	Character Survey	\$ 1,925.00
EFT90073	02/11/2022	Eve Hatley	Umpire Fees	\$ 210.00
EFT90074	02/11/2022	Everyday Potted Plants	Horticultural Supplies	\$ 2,354.44
EFT90075	02/11/2022	Forch Australia Pty Ltd	Consumables	\$ 861.19
EFT90076	02/11/2022	Fritz Peter Froehlich	Crossover Subsidy	\$ 305.00
EFT90077	02/11/2022	GHD	Traffic Analysis	\$ 26,245.45
EFT90078	02/11/2022	Gozzi's Gas & Plumbing Service	Plumbing Services	\$ 513.94
EFT90079	02/11/2022	Ground Creative (atf J Davies Family Trust)	ICT Services	\$ 99.00
EFT90080	02/11/2022	Gus Whitehead	Umpire Fees	\$ 200.00
EFT90081	02/11/2022	HRCWA - Height Safety Recertification Company	Height Safety Inspections	\$ 19,453.50
EFT90082	02/11/2022	Hadley Earthworks	Earthworks	\$ 2,090.00
EFT90083	02/11/2022	Hannah Flack	Crossover Subsidy	\$ 305.00
EFT90084	02/11/2022	Hayley Birch-Bruce	Waste Management Subsidy	\$ 150.00
EFT90085	02/11/2022	Heather Brown	Reimbursement	\$ 87.00
EFT90086	02/11/2022	Hip Pocket Work Wear	Protective Clothing	\$ 76.90
EFT90087	02/11/2022	International Mowers Pty Ltd	Plant Repairs	\$ 988.90
EFT90088	02/11/2022	Kingston's Bakery Cafe (Skvv Family Trust T/as)	Refreshments	\$ 67.00
EFT90089	02/11/2022	Landmark Products Ltd	Open space Construction	\$ 4,345.00
EFT90090	02/11/2022	Leeuwin Civil Pty Ltd	Road Maintenance	\$ 16,883.63
EFT90091	02/11/2022	Lightning Ridge Electrical Contracting	Electrical Contractor	\$ 3,567.54
EFT90092	02/11/2022	Living Springs	Bottled Water	\$ 172.50
EFT90093	02/11/2022	Lower Blackwood Landcare LCDC	Community Organisation Operating Grant	\$ 49,500.00
EFT90094	02/11/2022	MJB Industries Pty Ltd	Road Maintenance	\$ 8,354.04
EFT90095	02/11/2022	Margaret River Chamber Of Commerce & Industry	Sustainable Economy Grant	\$ 8,800.00
EFT90096	02/11/2022	Margaret River Irrigation (Summerworld Pty Ltd T/as)	Irrigation Supplies	\$ 932.00
EFT90097	02/11/2022	Margaret River Montessori School	Donation	\$ 100.00
EFT90098	02/11/2022	Margaret River Office Products Depot	Office Supplies	\$ 51.06
EFT90099	02/11/2022	Margaret River Print	Printing	\$ 237.00
EFT90100	02/11/2022	Margaret River Retravision (Dorsett Retail Pty Ltd)	Electrical Goods	\$ 386.00
EFT90101	02/11/2022	Margaret River State Emergency Services Unit (Inc) - SES	Catering	\$ 402.50
EFT90102	02/11/2022	Margaret River Steel Products	Steel Fabrication	\$ 1,421.75
EFT90103	02/11/2022	Margaret River Timber and Hardware	Hardware Supplies	\$ 15.50
EFT90104	02/11/2022	Marion Elizabeth Fontana	Pensioner Rebate Refund	\$ 796.50
EFT90105	02/11/2022	Matrix Tilt Tray & Towing Service	Vehicle Recovery	\$ 462.00
EFT90106	02/11/2022	Meisha Jay Bull	Waste Subsidy	\$ 100.00
EFT90107	02/11/2022	Metal Artwork Creations	Staff Identification	\$ 55.66
EFT90108	02/11/2022	Mikmarns Landscapes (M.T Buckley & J Buckley T/as)	Landscaping Works	\$ 1,672.00
EFT90109	02/11/2022	NRM Regions Australia	Training	\$ 1,098.90

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

List of Payments for the Month of November 22

EFT90110	02/11/2022	Nicole Siemon and Associates Pty Ltd	Landcare Services	\$	1,162.70
EFT90111	02/11/2022	Plan B Wines Pty Ltd	Beverage Stock for resale	\$	1,489.95
EFT90112	02/11/2022	Playmaster Pty Ltd	Park Materials	\$	1,881.00
EFT90113	02/11/2022	Procure Locksmiths & Commercial Maintenance	Locksmiths	\$	1,053.00
EFT90114	02/11/2022	Raylene Joyce Field	Umpire Fees	\$	507.50
EFT90115	02/11/2022	Repco (GPC Asia Pacific Pty Ltd)	Parts and Supplies	\$	890.01
EFT90116	02/11/2022	River Fresh IGA	Grocery Supplies	\$	341.46
EFT90117	02/11/2022	River Hotel Cellars	Refreshments	\$	179.93
EFT90118	02/11/2022	Rockmaster Hydraulics (8588 Bussell Pty Ltd T/as)	Equipment Repairs	\$	42.33
EFT90119	02/11/2022	Rosa Brook Community Association	Venue Hire	\$	25.00
EFT90120	02/11/2022	Sandgroper Contracting	Waste Management	\$	3,547.50
EFT90121	02/11/2022	Sarah Maria Rosenbach	Refund	\$	150.00
EFT90122	02/11/2022	Sasha Hughes	Umpire Fees	\$	100.00
EFT90123	02/11/2022	Smartsalary (Smartsalary Pty Limited)	Salary Sacrifices	\$	4,401.54
EFT90124	02/11/2022	Sophie Atkins	Reimbursement	\$	54.40
EFT90125	02/11/2022	South West Machinery (Jaguar Holdings Pty Ltd t/as)	Plant Maintenance	\$	949.00
EFT90126	02/11/2022	Southern Workwear & Embroidery	Protective Clothing	\$	502.19
EFT90127	02/11/2022	Strata Green (Greenway Enterprises)	Horticultural Supplies	\$	385.87
EFT90128	02/11/2022	Synergy	Usage and Service Charges	\$	14,395.69
EFT90129	02/11/2022	Telstra	Usage and Service Charges	\$	697.51
EFT90130	02/11/2022	Toll (ipcc Pty Ltd T/as)	Freight	\$	179.89
EFT90131	02/11/2022	Trade Hire	Equipment Hire	\$	412.40
EFT90132	02/11/2022	Truck Centre (wa) Pty Ltd	Vehicle Repairs	\$	147.65
EFT90133	02/11/2022	Tyrepower Limited	Vehicle Maintenance	\$	261.71
EFT90134	02/11/2022	Unified Solutions South West Pty Ltd	Security Services	\$	4,774.14
EFT90135	02/11/2022	Water Corporation. Osborne Park	Usage and Service Charges	\$	17,960.61
EFT90136	02/11/2022	Westrac Pty Ltd	Plant Maintenance	\$	89.41
EFT90137	09/11/2022	Advanced Driveway Sealing ATF Advanced Sealing Trust	Graffiti Removal	\$	748.00
EFT90138	09/11/2022	Aqua Allsorts (TTF The Terara Trust T/as)	Plumbing Services	\$	505.38
EFT90139	09/11/2022	Arbor Guy Certified Tree Specialist	Tree Maintenance	\$	32,996.43
EFT90140	09/11/2022	Arts Margaret River	Community Development & Events Grant	\$	12,885.00
EFT90141	09/11/2022	Augusta Art Club Inc	Easy Grant	\$	1,000.00
EFT90142	09/11/2022	Augusta Community Development Association Inc	Community Organisation Operating Grant	\$	5,000.00
EFT90143	09/11/2022	Augusta Hardware	Hardware Supplies	\$	947.23
EFT90144	09/11/2022	AusQ Training	Training	\$	1,532.00
EFT90145	09/11/2022	Australia Post	Postage	\$	3,909.55
EFT90146	09/11/2022	Australian Taxation Office - PAYG	PAYG Tax	\$	132,225.00
EFT90147	09/11/2022	B & B Street Sweeping Pty Ltd	Street Sweeping	\$	463.65
EFT90148	09/11/2022	BCITF	BCITF Return	\$	4,837.89
EFT90149	09/11/2022	BCP Contractors Pty Ltd	Civil Construction	\$	8,353.13
EFT90150	09/11/2022	BHE Welding & Fabrication	Welding and Fabrication	\$	194.45
EFT90151	09/11/2022	BSA Maintain (Burke Air Pty Ltd)	Building Maintenance	\$	1,343.76
EFT90152	09/11/2022	Bibliotheca Australia Pty Ltd.	Library Stock	\$	1,004.16
EFT90153	09/11/2022	Bob Waddell & Associates Pty Ltd	Rates Services	\$	3,011.25
EFT90154	09/11/2022	BrightMark Group Pty Ltd	Cleaning	\$	93,978.54
EFT90155	09/11/2022	Brownes Foods Operations Pty Ltd	Milk Supply	\$	82.86
EFT90156	09/11/2022	Bruno Michel	Audio Engineer	\$	1,100.00
EFT90157	09/11/2022	Bullivants PTY LTD	Safety Equipment	\$	692.08
EFT90158	09/11/2022	Bunnings	Hardware Supplies	\$	638.80
EFT90159	09/11/2022	CB Traffic Solutions Pty Ltd	Traffic Management	\$	4,121.69
EFT90160	09/11/2022	CMW Geosciences Pty Ltd	Consultancy	\$	8,805.50
EFT90161	09/11/2022	CSJV Cowaramup	Refund of Bonds	\$	25,316.00
EFT90162	09/11/2022	Cleanaway Pty Ltd	Waste Management	\$	5,905.15
EFT90163	09/11/2022	College Of Professional Development	Training	\$	1,500.00
EFT90164	09/11/2022	Corsign WA Pty Ltd	Signs	\$	138.60
EFT90165	09/11/2022	Cowaramup Agencies	Repairs and Maintenance	\$	979.00
EFT90166	09/11/2022	Cr Tracey Muir	Councillor Expense Reimbursement	\$	73.88
EFT90167	09/11/2022	Department Of Mines, Industry Regulation And Safety	Building Commission Return	\$	9,878.96
EFT90168	09/11/2022	Department Of Transport - Jetty & Boats	Jetty Licence Fee	\$	43.70
EFT90169	09/11/2022	DirectComms Pty Ltd	Library notifications service	\$	252.89
EFT90170	09/11/2022	Down South Wholesale	Wholesale Supplies	\$	207.11
EFT90171	09/11/2022	Emerge Environmental Services Pty Ltd	Environmental Monitoring	\$	3,216.18
EFT90172	09/11/2022	Enviro Infrastructure Pty Ltd	Building Contractor	\$	1,320.00
EFT90173	09/11/2022	Fulton Hogan Industries Pty Ltd	Road Maintenance	\$	7,040.00
EFT90174	09/11/2022	Geographe Excavation And Underground Power	Water system instalment	\$	8,700.00
EFT90175	09/11/2022	Geographe Petroleum	Fuel	\$	41,930.25
EFT90176	09/11/2022	Gozzi's Gas & Plumbing Service	Plumbing Services	\$	2,866.22
EFT90177	09/11/2022	Grace Records Management (Australia) Pty Ltd	Document Disposal	\$	330.00
EFT90178	09/11/2022	Gresley Abas Pty Ltd	Equipment Maintenance	\$	36,661.90
EFT90179	09/11/2022	Hanson Construction Materials Pty Ltd	Construction Materials	\$	228.80
EFT90180	09/11/2022	Happiness Co Pty Ltd	Community Workshop	\$	825.00
EFT90181	09/11/2022	Hart Sport	Sports Equipment	\$	207.00
EFT90182	09/11/2022	Hire-A-Fence ATF Wittwer Family Trust	Fence Hire	\$	462.00
EFT90183	09/11/2022	IT Vision Australia Pty Ltd	Software Support	\$	9,685.50
EFT90184	09/11/2022	James Bennett Pty Ltd	Library Stock	\$	1,977.17
EFT90185	09/11/2022	Julia Meldrum	Councillor Expense Reimbursement	\$	300.95
EFT90186	09/11/2022	Justin James Madaffari	Refund	\$	78.00
EFT90187	09/11/2022	Katie Taylor	Reimbursement	\$	408.00
EFT90188	09/11/2022	Kirriily Michelle Lewis	Waste Management Subsidy	\$	100.00
EFT90189	09/11/2022	Landgate	Land Schedules	\$	387.42
EFT90190	09/11/2022	Leeuwinn Civil Pty Ltd	Road Maintenance	\$	80,287.48
EFT90191	09/11/2022	Lightning Ridge Electrical Contracting	Electrical Contractor	\$	797.76
EFT90192	09/11/2022	Living Springs	Bottled Water	\$	46.00
EFT90193	09/11/2022	Margaret Ann Sharp	Excess Rates	\$	62.78

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

List of Payments for the Month of November 22

EFT90194	09/11/2022	Margaret River Auto Electrics	Vehicle Maintenance	\$	255.00
EFT90195	09/11/2022	Margaret River Bakery	Catering	\$	420.20
EFT90196	09/11/2022	Margaret River Chamber Of Commerce & Industry	Membership	\$	330.00
EFT90197	09/11/2022	Margaret River Concert Band	Community Development & Events Grant	\$	2,000.00
EFT90198	09/11/2022	Margaret River Glass	Repairs and Maintenance	\$	350.00
EFT90199	09/11/2022	Margaret River Law	Legal Fees	\$	605.00
EFT90200	09/11/2022	Margaret River Men's Shed Inc.	Various Crafts	\$	3,756.50
EFT90201	09/11/2022	Margaret River Naturals Pty Ltd	Landcare Services	\$	5,119.88
EFT90202	09/11/2022	Margaret River Office Products Depot	Stationery & Office Supplies	\$	258.21
EFT90203	09/11/2022	Margaret River Pestman	Pest Control	\$	195.00
EFT90204	09/11/2022	Margaret River Timber and Hardware	Hardware Supplies	\$	224.90
EFT90205	09/11/2022	Margritz Cleaning	Cleaning	\$	2,334.75
EFT90206	09/11/2022	Mcleods Barristers & Solicitors	Legal Fees	\$	3,006.85
EFT90207	09/11/2022	McMullen Nolan Group Pty Ltd (MNG)	Surveying Services	\$	1,529.00
EFT90208	09/11/2022	Michael Phillip Brennen	Excess Rates	\$	443.68
EFT90209	09/11/2022	Mikmarns Landscapes (M.T Buckley & J Buckley T/as)	Landscaping Works	\$	16,511.00
EFT90210	09/11/2022	Moray & Agnew	Consultancy	\$	1,246.08
EFT90211	09/11/2022	Motorpass (Wex Australia Pty Ltd)	Fuel	\$	4,183.51
EFT90212	09/11/2022	Naturaliste Hygiene Services	Hygiene Services	\$	1,934.07
EFT90213	09/11/2022	Neve Braithwaite	Umpire Fees	\$	40.00
EFT90214	09/11/2022	Newbook Pty Ltd	Reservation Software	\$	398.20
EFT90215	09/11/2022	Nutrien Ag Solutions (nutrien Ag Solutions Ltd T/as)	Agricultural Supplies	\$	23,453.38
EFT90216	09/11/2022	PVP Signs	Signs	\$	271.15
EFT90217	09/11/2022	PathWest Laboratory Medicine WA	Recruitment	\$	105.00
EFT90218	09/11/2022	Plant Assessor (Online Safety Systems Pty Ltd)	Plant Maintenance	\$	1,100.00
EFT90219	09/11/2022	Prestige Panel Repairs And Spray Painting	Vehicle repairs	\$	385.00
EFT90220	09/11/2022	Procure Locksmiths & Commercial Maintenance	Locksmiths	\$	1,146.00
EFT90221	09/11/2022	RAC BusinessWise	Insurance	\$	2,114.00
EFT90222	09/11/2022	Redgate Developments Pty Ltd	Maintenance Bond	\$	8,742.13
EFT90223	09/11/2022	Redgate Signage (Jackson Marti Brown)	Road Maintenance	\$	660.00
EFT90224	09/11/2022	Repco (GPC Asia Pacific Pty Ltd)	Parts and Supplies	\$	356.40
EFT90225	09/11/2022	River Fresh IGA	Grocery Supplies	\$	102.56
EFT90226	09/11/2022	Seton Australia	Equipment	\$	241.14
EFT90227	09/11/2022	Small Engine Worx	Equipment Maintenance	\$	64.00
EFT90228	09/11/2022	Southern Workwear & Embroidery	Protective Clothing	\$	1,077.32
EFT90229	09/11/2022	Spraymow Services	Grounds Maintenance	\$	5,481.95
EFT90230	09/11/2022	Susan Elton	Reimbursement	\$	280.00
EFT90231	09/11/2022	Synergy	Usage and Service Charges	\$	35,575.67
EFT90232	09/11/2022	Tate Construction	Building Contractor	\$	2,909.02
EFT90233	09/11/2022	The System Company	WSH Act Audit	\$	2,612.50
EFT90234	09/11/2022	Augusta Newsagency	Papers and Magazines	\$	72.00
EFT90235	09/11/2022	Theo Mathews Architect Pty Ltd	Architecture	\$	4,510.00
EFT90236	09/11/2022	Timber Insight Pty Ltd	Bridge Maintenance Warner Glen Rd	\$	49,649.49
EFT90237	09/11/2022	Total Green Recycling Pty Ltd	Waste management	\$	2,261.19
EFT90238	09/11/2022	Trade Hire	Equipment Hire	\$	703.79
EFT90239	09/11/2022	Undalup Association Inc	Event Support	\$	2,200.00
EFT90240	09/11/2022	Universal Pictures International Australasia Pty Limited	Film Distributor	\$	1,094.75
EFT90241	09/11/2022	VIP Home Services (Shane Anthony Hermon)	Landscape Maintenance	\$	1,113.58
EFT90242	09/11/2022	Valvoline (Australia) Pty Ltd	Plant Maintenance	\$	3,101.02
EFT90243	09/11/2022	Water Corporation. Osborne Park	Usage and Service Charges	\$	3,334.35
EFT90244	09/11/2022	Welcome Site (Zanphire Pty Ltd)	Portable Ablution Hire	\$	2,046.00
EFT90245	09/11/2022	Zipform Pty Ltd	Printing	\$	1,949.39
EFT90246	15/11/2022	Woolworths Group Limited	Grocery Supplies	\$	1,112.47
EFT90247	15/11/2022	BP Australia Pty Ltd	Fuel	\$	3,289.63
EFT90248	16/11/2022	Alix Healey-Diaz	Crossover Subsidy	\$	305.00
EFT90249	16/11/2022	Aloha Painting (Naumowicz Investments Pty Ltd T/as)	Painting	\$	8,724.10
EFT90250	16/11/2022	Alpine Laundry Pty Ltd	Cleaning	\$	590.73
EFT90251	16/11/2022	Amelia Forrest	Umpire Fees	\$	50.00
EFT90252	16/11/2022	Aqua Allsorts (TTF The Terara Trust T/as)	Plumbing Services	\$	4,522.95
EFT90253	16/11/2022	Arbor Guy Certified Tree Specialist	Tree Maintenance	\$	9,124.50
EFT90254	16/11/2022	Augusta IGA (Hilltop Asset Pty Ltd T/as)	Grocery Supplies	\$	135.53
EFT90255	16/11/2022	Aysha Ceh	Reimbursement	\$	80.00
EFT90256	16/11/2022	B & B Street Sweeping Pty Ltd	Street Sweeping	\$	17,528.78
EFT90257	16/11/2022	Bendigo Telco Ltd	Usage and Service Charges	\$	4,627.84
EFT90258	16/11/2022	Best Western Hotel Lord Forrest	Accommodation	\$	590.00
EFT90259	16/11/2022	Bob Waddell & Associates Pty Ltd	Rates Services	\$	1,443.75
EFT90260	16/11/2022	Boc LTD	Container Rental	\$	38.84
EFT90261	16/11/2022	Bollig Design Group	Architectural Services	\$	7,975.00
EFT90262	16/11/2022	Brooks Hire Service Pty Ltd	Equipment Hire	\$	1,660.56
EFT90263	16/11/2022	Brownes Foods Operations Pty Ltd	Milk Supply	\$	59.18
EFT90264	16/11/2022	Bunnings	Hardware Supplies	\$	1,035.18
EFT90265	16/11/2022	Byte Construct Pty Ltd	Construction Aquatic Centre	\$	230,074.77
EFT90266	16/11/2022	CB Traffic Solutions Pty Ltd	Traffic Management	\$	5,162.24
EFT90267	16/11/2022	Century Entertainment Australia Pty Ltd	Box Office Takings	\$	5,469.96
EFT90268	16/11/2022	Civil Structural Consulting Pty Ltd	Consultancy Services	\$	1,007.08
EFT90269	16/11/2022	Cleanaway Pty Ltd	Waste Management	\$	177,526.94
EFT90270	16/11/2022	Cookies Galore	Café Stock	\$	1,360.00
EFT90271	16/11/2022	Cowaramup Agencies	Repairs and Maintenance	\$	2,024.00
EFT90272	16/11/2022	Data#3 Limited	Software Licence	\$	14,624.01
EFT90273	16/11/2022	Department of Biodiversity, Conservation and Attractions	Water hole lease	\$	550.00
EFT90274	16/11/2022	Department of Transport - Vehicle Search	Vehicle Search Fee	\$	8.20
EFT90275	16/11/2022	Dunsborough & Margaret River Hearing	Pre-employment	\$	247.50
EFT90276	16/11/2022	Dutch Australian Foundation	Reimbursement	\$	640.28
EFT90277	16/11/2022	Eco Land Clearing (B.L Saunders & M.D Saunders T/as)	Fire Breaks	\$	528.00

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List of Payments for the Month of November 22

EFT90278	16/11/2022	Eve Hately	Umpire Fees	\$	90.00
EFT90279	16/11/2022	Fairtel Pty Ltd	Usage and Service Charges	\$	287.87
EFT90280	16/11/2022	Frontline Fire and Rescue	Fire and Safety Equipment	\$	5,478.00
EFT90281	16/11/2022	Gathered Organics	Refreshments	\$	375.00
EFT90282	16/11/2022	Go Go On Hold	Messages On Hold Program	\$	414.00
EFT90283	16/11/2022	Gozzi's Gas & Plumbing Service	Plumbing Services	\$	4,462.23
EFT90284	16/11/2022	Gus Whitehead	Umpire Fees	\$	150.00
EFT90285	16/11/2022	Hadley Earthworks	Earthworks	\$	2,310.00
EFT90286	16/11/2022	Hannah Waters	Reimbursement	\$	464.63
EFT90287	16/11/2022	Herseys Safety Pty Ltd	Vehicle Maintenance	\$	2,261.49
EFT90288	16/11/2022	Key2creative	Website Maintenance	\$	154.00
EFT90289	16/11/2022	Keylar Shelving (QLD) Pty Ltd	Shelving	\$	910.42
EFT90290	16/11/2022	Kingston's Bakery Cafe (Skvv Family Trust T/as)	Refreshments	\$	208.00
EFT90291	16/11/2022	Lakeview Estate Pty Ltd	Return of Bonds	\$	314,954.00
EFT90292	16/11/2022	Landcare SJ Inc	Landcare Services	\$	460.00
EFT90293	16/11/2022	Leeuwin Civil Pty Ltd	Road Maintenance	\$	22,906.55
EFT90294	16/11/2022	Light Application Pty Ltd	Lighting Services	\$	148.50
EFT90295	16/11/2022	Lightning Ridge Electrical Contracting	Electrical Contractor	\$	6,845.02
EFT90296	16/11/2022	Living Springs	Bottled Water	\$	103.50
EFT90297	16/11/2022	MJB Industries Pty Ltd	Road Maintenance	\$	8,316.42
EFT90298	16/11/2022	Malatesta Road Paving & Hot Mix	Road Maintenance	\$	23,589.30
EFT90299	16/11/2022	Margaret River - Cowaramup Electrical Service	Electrical Services	\$	85.25
EFT90300	16/11/2022	Margaret River Board Riders	Community Development & Events Grant	\$	1,727.00
EFT90301	16/11/2022	Margaret River Domestic Water Carting	Water Supply	\$	320.00
EFT90302	16/11/2022	Margaret River Glass	Repairs and Maintenance	\$	603.50
EFT90303	16/11/2022	Margaret River Office Products Depot	Stationery & Office Supplies	\$	117.54
EFT90304	16/11/2022	Margaret River Pestman	Pest Control	\$	494.00
EFT90305	16/11/2022	Margaret River Retravisoin (Dorsett Retail Pty Ltd)	Electrical Goods	\$	4,065.95
EFT90306	16/11/2022	Margaret River Sign Company	Signs	\$	292.60
EFT90307	16/11/2022	Margaret River State Emergency Services Unit (Inc) - SES	Refreshments	\$	115.16
EFT90308	16/11/2022	Margaret River Timber and Hardware	Hardware Supplies	\$	271.44
EFT90309	16/11/2022	Marketforce Pty Ltd	Advertising	\$	3,178.31
EFT90310	16/11/2022	Marshall Beattie Automation (Marshall Beattie Pty Ltd T/as)	Building Maintenance	\$	9,438.00
EFT90311	16/11/2022	Mary Hirschmann	Employee Assistance Program	\$	1,190.00
EFT90312	16/11/2022	Mcmullen Nolan Group Pty Ltd (MNG)	Surveying Services	\$	2,123.00
EFT90313	16/11/2022	Mechanical Project Services (MPM Group T/as)	Building Maintenance	\$	774.86
EFT90314	16/11/2022	Merryn Jo Delaney	Waste Management Subsidy	\$	50.00
EFT90315	16/11/2022	Metal Artwork Creations	Staff Identification	\$	25.85
EFT90316	16/11/2022	Milford Homes Pty Ltd	Refund	\$	675.94
EFT90317	16/11/2022	Mobile Mouse	Training	\$	6,715.50
EFT90318	16/11/2022	NCI Adamson Earthmoving Pty Ltd	Road Maintenance	\$	12,133.00
EFT90319	16/11/2022	Nordic Fitness Equipment	Gym Supplies	\$	1,223.00
EFT90320	16/11/2022	PLE Computer Pty Ltd	Computer Equipment	\$	470.26
EFT90321	16/11/2022	PVP Signs	Signs	\$	2,766.50
EFT90322	16/11/2022	Paul Gerrard Fitzgerald	Roofing	\$	495.00
EFT90323	16/11/2022	Procare Locksmiths & Commercial Maintenance	Locksmiths	\$	307.50
EFT90324	16/11/2022	QikKids (Myxplor Pty Ltd T/as)	OSHS software	\$	240.90
EFT90325	16/11/2022	Raylene Joyce Field	Umpire Fees	\$	420.00
EFT90326	16/11/2022	Reece Pty Ltd	Plumbing Supplies	\$	2,392.50
EFT90327	16/11/2022	Repco (GPC Asia Pacific Pty Ltd)	Parts and Supplies	\$	489.61
EFT90328	16/11/2022	Riley Field	Umpire Fees	\$	50.00
EFT90329	16/11/2022	River Fresh IGA	Grocery Supplies	\$	75.94
EFT90330	16/11/2022	Rockmaster Hydraulics (8588 Bussell Pty Ltd T/as)	Parts and Supplies	\$	302.81
EFT90331	16/11/2022	Rosa Brook Volunteer Bush Fire Brigade	Reimbursement	\$	125.00
EFT90332	16/11/2022	SW Labour Solutions Pty Ltd	Labour Hire	\$	5,800.76
EFT90333	16/11/2022	Sandgroper Contracting	Waste Management	\$	2,244.00
EFT90334	16/11/2022	Sasha Hughes	Umpire Fees	\$	40.00
EFT90335	16/11/2022	Scope Business Imaging	Copy Charges	\$	4,844.54
EFT90336	16/11/2022	Seek LTD	Advertising	\$	704.00
EFT90337	16/11/2022	Smartsalary (Smartsalary Pty Limited)	Salary Sacrifices	\$	5,181.96
EFT90338	16/11/2022	South West Academy Of Sport Inc	Donation	\$	4,400.00
EFT90339	16/11/2022	South West Compressors	Minor Plant Maintenance	\$	794.84
EFT90340	16/11/2022	South West Computable	Printing & Stationery	\$	199.65
EFT90341	16/11/2022	South West Isuzu	Vehicle Maintenance	\$	331.35
EFT90342	16/11/2022	Southern Lock And Security	Security Services	\$	45.50
EFT90343	16/11/2022	Southern Workwear & Embroidery	Protective Clothing	\$	2,694.35
EFT90344	16/11/2022	Spectur Limited	Security Systems	\$	2,257.20
EFT90345	16/11/2022	Stewart & Heaton Clothing Co	Protective Clothing	\$	815.85
EFT90346	16/11/2022	Synergy	Usage and Service Charges	\$	11,255.89
EFT90347	16/11/2022	T-Quip	Equipment Maintenance	\$	194.70
EFT90348	16/11/2022	TJ Depiazzi & Sons Garden Supplies	Horticultural Supplies	\$	4,487.26
EFT90349	16/11/2022	Tecon Australia	Building Inspector	\$	1,188.00
EFT90350	16/11/2022	Telstra	Usage and Service Charges	\$	676.04
EFT90351	16/11/2022	Terracycle Australia Pty Ltd	Waste Education	\$	4,001.99
EFT90352	16/11/2022	TicketSearch Pty Ltd	Ticket Sales	\$	86.63
EFT90353	16/11/2022	Tim Dwyer	Crossover Subsidy	\$	305.00
EFT90354	16/11/2022	Timothy Brett (T/as Lighthouse Carpentry And Renovation)	Building Maintenance	\$	4,670.90
EFT90355	16/11/2022	Toll (ipcc Pty Ltd T/as)	Freight	\$	201.82
EFT90356	16/11/2022	Transwa (Public Transport Authority)	TransWA Return	\$	423.51
EFT90357	16/11/2022	Tyrepower Limited	Vehicle Maintenance	\$	120.16
EFT90358	16/11/2022	Unified Solutions South West Pty Ltd	Security Services	\$	77.00
EFT90359	16/11/2022	Vasse Steel Solutions Pty Ltd	Handrail Install	\$	12,742.40
EFT90360	16/11/2022	Vintage Vocal	Performance Fee	\$	500.00
EFT90361	16/11/2022	WA Diesel Services Pty Ltd T/as Edge Equipment	Plant Hire	\$	4,537.50

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EFT90362	16/11/2022	Water Corporation - Osborne Park	Usage and Service Charges	\$	1,948.52
EFT90363	16/11/2022	Wesfarmers Kleenheat Gas Pty Ltd	Gas Supplies	\$	711.03
EFT90364	16/11/2022	Western Australia Police Service	Recruitment	\$	17.00
EFT90365	16/11/2022	Winc Australia Pty Ltd (former Staples)	Stationery & Office Supplies	\$	1,386.00
EFT90366	16/11/2022	Wren Oil	Waste Management	\$	16.50
EFT90367	23/11/2022	Access Housing Australia Limited	Rates Charge Correction	\$	4,387.87
EFT90368	23/11/2022	Advanced Driveway Sealing ATF Advanced Sealing Trust	Graffiti Removal	\$	308.00
EFT90369	23/11/2022	Aloha Painting (Naumowicz Investments Pty Ltd T/as)	Painting	\$	275.00
EFT90370	23/11/2022	Alpine Laundry Pty Ltd	Cleaning	\$	309.97
EFT90371	23/11/2022	Alyka Pty Ltd	Website Maintenance	\$	1,925.00
EFT90372	23/11/2022	Annie Bourgault	Program promotions	\$	200.00
EFT90373	23/11/2022	Apple Pty Ltd	Mobile Phone	\$	5,345.54
EFT90374	23/11/2022	Aqua Allsorts (TTF The Terara Trust T/as)	Plumbing Services	\$	396.00
EFT90375	23/11/2022	Aquatic Services WA Pty Ltd	Aquatic Maintenance	\$	3,670.70
EFT90376	23/11/2022	Arbor Guy Certified Tree Specialist	Tree Maintenance	\$	58,501.51
EFT90377	23/11/2022	Australian Community Media (Rural Press Pty Ltd)	Advertising	\$	2,398.01
EFT90378	23/11/2022	Australian Taxation Office - PAYG	PAYG Tax	\$	127,559.00
EFT90379	23/11/2022	B & B Street Sweeping Pty Ltd	Street Sweeping	\$	10,013.04
EFT90380	23/11/2022	Blackwood Tanks (TTF The Pettybridge Family Trust T/as)	Water Supplies	\$	895.00
EFT90381	23/11/2022	Blackwoods Aitkens	Parts and Supplies	\$	1,407.11
EFT90382	23/11/2022	Bob Waddell & Associates Pty Ltd	Rates Services	\$	165.00
EFT90383	23/11/2022	Brandie Kate Hodgins	Performance Fees	\$	300.00
EFT90384	23/11/2022	Brownes Foods Operations Pty Ltd	Milk Supply	\$	35.50
EFT90385	23/11/2022	Bunnings	Hardware Supplies	\$	1,918.15
EFT90386	23/11/2022	CB Traffic Solutions Pty Ltd	Traffic Management	\$	34,086.97
EFT90387	23/11/2022	Celia Helen Jones	Excess Rates	\$	2,327.05
EFT90388	23/11/2022	Chubb Australia Ltd	Fire and Security Services	\$	170.50
EFT90389	23/11/2022	Cleanaway Pty Ltd	Waste Management	\$	4,084.50
EFT90390	23/11/2022	Coca-cola Amatil	Kiosk Stock	\$	1,430.00
EFT90391	23/11/2022	Corsign WA Pty Ltd	Signs	\$	3,730.10
EFT90392	23/11/2022	Bidfood	Café Stock	\$	569.19
EFT90393	23/11/2022	Criena Jean Fitzgerald	Excess Rates	\$	2,019.00
EFT90394	23/11/2022	Deepdene Cafe	Catering	\$	675.00
EFT90395	23/11/2022	Diesel & Hydraulic Services South West	Vehicle Maintenance	\$	8,247.25
EFT90396	23/11/2022	Down South Wholesale	Wholesale Supplies	\$	394.12
EFT90397	23/11/2022	E & M Roshier Pty Ltd	Farming Equipment	\$	65.86
EFT90398	23/11/2022	Fleet Dynamics Pty Ltd	Vehicle GPS Tracking	\$	229.90
EFT90399	23/11/2022	Forch Australia Pty Ltd	Consumables	\$	186.56
EFT90400	23/11/2022	Frontline Fire and Rescue	Fire and Safety Equipment	\$	598.80
EFT90401	23/11/2022	Giorgi Giardini	Reimbursement	\$	85.85
EFT90402	23/11/2022	Go Go On Hold	On Hold Message Service	\$	165.00
EFT90403	23/11/2022	Gozzi's Gas & Plumbing Service	Plumbing Services	\$	8,075.78
EFT90404	23/11/2022	Ground Creative (atf J Davies Family Trust)	ICT Services	\$	297.00
EFT90405	23/11/2022	GymCare	Equipment Maintenance	\$	1,059.98
EFT90406	23/11/2022	Hanson Construction Materials Pty Ltd	Construction Materials	\$	1,081.30
EFT90407	23/11/2022	Ian Pavey	Graphics and Signage	\$	105.00
EFT90408	23/11/2022	Instant Weighing	Plant Repairs	\$	4,576.00
EFT90409	23/11/2022	James Bennett Pty Ltd	Library Stock	\$	344.59
EFT90410	23/11/2022	Jason Cleary	Reimbursement	\$	29.30
EFT90411	23/11/2022	Kim Alexander (T/as Bell Excavations WA)	Landcare Services	\$	400.00
EFT90412	23/11/2022	Kingston's Bakery Cafe (Skvv Family Trust T/as)	Catering	\$	1,400.00
EFT90413	23/11/2022	Kristine Louise Garnish	Refund	\$	150.00
EFT90414	23/11/2022	Kudardup Volunteer Bush Fire Brigade	Prescribed Burn	\$	480.00
EFT90415	23/11/2022	LGISWA	Conference	\$	33.00
EFT90416	23/11/2022	Leeuwin Civil Pty Ltd	Road Maintenance	\$	16,285.50
EFT90417	23/11/2022	Leeuwin Transport	Freight	\$	1,991.32
EFT90418	23/11/2022	Leeuwin Tyres	Vehicle Maintenance	\$	6,141.00
EFT90419	23/11/2022	Lightning Ridge Electrical Contracting	Electrical Contractor	\$	2,491.53
EFT90420	23/11/2022	Lions Club Of Leeuwin	Community Development & Events Grant	\$	2,000.00
EFT90421	23/11/2022	Living Springs	Bottled Water	\$	172.50
EFT90422	23/11/2022	Lower Blackwood Landcare LCDC	Regenerative Agriculture in Practice Grant	\$	50,000.00
EFT90423	23/11/2022	MDM Entertainment Pty Ltd	DVD Stock	\$	98.52
EFT90424	23/11/2022	MJB Industries Pty Ltd	Road Maintenance	\$	8,315.69
EFT90425	23/11/2022	Malatesta Road Paving & Hot Mix	Road Maintenance	\$	11,429.00
EFT90426	23/11/2022	Margaret River Bakery	Catering	\$	220.00
EFT90427	23/11/2022	Margaret River Chamber Of Commerce & Industry	Local is more cards	\$	1,530.00
EFT90428	23/11/2022	Margaret River Law	Legal Fees	\$	404.80
EFT90429	23/11/2022	Margaret River Men's Shed Inc.	Various Crafts	\$	154.00
EFT90430	23/11/2022	Margaret River Office Products Depot	Stationery & Office Supplies	\$	222.06
EFT90431	23/11/2022	Margaret River Pestman	Pest Control	\$	583.00
EFT90432	23/11/2022	Margaret River Retravision (Dorsett Retail Pty Ltd)	Electrical Goods	\$	384.00
EFT90433	23/11/2022	Margaret River Senior High School	Venue Hire	\$	2,700.00
EFT90434	23/11/2022	Margaret River Timber and Hardware	Hardware Supplies	\$	32.40
EFT90435	23/11/2022	Margaret River Windscreens Pty Ltd	Vehicle Maintenance	\$	1,170.00
EFT90436	23/11/2022	Marketforce Pty Ltd	Advertising	\$	656.00
EFT90437	23/11/2022	Matilda Kelleher (Tilly Kay)	Performance Fees	\$	200.00
EFT90438	23/11/2022	Media Engine (Print And Design Online Pty. Ltd. T/as)	23950	\$	4,041.40
EFT90439	23/11/2022	Mercure Hotel	Accommodation	\$	812.95
EFT90440	23/11/2022	Metal Artwork Creations	Staff Identification	\$	14.85
EFT90441	23/11/2022	Milkmarks Landscapes (M.T Buckley & J Buckley T/as)	Landscaping Works	\$	1,738.00
EFT90442	23/11/2022	Modern Window Cleaning	Window Cleaning	\$	517.00
EFT90443	23/11/2022	Myfanwy Lynette Edwards	Excess Rates	\$	2,695.98
EFT90444	23/11/2022	Myzone (APAC) Pty Ltd	Minor Equipment	\$	728.70
EFT90445	23/11/2022	NCI Adamson Earthmoving Pty Ltd	Road Maintenance	\$	94,171.83

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EFT90446	23/11/2022	Narelle Graue	Reimbursement	\$ 164.98
EFT90447	23/11/2022	Nature Conservation Margaret River Region Inc	Community Engagement Grant	\$ 75,852.00
EFT90448	23/11/2022	Nature's Botanical Pty Ltd	Insect Repellent	\$ 656.50
EFT90449	23/11/2022	PFD Food Service Pty Ltd	Kiosk Stock	\$ 776.03
EFT90450	23/11/2022	Peter John Coffey	Pensioner Rebate	\$ 546.37
EFT90451	23/11/2022	Potentia Consulting Group Pty Ltd	Duplicate Rates Refund	\$ 1,965.00
EFT90452	23/11/2022	Procare Locksmiths & Commercial Maintenance	Locksmiths	\$ 1,202.00
EFT90453	23/11/2022	Red Dot Store	Consumables	\$ 53.99
EFT90454	23/11/2022	Repro (GPC Asia Pacific Pty Ltd)	Parts and Supplies	\$ 886.34
EFT90455	23/11/2022	River Fresh IGA	Grocery Supplies	\$ 287.97
EFT90456	23/11/2022	Rochelle Frances Brady	Excess Rates	\$ 346.00
EFT90457	23/11/2022	SAI Global Australia Pty Ltd	Membership	\$ 2,841.64
EFT90458	23/11/2022	SW Labour Solutions Pty Ltd	Labour Hire	\$ 14,308.97
EFT90459	23/11/2022	Safe First Training WA Pty Ltd (TTF Hallelujah Trust T/as)	Training	\$ 79.00
EFT90460	23/11/2022	Sandgroper Contracting	Waste Management	\$ 5,390.00
EFT90461	23/11/2022	Seasponge Cleaning And Maintenance	Cleaning	\$ 5,282.48
EFT90462	23/11/2022	Shane Michael Gillen	Seniors Rebate Refund	\$ 90.98
EFT90463	23/11/2022	Small Engine Worx	Equipment Maintenance	\$ 135.00
EFT90464	23/11/2022	Smartsalary (Smartsalary Pty Limited)	Smart Salary Packages	\$ 240.02
EFT90465	23/11/2022	Soggybones Pty Ltd	Skate Jam Competition	\$ 1,750.00
EFT90466	23/11/2022	South West Machinery (Jaguar Holdings Pty Ltd t/as)	Plant Maintenance	\$ 1,415.64
EFT90467	23/11/2022	Spraymow Services	Grounds Maintenance	\$ 2,019.16
EFT90468	23/11/2022	Stewart & Heaton Clothing Co	Protective Clothing	\$ 1,257.43
EFT90469	23/11/2022	Stewart Property Services Margaret River	Cleaning	\$ 330.00
EFT90470	23/11/2022	Surcon Surveying Services (Survcon Pty Ltd T/as)	Survey	\$ 1,210.00
EFT90471	23/11/2022	Synergy	Usage and Service Charges	\$ 3,721.38
EFT90472	23/11/2022	TJ Depiazzi & Sons Garden Supplies	Horticultural Supplies	\$ 7,395.30
EFT90473	23/11/2022	Talis Consultants Pty Ltd	Consultancy Services	\$ 2,142.25
EFT90474	23/11/2022	Telstra	Usage and Service Charges	\$ 7,081.42
EFT90475	23/11/2022	Timothy Brett (T/as Lighthouse Carpentry And Renovation)	Building Maintenance	\$ 7,693.19
EFT90476	23/11/2022	Toll (ipec Pty Ltd T/as)	Freight	\$ 175.07
EFT90477	23/11/2022	Tyrepower Limited	Vehicle Maintenance	\$ 1,523.47
EFT90478	23/11/2022	Welcome Site (Zanphire Pty Ltd)	Portable Ablution Hire	\$ 3,322.00
EFT90479	23/11/2022	Wesfarmers Kleenheat Gas Pty Ltd	Gas Supplies	\$ 513.07
EFT90480	23/11/2022	Westbooks	Library Stock	\$ 257.23
EFT90481	23/11/2022	Winc Australia Pty Ltd (former Staples)	Stationery & Office Supplies	\$ 1,107.82
EFT90482	30/11/2022	Ally-Anne Gordon	Performance Fees	\$ 200.00
EFT90483	30/11/2022	Aloha Painting (Naumowicz Investments Pty Ltd T/as)	Painting	\$ 200.75
EFT90484	30/11/2022	Alpine Laundry Pty Ltd	Cleaning	\$ 270.74
EFT90485	30/11/2022	Andrea Louise Hough	Travel Reimbursement	\$ 431.64
EFT90486	30/11/2022	Apple Pty Ltd	Mobile Phone	\$ 4,995.98
EFT90487	30/11/2022	Aqua Allsorts (TTF The Terara Trust T/as)	Plumbing Services	\$ 1,000.34
EFT90488	30/11/2022	Arbor Guy Certified Tree Specialist	Tree Maintenance	\$ 21,365.30
EFT90489	30/11/2022	Augusta Community Resource Centre Inc	Event Coordination	\$ 12,982.46
EFT90490	30/11/2022	Boc LTD	Container Rental	\$ 37.58
EFT90491	30/11/2022	Brewhouse Margaret River	Beverage Stock for resale	\$ 937.86
EFT90492	30/11/2022	Brown Hill Estate Australia Pty Ltd	Beverage Stock for resale	\$ 1,090.58
EFT90493	30/11/2022	Brownes Foods Operations Pty Ltd	Milk Supply	\$ 71.00
EFT90494	30/11/2022	Bunnings	Hardware Supplies	\$ 859.60
EFT90495	30/11/2022	Burch Family Wines - Howard Park & Madfish Wines	Beverage Stock for resale	\$ 660.00
EFT90496	30/11/2022	Busselton Aluminium Windows (Johnfield Pty Ltd)	Building Maintenance	\$ 4,145.65
EFT90497	30/11/2022	Busselton Civil & Plant Hire (busselton Civil Pty Ltd T/as)	Civil Construction	\$ 15,778.13
EFT90498	30/11/2022	Byte Construct Pty Ltd	Commercial Construction	\$ 212,485.80
EFT90499	30/11/2022	CB Traffic Solutions Pty Ltd	Traffic Management	\$ 7,429.92
EFT90500	30/11/2022	CSSTECH Group Pty Ltd	Minor Equipment	\$ 817.48
EFT90501	30/11/2022	Carol Christine Hunt	Waste Education	\$ 522.50
EFT90502	30/11/2022	Carroll And Richardson Flagworld Pty Ltd	Minor Equipment	\$ 606.50
EFT90503	30/11/2022	Cemeteries & Crematoria Association of WA	Membership	\$ 125.00
EFT90504	30/11/2022	Chang Thai Kitchen	Catering	\$ 250.00
EFT90505	30/11/2022	Chubb Australia Ltd	Fire and Security Services	\$ 1,027.38
EFT90506	30/11/2022	Cleanaway Pty Ltd	Waste Management	\$ 77.70
EFT90507	30/11/2022	Climatic Service Pty Ltd	Equipment Maintenance	\$ 1,424.50
EFT90508	30/11/2022	Combined Team Services	Training	\$ 1,990.00
EFT90509	30/11/2022	Community Information Support Services Ltd	Membership	\$ 11,010.00
EFT90510	30/11/2022	Connect Call Centre Services (Call Associates Pty Ltd T/as)	After Hours Call Service	\$ 88.83
EFT90511	30/11/2022	Cowaramup Volunteer Bush Fire Brigade	Reimbursement	\$ 300.00
EFT90512	30/11/2022	Bidfood	Kiosk Stock/Café Stock	\$ 582.18
EFT90513	30/11/2022	Culture Counts Australia Pty Ltd	Subscriptions	\$ 2,200.00
EFT90514	30/11/2022	Data#3 Limited	Software Licence	\$ 2,873.94
EFT90515	30/11/2022	Deepdene Cafe	Catering	\$ 250.00
EFT90516	30/11/2022	Diesel & Hydraulic Services South West	Vehicle Maintenance	\$ 15,847.23
EFT90517	30/11/2022	Dormakaba Australia Pty Ltd	Building Maintenance	\$ 728.51
EFT90518	30/11/2022	Down South Wholesale	Wholesale Supplies	\$ 247.52
EFT90519	30/11/2022	Filterex Innovative Wastewater Solutions	Refund	\$ 236.00
EFT90520	30/11/2022	Georgina Ferreira	Reimbursement	\$ 110.00
EFT90521	30/11/2022	Gravity Etc	Vacation Care Activities	\$ 480.00
EFT90522	30/11/2022	HRCWA - Height Safety Recertification Company	Height Safety Inspections	\$ 4,070.00
EFT90523	30/11/2022	Hanson Construction Materials Pty Ltd	Construction Materials	\$ 2,532.44
EFT90524	30/11/2022	Harcher (WA Distributors Pty Ltd T/as)	Kiosk Stock	\$ 521.10
EFT90525	30/11/2022	Heritage Way Pty Ltd (T/As Domus Nursery)	Horticultural Supplies	\$ 240.71
EFT90526	30/11/2022	Herseys Safety Pty Ltd	Parts & Supplies	\$ 1,900.00
EFT90527	30/11/2022	Ian Pavey	Graphics and Signage	\$ 200.00
EFT90528	30/11/2022	Indigenous Arts Foundation	Performance Fees	\$ 6,000.00
EFT90529	30/11/2022	Innovation Cluster (Agristart Pty Ltd)	Workshop	\$ 5,500.00

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

List of Payments for the Month of November 22				
EFT90530	30/11/2022	Instant Racking	Shelving	\$ 1,484.00
EFT90531	30/11/2022	James Taylor	Reimbursement	\$ 633.52
EFT90532	30/11/2022	Kevin Thompson	Recruitment	\$ 174.00
EFT90533	30/11/2022	Key2creative	Website Maintenance	\$ 308.00
EFT90534	30/11/2022	Lauren Ellis	Refund	\$ 150.00
EFT90535	30/11/2022	Leeuwin Parklands Pty Ltd	Landscape Maintenance Bond	\$ 1,533.90
EFT90536	30/11/2022	Lightning Ridge Electrical Contracting	Electrical Contractor	\$ 31,798.25
EFT90537	30/11/2022	Margaret River Beverages	Beverage Stock for resale	\$ 252.81
EFT90538	30/11/2022	Margaret River Chamber Of Commerce & Industry	Local-Is-More Gift Cards	\$ 511.00
EFT90539	30/11/2022	Margaret River Newsagency (Krayt Pty Ltd T/as)	Papers & Magazines	\$ 146.44
EFT90540	30/11/2022	Margaret River Office Products Depot	Stationery & Office Supplies	\$ 1,771.31
EFT90541	30/11/2022	Margaret River Print	Printing	\$ 172.00
EFT90542	30/11/2022	Margaret River Sign Company	Signs	\$ 316.80
EFT90543	30/11/2022	Margaret River Tilt Tray and Towing Service	Vehicle Recovery	\$ 495.00
EFT90544	30/11/2022	Margaret River Timber and Hardware	Hardware Supplies	\$ 9.89
EFT90545	30/11/2022	Margaret River Volunteer Fire And Rescue	Fire Management	\$ 1,260.00
EFT90546	30/11/2022	Margaret Riverside Accommodation	Accommodation	\$ 345.00
EFT90547	30/11/2022	Matilda Moroney	Umpire Fees	\$ 30.00
EFT90548	30/11/2022	Mechanical Project Services (MPM Group T/as)	Building Maintenance	\$ 1,003.75
EFT90549	30/11/2022	Mercure Hotel	Accommodation	\$ 468.00
EFT90550	30/11/2022	Mike Goodwin	Performance Fees	\$ 400.00
EFT90551	30/11/2022	Mikmarns Landscapes (M.T Buckley & J Buckley T/as)	Landscaping Works	\$ 5,758.50
EFT90552	30/11/2022	Minter Ellison	Legal Fees	\$ 4,044.81
EFT90553	30/11/2022	Mutch, Ian Keith	Supertown Artwork	\$ 4,356.00
EFT90554	30/11/2022	NCI Adamson Earthmoving Pty Ltd	Road Maintenance	\$ 55,207.68
EFT90555	30/11/2022	Naturaliste Hygiene Services	Hygiene Services	\$ 770.00
EFT90556	30/11/2022	North Metropolitan Tafe	Training	\$ 89.10
EFT90557	30/11/2022	PFD Food Service Pty Ltd	Kiosk Stock	\$ 339.07
EFT90558	30/11/2022	Penelope Dowd	Reimbursement	\$ 11.00
EFT90559	30/11/2022	Procare Locksmiths & Commercial Maintenance	Locksmiths	\$ 277.00
EFT90560	30/11/2022	Relay Controls (Relay Controls Pty Ltd)	Building Maintenance	\$ 594.00
EFT90561	30/11/2022	River Fresh IGA	Grocery Supplies	\$ 623.71
EFT90562	30/11/2022	Rosa Brook Volunteer Bush Fire Brigade	Reimbursement	\$ 492.00
EFT90563	30/11/2022	SW Labour Solutions Pty Ltd	Labour Hire	\$ 2,343.51
EFT90564	30/11/2022	Sandgroper Contracting	Waste Management	\$ 2,843.50
EFT90565	30/11/2022	Seek LTD	Advertising	\$ 682.00
EFT90566	30/11/2022	Seton Australia	Stationary	\$ 105.38
EFT90567	30/11/2022	Smartsalary (Smartsalary Pty Limited)	Salary Sacrifices	\$ 7,747.59
EFT90568	30/11/2022	Sophie Atkins	Reimbursement	\$ 431.64
EFT90569	30/11/2022	South West Machinery (Jaguar Holdings Pty Ltd t/as)	Minor Equipment	\$ 131.10
EFT90570	30/11/2022	South West Outdoor Power (Pelham Industries Pty Ltd)	Minor Equipment	\$ 4,995.00
EFT90571	30/11/2022	Southern Workwear & Embroidery	Protective Clothing	\$ 963.00
EFT90572	30/11/2022	State Library Of WA	Freight	\$ 1,184.55
EFT90573	30/11/2022	Stewart & Heaton Clothing Co	Protective Clothing	\$ 24.16
EFT90574	30/11/2022	Susan Elton	Reimbursement	\$ 101.54
EFT90575	30/11/2022	Sustainable Settlements Pty Ltd & Perron Developments PL	Rates Refund	\$ 316.58
EFT90576	30/11/2022	Synergy	Usage and Service Charges	\$ 10,288.18
EFT90577	30/11/2022	TJ Depiazzi & Sons Garden Supplies	Horticultural Supplies	\$ 5,347.77
EFT90578	30/11/2022	Tenardi Earthmoving (Tenardi, Gregory Philip)	Earthworks	\$ 1,914.00
EFT90579	30/11/2022	The Concrete Club Incorporated	Event Assistance	\$ 1,500.00
EFT90580	30/11/2022	The Nomadics	Performance Fees	\$ 300.00
EFT90581	30/11/2022	The Walt Disney Company (Australia) Pty Limited	Film Distributor	\$ 196.88
EFT90582	30/11/2022	Theo Mathews Architect Pty Ltd	Consultancy	\$ 385.00
EFT90583	30/11/2022	Thomson Geer Lawyers	Legal Fees	\$ 4,463.25
EFT90584	30/11/2022	Totally Sound	Minor Equipment Repairs	\$ 715.77
EFT90585	30/11/2022	Trade Hire	Equipment Hire	\$ 1,497.44
EFT90586	30/11/2022	Visimax (Bucci Holdings Pty Ltd Tr/as)	Stationary Items and Protective Wear	\$ 735.67
EFT90587	30/11/2022	WA Local Government Assoc (WALGA)	Training	\$ 730.00
EFT90588	30/11/2022	Wallcliffe Volunteer Bush Fire Brigade	Reimbursement	\$ 1,210.00
EFT90589	30/11/2022	Welcome Site (Zanphire Pty Ltd)	Portable Ablution Hire	\$ 363.00
EFT90590	30/11/2022	West Australian Newspapers Ltd	Advertising	\$ 7,615.61
EFT90591	30/11/2022	Witchcliffe Bush Fire Brigade	Prescribed Burn	\$ 850.00
EFT90592	30/11/2022	Woodland Trails And Landscape	Reserve Maintenance	\$ 2,462.90
Total EFTs for Nov 22				\$ 3,398,217.87

DD	Date	Name	Description	Amount
	01/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$ 109.00
	01/11/2022	The Trustee For Aware Super	Payroll deductions	\$ 48,618.80
	01/11/2022	HOSTPLUS Superannuation Fund	Superannuation contributions	\$ 6,573.52
	01/11/2022	Onepath Masterfund	Payroll deductions	\$ 760.46
	01/11/2022	Australian Retirement Trust	Payroll deductions	\$ 1,360.63
	01/11/2022	Australian Ethical Retail Superannuation Fund	Payroll deductions	\$ 832.25
	01/11/2022	ING Direct	Payroll deductions	\$ 610.12
	01/11/2022	Hesta Super Fund	Superannuation contributions	\$ 713.21
	01/11/2022	AustralianSuper	Payroll deductions	\$ 14,304.07
	01/11/2022	Catholic Super	Payroll deductions	\$ 543.95
	01/11/2022	Les Mills Asia Pacific (GARNAMA Pty Ltd T/as)	Fitness Membership	\$ 1,036.75
	01/11/2022	Waterlogic Australia Pty Ltd	Water Supply	\$ 144.65
	01/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$ 900.00
	01/11/2022	BT Super for Life	Superannuation contributions	\$ 974.32
	01/11/2022	IOOF Investment Management Limited	Superannuation contributions	\$ 620.03

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

List of Payments for the Month of November 22

01/11/2022	Colonial First State Firstchoice Superannuation Trust	Superannuation contributions	\$	361.65
01/11/2022	Bendigo Superannuation Plan	Superannuation contributions	\$	101.03
01/11/2022	Cbus	Payroll deductions	\$	730.57
01/11/2022	Onesuper	Payroll deductions	\$	587.93
01/11/2022	MLC Super Fund	Superannuation contributions	\$	290.47
01/11/2022	Anz Smart Choice Super	Superannuation contributions	\$	263.56
01/11/2022	Commonwealth Bank Group Super	Superannuation contributions	\$	230.45
01/11/2022	UniSuper	Superannuation contributions	\$	123.35
01/11/2022	Suncorp Superannuation	Superannuation contributions	\$	120.37
01/11/2022	Hewitt And Thompson Super Fund	Payroll deductions	\$	205.42
01/11/2022	Colonial First State Investments Limited	Superannuation contributions	\$	569.97
01/11/2022	Future Super Fund	Superannuation contributions	\$	593.02
01/11/2022	Wealth Personal Superannuation and Pension Fund	Superannuation contributions	\$	763.81
01/11/2022	Rest Superannuation	Superannuation contributions	\$	1,927.30
01/11/2022	AMP Super Fund (TTF Super Directions Fund T/as)	Superannuation contributions	\$	180.58
03/11/2022	Payroll PE 01/11/2022	Payroll	\$	439,384.18
07/11/2022	Fujifilm Business Innovation Australia Pty Ltd	Lease Payment	\$	619.30
07/11/2022	Bankwest	Corporate Credit Cards	\$	6,689.74
09/11/2022	Fujifilm Business Innovation Australia Pty Ltd	Lease Payment	\$	957.00
13/11/2022	De Lage Landen	Lease Payment	\$	98.25
14/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	85.00
15/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	95.00
15/11/2022	The Trustee For Aware Super	Payroll deductions	\$	51,564.79
15/11/2022	HOSTPLUS Superannuation Fund	Payroll deductions	\$	5,975.42
15/11/2022	Onepath Masterfund	Payroll deductions	\$	760.46
15/11/2022	Australian Ethical Retail Superannuation Fund	Payroll deductions	\$	760.86
15/11/2022	ING Direct	Payroll deductions	\$	589.47
15/11/2022	Hesta Super Fund	Superannuation contributions	\$	517.80
15/11/2022	AustralianSuper	Payroll deductions	\$	14,128.91
15/11/2022	Catholic Super	Payroll deductions	\$	537.80
15/11/2022	BT Super for Life	Superannuation contributions	\$	961.46
15/11/2022	SG Fleet	Lease Payment	\$	3,796.24
15/11/2022	IOOF Investment Management Limited	Superannuation contributions	\$	485.11
15/11/2022	Colonial First State Firstchoice Superannuation Trust	Superannuation contributions	\$	441.95
15/11/2022	Bendigo Superannuation Plan	Superannuation contributions	\$	116.52
15/11/2022	Cbus	Payroll deductions	\$	733.93
15/11/2022	Onesuper	Payroll deductions	\$	587.93
15/11/2022	MLC Super Fund	Superannuation contributions	\$	290.47
15/11/2022	Anz Smart Choice Super	Superannuation contributions	\$	263.56
15/11/2022	Hewitt And Thompson Super Fund	Payroll deductions	\$	347.33
15/11/2022	Commonwealth Bank Group Super	Superannuation contributions	\$	231.12
15/11/2022	UniSuper	Superannuation contributions	\$	43.30
15/11/2022	Suncorp Superannuation	Superannuation contributions	\$	139.55
15/11/2022	Colonial First State Investments Limited	Superannuation contributions	\$	580.51
15/11/2022	Future Super Fund	Superannuation contributions	\$	570.69
15/11/2022	Wealth Personal Superannuation and Pension Fund	Superannuation contributions	\$	763.81
15/11/2022	Australian Retirement Trust	Superannuation contributions	\$	1,466.65
15/11/2022	Rest Superannuation	Superannuation contributions	\$	1,895.82
15/11/2022	AMP Super Fund (TTF Super Directions Fund T/as)	Superannuation contributions	\$	183.69
16/11/2022	Booking.com B.V.	Online Reservation Fees	\$	664.08
16/11/2022	Western Australian Treasury Corporation	Loan Repayment	\$	23,610.61
16/11/2022	Myzone (APAC) Pty Ltd	Workout Tracker	\$	218.90
17/11/2022	Payroll PE 15/11/2022	Payroll	\$	431,876.53
18/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	105.00
18/11/2022	Pivotal Satellite Pty Ltd	Usage and Service Charges	\$	30.00
18/11/2022	3E Advantage Pty Ltd	Lease Payment	\$	1,334.30
19/11/2022	Booking.com B.V.	Online Reservation Fees	\$	145.80
19/11/2022	Expedia Australia Pty Ltd	Commissions	\$	145.80
21/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	190.00
21/11/2022	BP Australia Pty Ltd	Fuel	\$	3,861.99
21/11/2022	BP Australia Pty Ltd	Fuel	\$	3,316.57
22/11/2022	Western Australian Treasury Corporation	Loan Repayment	\$	10,145.81
23/11/2022	De Lage Landen	Lease Payment	\$	198.00
24/11/2022	Easifleet Management	Lease Payment	\$	10,520.95
26/11/2022	Printsync Business Solutions	Copy Charges	\$	110.00
26/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	65.00
27/11/2022	Pitney Bowes Software	Lease Payment	\$	1,655.50
28/11/2022	Western Australian Treasury Corporation	Loan Repayment	\$	165,242.19
29/11/2022	Western Australian Treasury Corporation	Loan Repayment	\$	4,386.47
29/11/2022	The Trustee For Aware Super	Payroll deductions	\$	51,064.13
29/11/2022	HOSTPLUS Superannuation Fund	Payroll deductions	\$	5,777.99
29/11/2022	Onepath Masterfund	Payroll deductions	\$	760.46
29/11/2022	ING Direct	Payroll deductions	\$	679.58
29/11/2022	Hesta Super Fund	Superannuation contributions	\$	564.05
29/11/2022	AustralianSuper	Payroll deductions	\$	13,515.39
29/11/2022	Catholic Super	Payroll deductions	\$	551.20
29/11/2022	BT Super for Life	Superannuation contributions	\$	993.48
29/11/2022	IOOF Investment Management Limited	Superannuation contributions	\$	788.87
29/11/2022	Colonial First State Firstchoice Superannuation Trust	Superannuation contributions	\$	382.03
29/11/2022	Bendigo Superannuation Plan	Superannuation contributions	\$	92.91
29/11/2022	Cbus	Payroll deductions	\$	734.03
29/11/2022	Onesuper	Payroll deductions	\$	602.53
29/11/2022	MLC Super Fund	Superannuation contributions	\$	290.47
29/11/2022	Anz Smart Choice Super	Superannuation contributions	\$	263.56

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

List of Payments for the Month of November 22

29/11/2022	Hewitt And Thompson Super Fund	Payroll deductions	\$	441.41
29/11/2022	Vicsuper	Superannuation contributions	\$	107.82
29/11/2022	Commonwealth Bank Group Super	Superannuation contributions	\$	210.15
29/11/2022	Unisuper	Superannuation contributions	\$	29.32
29/11/2022	Suncorp Superannuation	Superannuation contributions	\$	151.11
29/11/2022	Colonial First State Investments Limited	Superannuation contributions	\$	575.42
29/11/2022	Future Super Fund	Superannuation contributions	\$	570.69
29/11/2022	Wealth Personal Superannuation and Pension Fund	Superannuation contributions	\$	763.81
29/11/2022	Australian Retirement Trust	Superannuation contributions	\$	1,428.88
29/11/2022	Rest Superannuation	Superannuation contributions	\$	1,860.54
29/11/2022	AMP Super Fund (TTF Super Directions Fund T/as)	Superannuation contributions	\$	179.54
30/11/2022	Dell Financial Services	Lease Payment	\$	19,528.11
30/11/2022	Exetel Pty Ltd	Usage and Service Charges	\$	109.00
Total Direct Debits for Nov 22			\$	1,383,431.82

Total Payments for Nov 22	\$	4,781,918.24
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Transfers to and from Municipal Account (CMA - Cash Management Account)				
7/11/2022	Transfer	Tsf from Muni to CMA - Bonds Oct 2022 Reconciliation	\$	300.00
Total Transfers for Nov 22			\$	300.00

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

Corporate Credit Card - Direct Debit November 22			
Date	Amount	Name	Description
CEO			
Total	\$ -		
Director Corporate and Community Services			
28/09/2022	\$ 184.76	Crown Perth	A/CEO Accommodation to attend LG Professionals CEO Connections Forum
05/10/2022	\$ 342.89	Crown Perth	Accommodation for Cr Daniel to attend WALGA Convention 2022
06/10/2022	\$ 120.00	RAW Habitat Margaret River	Flowers for Shire President - Husband passing
06/10/2022	\$ 685.78	Crown Perth	Accommodation for Cr Cristoffanini to attend WALGA Convention 2022
Total	\$ 1,333.43		
Manager Corporate Performance			
21/09/2022	\$ 280.00	Kounta Redfern	Point of sale software licences
21/09/2022	\$ 850.00	IAP2 Australia	General Manager HEART Professional Development - IAP2 - Engagement Essentials
21/09/2022	\$ 2,400.00	IAP2 Australia	General Manager HEART Professional Development - IAP2 - Engagement Design - Virtual & Engagement Methods
23/09/2022	\$ 406.56	Sanjari Pro	Services for Shire public website (\$271.70 USD)
29/09/2022	\$ 31.07	Cloudflare	DNS management and security (\$20.00 USD)
03/10/2022	\$ 36.96	Google Suite	Domain name for Mindful Margaret River
03/10/2022	\$ 11.49	Physitrack London	Exercise Physiology Software for creating exercise programs, videos and client engagement. Rec Centre
04/10/2022	\$ 14.95	GoFax Pty Ltd	Online fax service
04/10/2022	\$ 38.92	Binary Fortress Kanata	Check Central backup job monitoring (\$25 USD)
05/10/2022	\$ 41.29	Canva	Online graphic design presentation tool
05/10/2022	\$ 31.18	Twilio Sengrid	Monthly subscription integrated membership email system Rec Centre
07/10/2022	\$ 361.68	Microsoft Azure	Veeam Office 365 machine and blog storage
11/10/2022	\$ 276.84	Mailchimp	Shire communications to email
14/10/2022	\$ 487.98	Facebook	HEART Social Media Advertising Expense
14/10/2022	\$ 49.50	Cliniko	Exercise Physiology Software for Clients Rec Centre
Total	\$ 5,318.42		
Community Emergency Services Manager			
Total	\$ -		
Manager Library Services			
Total	\$ -		
Director Sustainable Development and Infrastructure Services			
Total	\$ -		
Fees and Charges			
18/10/2022	\$ 37.89	Foreign Transaction Fees	
Total	\$ 37.89		
Total	\$ 6,689.74		



MONTHLY FINANCIAL REPORT
(Containing the Statement of Financial Activity)
For the period ending 30 November 2022

LOCAL GOVERNMENT ACT 1995
LOCAL GOVERNMENT (FINANCIAL MANAGEMENT) REGULATIONS 1996

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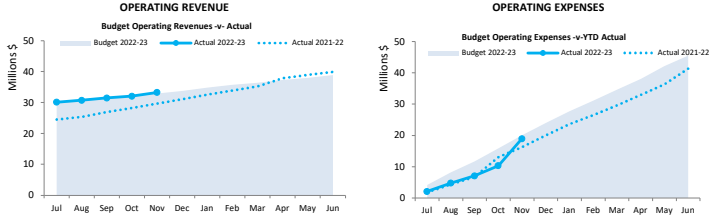
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SHIRE OF AUGUSTA MARGARET RIVER ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

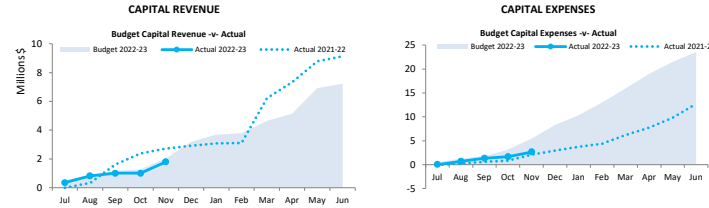
**MONTHLY FINANCIAL REPORT
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

SUMMARY INFORMATION - GRAPHS

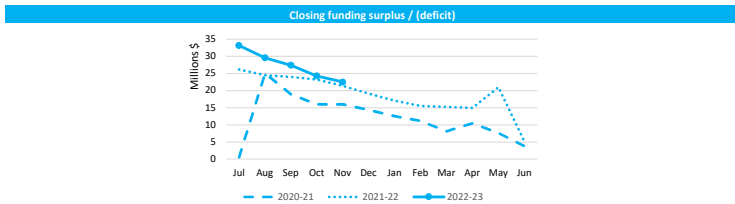
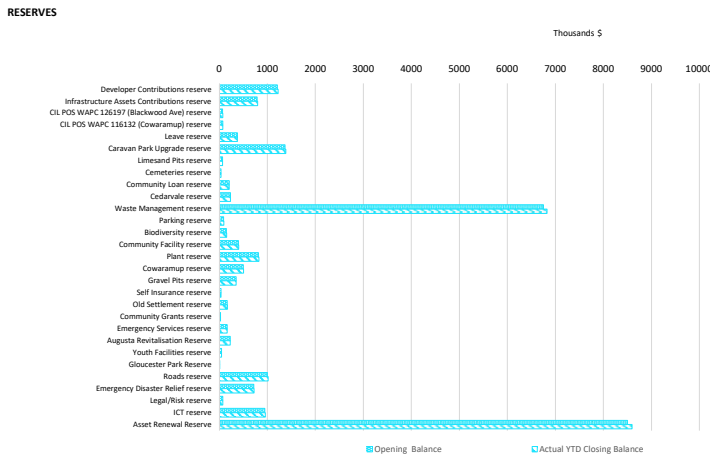
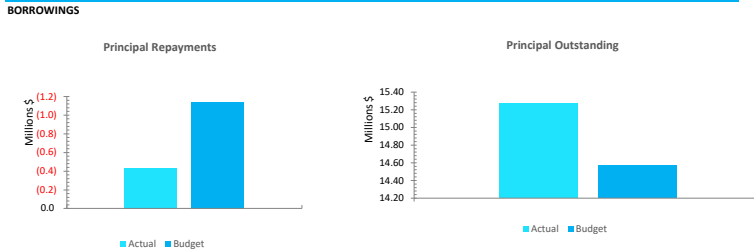
OPERATING ACTIVITIES



INVESTING ACTIVITIES



FINANCING ACTIVITIES



This information is to be read in conjunction with the accompanying Financial Statements and Notes.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MONTHLY FINANCIAL REPORT
FOR THE PERIOD ENDED 30 NOVEMBER 2022

EXECUTIVE SUMMARY

Funding surplus / (deficit) Components

Funding surplus / (deficit)				
	Amended Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
Opening	\$4.28 M	\$4.28 M	\$4.50 M	\$0.22 M
Closing	(\$0.00 M)	\$17.37 M	\$22.49 M	\$5.12 M

Refer to Statement of Financial Activity

Cash and cash equivalents		
	\$47.07 M	% of total
Unrestricted Cash	\$13.16 M	28.0%
Restricted Cash	\$33.91 M	72.0%

Refer to Note 2 - Cash and Financial Assets

Payables		
	\$0.29 M	% Outstanding
Trade Payables	\$0.13 M	
0 to 30 Days		99.5%
Over 30 Days		0.5%
Over 90 Days		0%

Refer to Note 5 - Payables

Receivables		
	\$0.45 M	% Collected
Rates Receivable	\$8.48 M	72.7%
Trade Receivable	\$0.45 M	% Outstanding
Over 30 Days		52.0%
Over 90 Days		47.4%

Refer to Note 3 - Receivables

Key Operating Activities

Amount attributable to operating activities			
Amended Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
\$4.18 M	\$17.29 M	\$19.58 M	\$2.29 M

Refer to Statement of Financial Activity

Rates Revenue		
YTD Actual	\$24.85 M	% Variance
YTD Budget	\$24.64 M	0.8%

Refer to Statement of Financial Activity

Operating Grants and Contributions		
YTD Actual	\$0.36 M	% Variance
YTD Budget	\$0.82 M	(55.7%)

Refer to Note 12 - Operating Grants and Contributions

Fees and Charges		
YTD Actual	\$7.23 M	% Variance
YTD Budget	\$6.90 M	4.8%

Refer to Statement of Financial Activity

Key Investing Activities

Amount attributable to investing activities			
Amended Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
(\$16.40 M)	(\$3.43 M)	(\$0.85 M)	\$2.58 M

Refer to Statement of Financial Activity

Proceeds on sale		
YTD Actual	\$0.05 M	%
Amended Budget	\$0.36 M	(86.6%)

Refer to Note 6 - Disposal of Assets

Asset Acquisition		
YTD Actual	\$2.66 M	% Spent
Amended Budget	\$24.13 M	(89.0%)

Refer to Note 7 - Capital Acquisitions

Capital Grants		
YTD Actual	\$0.96 M	% Received
Amended Budget	\$7.44 M	(87.1%)

Refer to Note 7 - Capital Acquisitions

Key Financing Activities

Amount attributable to financing activities			
Amended Budget	YTD Budget (a)	YTD Actual (b)	Var. \$ (b)-(a)
\$7.94 M	(\$0.77 M)	(\$0.75 M)	\$0.02 M

Refer to Statement of Financial Activity

Borrowings	
Principal repayments	\$0.44 M
Interest expense	\$0.26 M
Principal due	\$15.27 M

Refer to Note 8 - Borrowings

Reserves	
Reserves balance	\$25.67 M
Interest earned	\$0.29 M

Refer to Note 10 - Cash Reserves

Lease Liability	
Principal repayments	\$0.02 M
Interest expense	\$0.00 M
Principal due	\$0.09 M

Refer to Note 9 - Lease Liabilities

This information is to be read in conjunction with the accompanying Financial Statements and notes.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

KEY TERMS AND DESCRIPTIONS

FOR THE PERIOD ENDED 30 NOVEMBER 2022

NATURE OR TYPE DESCRIPTIONS

REVENUE

RATES

All rates levied under the *Local Government Act 1995*. Includes general, differential, specified area rates, minimum rates, interim rates, back rates, ex-gratia rates, less discounts and concessions offered. Excludes administration fees, interest on instalments, interest on arrears, service charges and sewerage rates.

OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS

Refers to all amounts received as grants, subsidies and contributions that are not non-operating grants.

NON-OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS

Amounts received specifically for the acquisition, construction of new or the upgrading of identifiable non financial assets paid to a local government, irrespective of whether these amounts are received as capital grants, subsidies, contributions or donations.

REVENUE FROM CONTRACTS WITH CUSTOMERS

Revenue from contracts with customers is recognised when the local government satisfies its performance obligations under the contract.

FEES AND CHARGES

Revenues (other than service charges) from the use of facilities and charges made for local government services, sewerage rates, rentals, hire charges, fee for service, photocopying charges, licences, sale of goods or information, fines, penalties and administration fees. Local governments may wish to disclose more detail such as rubbish collection fees, rental of property, fines and penalties, and other fees and charges.

SERVICE CHARGES

Service charges imposed under *Division 6 of Part 6 of the Local Government Act 1995. Regulation 54 of the Local Government (Financial Management) Regulations 1996* identifies these as television and radio broadcasting, underground electricity and neighbourhood surveillance services. Exclude rubbish removal charges.

INTEREST EARNINGS

Interest and other items of a similar nature received from bank and investment accounts, interest on rate instalments, interest on rate arrears and interest on debtors.

OTHER REVENUE / INCOME

Other revenue, which can not be classified under the above headings, includes dividends, discounts, rebates, reimbursements etc.

PROFIT ON ASSET DISPOSAL

Excess of assets received over the net book value for assets on their disposal.

EXPENSES

EMPLOYEE COSTS

All costs associated with the employment of person such as salaries, wages, allowances, benefits such as vehicle and housing, superannuation, employment expenses, removal expenses, relocation expenses, worker's compensation insurance, training costs, conferences, safety expenses, medical examinations, fringe benefit tax, etc.

MATERIALS AND CONTRACTS

All expenditures on materials, supplies and contracts not classified under other headings. These include supply of goods and materials, legal expenses, maintenance agreements, communication expenses, advertising expenses, membership, periodicals, publications, hire expenses, rental, postage and freight etc. Local governments may wish to disclose more detail such as contract services, consultancy, information technology, rental or lease expenditures.

UTILITIES (GAS, ELECTRICITY, WATER)

Expenditures made to the respective agencies for the provision of power, gas or water. Exclude expenditures incurred for the reinstatement of roadwork on behalf of these agencies.

INSURANCE

All insurance other than worker's compensation and health benefit insurance included as a cost of employment.

LOSS ON ASSET DISPOSAL

Shortfall between the value of assets received over the net book value for assets on their disposal.

DEPRECIATION ON NON-CURRENT ASSETS

Depreciation expense raised on all classes of assets. Excluding Land.

INTEREST EXPENSES

Interest and other costs of finance paid, including costs of finance for loan debentures, overdraft accommodation and refinancing expenses.

OTHER EXPENDITURE

Statutory fees, taxes, allowance for impairment of assets, member's fees or State taxes. Donations and subsidies made to community groups.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

BY NATURE OR TYPE

Ref	Amended Budget	YTD Budget	YTD Actual	Forecast 30 June 2023 Closing	Variance \$	Variance % ((c) - (b))/(b)	Var.
	\$	\$	\$	\$	\$	%	
1(c)	4,278,140	4,278,140	4,501,954	4,501,954	223,814	5.23%	
Opening funding surplus / (deficit)							
Revenue from operating activities							
	24,765,001	24,643,501	24,846,289	24,967,789	202,788	0.82%	
	2,498,725	978,522	693,090	2,213,293	(285,432)	(29.17%)	▼
12	11,019,764	6,903,717	7,233,269	11,349,316	329,552	4.77%	
	553,500	299,000	493,632	748,132	194,632	65.09%	▲
	39,750	37,600	8,931	11,081	(28,669)	(76.25%)	▼
	19,149	45,000	47,680	21,829	2,680	5.96%	
6	38,895,889	32,907,340	33,322,891	39,311,440	415,551	1.26%	
Expenditure from operating activities							
	(17,882,010)	(7,630,355)	(7,042,025)	(17,293,680)	588,330	7.71%	
	(13,151,569)	(5,797,728)	(4,485,470)	(11,839,311)	1,312,258	22.63%	▲
	(836,468)	(335,544)	(315,144)	(816,068)	20,400	6.08%	
	(10,762,757)	(4,511,512)	(5,233,513)	(11,484,758)	(722,001)	(16.00%)	▼
	(646,424)	(265,032)	(217,206)	(598,598)	47,826	18.05%	▲
	(846,538)	(842,600)	(945,686)	(949,624)	(103,086)	(12.23%)	▼
	(1,332,289)	(696,795)	(745,934)	(1,381,428)	(49,139)	(7.05%)	
6	(45,440)	0	0	(45,440)	0	0.00%	
	(45,503,495)	(20,079,566)	(18,984,978)	(44,408,907)	1,094,588	(5.45%)	
Non-cash amounts excluded from operating activities							
1(a)	10,789,048	4,466,512	5,241,909	11,564,445	775,397	17.36%	▲
Amount attributable to operating activities							
	4,181,442	17,294,286	19,579,822	6,466,978	2,285,536	13.22%	
Investing activities							
13	7,404,543	2,411,269	1,760,511	6,753,785	(650,758)	(26.99%)	▼
6	356,600	0	47,680	404,280	47,680	0.00%	▲
	(30,372)	0	0	(30,372)	0	0.00%	
7	(24,128,198)	(5,844,040)	(2,656,500)	(20,940,657)	3,187,540	54.54%	▲
Amount attributable to investing activities							
	(16,397,427)	(3,432,771)	(848,309)	(13,812,964)	2,584,462	(75.29%)	
Financing Activities							
10	10,256,261	0	(3,657)	10,252,604	(3,657)	0.00%	
9	(109,717)	(46,932)	(20,100)	(82,885)	26,832	57.17%	▲
8	(1,138,730)	(436,818)	(436,095)	(1,138,007)	723	0.17%	
10	(1,069,969)	(286,277)	(286,277)	(1,069,969)	0	0.00%	
Amount attributable to financing activities							
	7,937,845	(770,027)	(746,129)	7,961,743	23,898	(3.10%)	
1(c)	(0)	17,369,628	22,487,339	5,117,711	5,117,711	(29.46%)	▲
Closing funding surplus / (deficit)							

KEY INFORMATION

▲ ▼ Indicates a variance between Year to Date (YTD) Budget and YTD Actual data as per the adopted materiality threshold.

Refer to Note 16 for an explanation of the reasons for the variance.

This statement is to be read in conjunction with the accompanying Financial Statements and Notes.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**MONTHLY FINANCIAL REPORT
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

BASIS OF PREPARATION

BASIS OF PREPARATION

The financial report has been prepared in accordance with Australian Accounting Standards (as they apply to local governments and not-for-profit entities) and interpretations of the Australian Accounting Standards Board, and the *Local Government Act 1995* and accompanying Regulations.

The *Local Government Act 1995* and accompanying Regulations take precedence over Australian Accounting Standards where they are inconsistent.

The *Local Government (Financial Management) Regulations 1996* specify that vested land is a right-of-use asset to be measured at cost, and is considered a zero cost concessionary lease. All right-of-use assets under zero cost concessionary leases are measured at zero cost rather than at fair value, except for vested improvements on concessionary land leases such as roads, buildings or other infrastructure which continue to be reported at fair value, as opposed to the vested land which is measured at zero cost. The measurement of vested improvements at fair value is a departure from AASB 16 which would have required the to measure any vested improvements at zero cost.

Accounting policies which have been adopted in the preparation of this financial report have been consistently applied unless stated otherwise. Except for cash flow and rate setting information, the financial report has been prepared on the accrual basis and is based on historical costs, modified, where applicable, by the measurement at fair value of selected non-current assets, financial assets and liabilities.

THE LOCAL GOVERNMENT REPORTING ENTITY

All funds through which the controls resources to carry on its functions have been included in the financial statements forming part of this financial report.

All monies held in the Trust Fund are excluded from the financial statements. A separate statement of those monies appears at Note 14 to these financial statements.

SIGNIFICANT ACCOUNTING POLICES

CRITICAL ACCOUNTING ESTIMATES

The preparation of a financial report in conformity with Australian Accounting Standards requires management to make judgements, estimates and assumptions that effect the application of policies and reported amounts of assets and liabilities, income and expenses.

The estimates and associated assumptions are based on historical experience and various other factors believed to be reasonable under the circumstances; the results of which form the basis of making the judgements about carrying values of assets and liabilities not readily apparent from other sources. Actual results may differ from these estimates.

The balances, transactions and disclosures impacted by accounting estimates are as follows:

- estimation of fair values of certain financial assets
- estimation of fair values of fixed assets shown at fair value
- impairment of financial assets

GOODS AND SERVICES TAX

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Australian Taxation Office (ATO). Receivables and payables are stated inclusive of GST receivable or payable. The net amount of GST recoverable from, or payable to, the ATO is included with receivables or payables in the statement of financial position. Cash flows are presented on a gross basis. The GST components of cash flows arising from investing or financing activities which are recoverable from, or payable to, the ATO are presented as operating cash flows.

ROUNDING OFF FIGURES

All figures shown in this statement are rounded to the nearest dollar.

PREPARATION TIMING AND REVIEW

Date prepared: All known transactions up to 30 November 2022

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

NOTE 1
STATEMENT OF FINANCIAL ACTIVITY INFORMATION

(a) Non-cash items excluded from operating activities

The following non-cash revenue and expenditure has been excluded from operating activities within the Statement of Financial Activity in accordance with *Financial Management Regulation 32*.

	Notes	Amended Budget	YTD Budget (a)	YTD Actual (b)	Forecast 30 June 2023 Closing
		\$	\$	\$	
Non-cash items excluded from operating activities					
Adjustments to operating activities					
Less: Profit on asset disposals	6	(19,149)	(45,000)	8,396	34,247
Add: Loss on asset disposals	6	45,440	0	0	45,440
Add: Depreciation on assets		10,762,756	4,511,512	5,233,513	11,484,757
Total non-cash items excluded from operating activities		10,789,048	4,466,512	5,241,909	11,564,445

(b) Adjustments to net current assets in the Statement of Financial Activity

The following current assets and liabilities have been excluded from the net current assets used in the Statement of Financial Activity in accordance with *Financial Management Regulation 32* to agree to the surplus/(deficit) after imposition of general rates.

	Amended Budget Opening 30 June 2022	Last Year Closing 30 June 2022	Year to Date 30 November 2022
Adjustments to net current assets			
Less: Reserves - restricted cash	10 (25,378,153)	(25,378,153)	(25,668,087)
Less: Financial assets at amortised cost - self supporting loans	4 0	(29,628)	(29,628)
Add: Current portion of borrowings	8 1,182,488	1,138,727	701,909
Add: Current portion of contract liability held in reserve		1,172,873	1,172,873
Add: Current portion of lease liabilities	9 63,591	63,591	63,591
Add: Current portion of other provisions	11 0	500,000	500,000
Add: Leave component backed by cash reserve	11 0	374,023	374,023
Add: Leave component not required to be funded	11 0	815,686	815,686
Add: Movement to adjustments to opening balances		0	0
Total adjustments to net current assets	(24,132,074)	(21,342,881)	(22,069,633)

(c) Net current assets used in the Statement of Financial Activity

Current assets			
Cash and cash equivalents	2 7,109,239	8,855,404	9,071,100
Financial assets at amortised cost	2 26,522,629	26,532,629	38,003,001
Rates and services receivables	3 0	729,552	8,477,309
Receivables	3 3,344,983	1,463,684	452,584
Inventories		65,649	69,609
Other current assets	4 65,648	343,383	541,187
Less: Current liabilities			
Payables	5 (490,383)	(4,319,753)	(293,294)
Borrowings	8 (1,182,488)	(1,138,727)	(701,909)
Other liabilities	11 (3,919,264)	(3,678,387)	(8,076,882)
Lease liabilities	9 (63,591)	(63,591)	(63,591)
Employee related provisions	11 (2,976,559)	(2,445,007)	(2,422,142)
Other provisions		(500,000)	(500,000)
Less: Total adjustments to net current assets	1(b) (24,132,074)	(21,342,881)	(22,069,633)
Closing funding surplus / (deficit)	4,278,140	4,501,954	22,487,339

CURRENT AND NON-CURRENT CLASSIFICATION

In the determination of whether an asset or liability is current or non-current, consideration is given to the time when each asset or liability is expected to be settled. Unless otherwise stated assets or liabilities are classified as current if expected to be settled within the next 12 months, being the Council's operational cycle.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**OPERATING ACTIVITIES
NOTE 2
CASH AND FINANCIAL ASSETS**

Description	Classification	Unrestricted	Restricted	Total Cash	Trust	Institution	Interest Rate	Maturity Date
		\$	\$	\$	\$			
Cash Advances	Cash and Cash Equivalents	(200)	9,350	9,150				
Cash at Bank - BWA Muni	Cash and Cash Equivalents	5,590,965	0	5,590,965				
Cash at Bank - BBL Augusta	Cash and Cash Equivalents	838,955	0	838,955				
Trust Fund Bank	Cash and Cash Equivalents	0	153,000	153,000	153,000			
Cash at Bank - Bonds	Cash and Cash Equivalents	0	2,479,030	2,479,030				
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	1,003,001	1,003,001		Bendigo Bank	0.70%	2/04/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,500,000	2,500,000		NAB	1.15%	4/10/2022
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,000,000	2,000,000		CBA	1.07%	5/10/2022
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	4,000,000	4,000,000		NAB	3.67%	27/01/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,500,000	2,500,000		Bank of Queensland	3.35%	27/01/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,500,000	2,500,000		AMP	3.05%	12/12/2022
Cash on Deposit - Term Deposits	Financial assets at amortised cost	5,500,000	0	5,500,000		NAB	3.10%	4/01/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,000,000	2,000,000		CBA	3.15%	28/12/2022
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	1,000,000	1,000,000		AMP	3.05%	4/01/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,500,000	2,500,000		NAB	3.60%	14/03/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	4,000,000	4,000,000		CBA	3.17%	13/12/2022
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	4,000,000	4,000,000		CBA	3.35%	13/01/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	0	2,500,000	2,500,000		CBA	3.57%	14/02/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	230,885	769,115	1,000,000		BOQ	3.60%	14/03/2023
Cash on Deposit - Term Deposits	Financial assets at amortised cost	1,000,000	0	1,000,000		P&N	3.53%	14/03/2023
Total		13,160,605	33,913,496	47,074,101	153,000			
Comprising								
Cash and cash equivalents		6,429,720	2,641,380	9,071,100	153,000			
Financial assets at amortised cost		6,730,885	31,272,116	38,003,001	0			
		13,160,605	33,913,496	47,074,101	153,000			

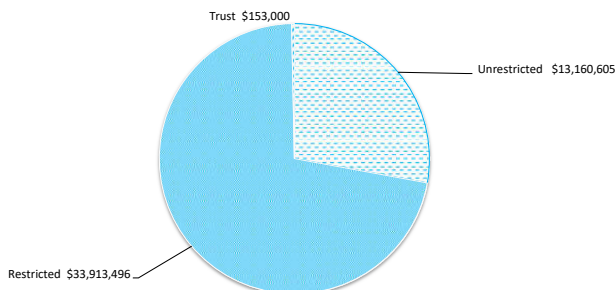
KEY INFORMATION

Cash and cash equivalents include cash on hand, cash at bank, deposits available on demand with banks and other short term highly liquid investments with original maturities of three months or less that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. Bank overdrafts are reported as short term borrowings in current liabilities in the statement of net current assets.

The local government classifies financial assets at amortised cost if both of the following criteria are met:

- the asset is held within a business model whose objective is to collect the contractual cashflows, and
- the contractual terms give rise to cash flows that are solely payments of principal and interest.

Financial assets at amortised cost held with registered financial institutions are listed in this note other financial assets at amortised cost are provided in Note 4 - Other assets.

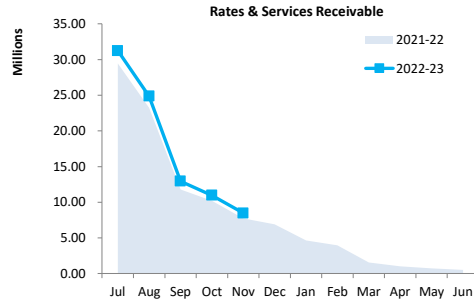


**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**OPERATING ACTIVITIES
NOTE 3
RECEIVABLES**

Rates & Services Receivable	30 Jun 2022	30 Nov 2022
	\$	\$
Opening arrears previous years	526,071	453,714
Levied this year	29,054,521	30,778,509
Less - collections to date	<u>(29,070,466)</u>	<u>(22,698,502)</u>
Gross rates collectable	510,126	8,533,721
Allowance for impairment of rates receivable	(56,412)	(56,412)
Net rates collectable	453,714	8,477,309
% Collected	98.3%	72.7%



Receivables - general	Credit	Current	30 Days	60 Days	90+ Days	Total
	\$	\$	\$	\$	\$	\$
Receivables - Sundry	(926)	129,231	9,112	3,083	126,712	267,211
Percentage	(0.3%)	48.4%	3.4%	1.2%	47.4%	
Balance per trial balance						
Sundry Debtors						267,211
GST Receivable						181,391
Unallocated - Caravan Parks						3,983
Total receivables general outstanding						452,584

KEY INFORMATION

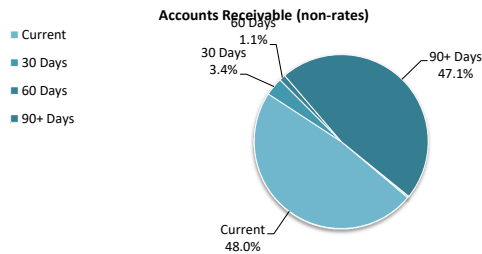
Trade and other receivables include amounts due from ratepayers for unpaid rates and service charges and other amounts due from third parties for goods sold and services performed in the ordinary course of business.

Trade receivables are recognised at original invoice amount less any allowances for uncollectable amounts (i.e. impairment). The carrying amount of net trade receivables is equivalent to fair value as it is due for settlement within 30 days.

Classification and subsequent measurement

Receivables which are generally due for settlement within 30 days except rates receivables which are expected to be collected within 12 months are classified as current assets. All other receivables such as, deferred pensioner rates receivable after the end of the reporting period are classified as non-current assets.

Trade and other receivables are held with the objective to collect the contractual cashflows and therefore the measures them subsequently at amortised cost using the effective interest rate method.



SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

OPERATING ACTIVITIES
NOTE 4
OTHER CURRENT ASSETS

Other current assets	Opening Balance 1 July 2022	Asset Increase	Asset Reduction	Closing Balance 30 November 2022
	\$	\$	\$	\$
Current portion of other financial assets at amortised cost				
Financial assets at amortised cost - interest free loans				0
IFL - Margaret River Tennis Club Inc	3,905	0	0	3,905
IFL - Margaret River Bowling Club	8,000	0	0	8,000
IFL - MR Community Resource Centre	5,000	0	0	5,000
IFL - Margaret River Men's Shed	10,000	0	0	10,000
IFL - Augusta Margaret River Districts Football Club	2,000	0	0	2,000
IFL - Gracetown Tennis Club	723	(723)	0	0
Inventory				
Stock on Hand	65,649	0	0	65,649
Stock Allocated wks & ser	0		(59,787)	(59,787)
Stock Purchases - Inventories	0	75,044	0	75,044
Other Assets				
Prepayments	104,478	0	(100,658)	3,820
Accrued Income - General Financing	31,904	0	(31,904)	0
S/DR-Accrual-Investment Interest	50,183	231,851	0	282,034
Contract assets				
Contract assets	156,818	0	0	156,818
Total other current assets	438,660	294,876	(192,349)	541,187

Amounts shown above include GST (where applicable)

KEY INFORMATION

Other financial assets at amortised cost

The classifies financial assets at amortised cost if both of the following criteria are met:

- the asset is held within a business model whose objective is to collect the contractual cashflows, and
- the contractual terms give rise to cash flows that are solely payments of principal and interest.

Inventory

Inventories are measured at the lower of cost and net realisable value.

Net realisable value is the estimated selling price in the ordinary course of business less the estimated costs of completion and the estimated costs necessary to make the sale.

Contract assets

A contract asset is the right to consideration in exchange for goods or services the entity has transferred to a customer when that right is conditioned on something other than the passage of time.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

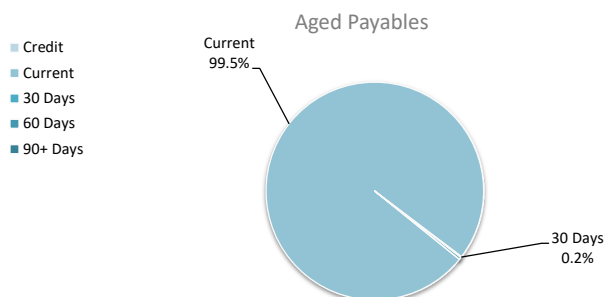
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

OPERATING ACTIVITIES
NOTE 5
PAYABLES

Payables - general	Credit	Current	30 Days	60 Days	90+ Days	Total
	\$	\$	\$	\$	\$	\$
Payables - general	0	129,595	218	454	0	130,268
Percentage	0%	99.5%	0.2%	0.3%	0%	
Balance per trial balance						
Sundry Creditors						130,268
Sundry Creditors - Retentions						36,640
Accrued FBT						(1,233)
Payroll Creditors						11
Total payables general outstanding						293,294

KEY INFORMATION

Trade and other payables represent liabilities for goods and services provided to the Shire prior to the end of the period that are unpaid and arise when the Shire becomes obliged to make future payments in respect of the purchase of these goods and services. The amounts are unsecured, are recognised as a current liability and are normally paid within 30 days of recognition. The carrying amounts of trade and other payables are considered to be the same as their fair values, due to their short-term nature.

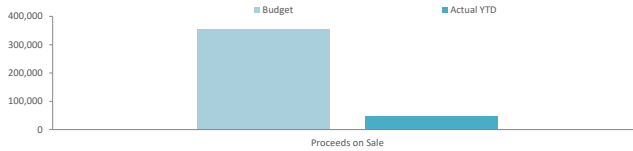


**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

**OPERATING ACTIVITIES
NOTE 6
DISPOSAL OF ASSETS**

Asset Ref.	Asset description	Budget				YTD Actual			
		Net Book Value	Proceeds	Profit	(Loss)	Net Book Value	Proceeds	Profit	(Loss)
		\$	\$	\$	\$	\$	\$	\$	\$
Plant and equipment									
	Replace AU27699 Nissan UD GW470 6 wheel tip truck BRIGGS	45,000	45,000	0	0	0	0	0	0
	Replace 2020 Kubota ZD221-94 Zero Turn Mower	7,000	7,000	0	0	0	0	0	0
	Replace 2018 Peruzzo Elk Flail Mower (Mulcher)	3,539	2,000	0	(1,539)	0	0	0	0
	Replace JCB Telehandler 531-70	54,445	33,300	0	(21,145)	0	0	0	0
	Replace Caterpillar 259B3AC Skid Steer Loader	40,000	25,300	0	(14,700)	0	0	0	0
	Replace Isuzu Truck NLR200 4x2 MY13 Short Tipper	28,222	28,000	0	(222)	0	0	0	0
	Replace Isuzu Truck NLR45	25,778	25,000	0	(778)	0	0	0	0
	Replace Isuzu NPR55-155AMT Tip Truck	33,846	30,000	0	(3,846)	0	0	0	0
	Replace AU31529 2017 Ford Escape ZG AWD Trend Wagon 2.0lt Turbo Diesel Automatic with hybrid	15,556	15,000	0	(556)	0	0	0	0
	Dispose AU31385 2017 Mitsubishi ASX LS AWD MY17 - don't replace	13,778	13,000	0	(778)	0	0	0	0
	Replace AU31386 2017 Mitsubishi ASX LS AWD MY17 - replace with hybrid	13,778	13,000	0	(778)	0	0	0	0
	Replace AU30961 2017 Nissan Navara SL dual cab 4x4	16,667	20,000	3,333	0	0	0	0	0
	Replace AU30962 2017 Nissan Navara SL Dual Cab 4x4	16,667	20,000	3,333	0	0	0	0	0
	Replace AU30964 2017 Nissan Navara Tray Top	21,099	20,000	0	(1,099)	0	0	0	0
	Replace AU30966 2017 Nissan Navara Dual Cab Tray top 4X4	16,649	20,000	3,351	0	0	0	0	0
	Replace AU30967 2017 Nissan Navara SL Dual Cab 4x4	16,649	20,000	3,351	0	0	0	0	0
	Dispose AU30716 Toyota Camry Altise Hybrid Sedan - don't replace	14,220	20,000	5,780	0	0	0	0	0
	AS4161 - AU29887 04/14, Ford, Ranger	0	0	0	0	14,284	14,378	94	0
	AS4162 - AU29651 02/14, Ford, Ranger	0	0	0	0	10,000	10,515	515	0
	AS128 - AU31360 (unregistered) 10/16, Isuzu, D-MA	0	0	0	0	15,000	22,787	7,787	0
		382,892	356,600	19,149	(45,440)	39,284	47,680	8,396	0



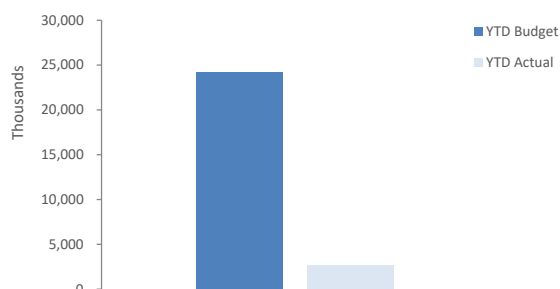
SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

INVESTING ACTIVITIES
NOTE 7
CAPITAL ACQUISITIONS

Capital acquisitions	Amended		YTD Actual	Forecast 30 June Closing	YTD Actual Variance
	Budget	YTD Budget			
	\$	\$	\$		\$
Buildings	11,342,672	2,355,432	584,296	9,571,536	(1,771,136)
Furniture and Equipment	348,030	318,030	4,024	34,024	(314,006)
Plant and equipment	1,610,687	312,387	119,636	1,417,936	(192,751)
Infrastructure Assets - Other	9,986,809	2,718,191	1,874,044	9,142,662	(844,147)
Infrastructure - Caravan & Camping	110,000	110,000	56,445	56,445	(53,555)
Payments for Capital Acquisitions	24,128,198	5,844,040	2,656,500	20,940,657	(3,187,540)
Capital Acquisitions Funded By:					
	\$	\$	\$		\$
Capital grants and contributions	7,438,149	2,411,269	962,425	6,753,785	(1,448,844)
Borrowings	8,000,000	0	0	0	0
Other (disposals & C/Fwd)	0	0	47,680	404,280	47,680
Cash backed reserves	1,687,530	0	0	0	0
Contributions	20,000	0	0	20,000	0
Carryover	2,186,532	0	(3,657)	2,182,875	(3,657)
General Revenue	4,795,987	3,432,771	1,646,394	3,009,610	(1,786,377)
Capital funding total	24,128,198	5,844,040	2,652,843	12,370,550	(3,191,197)

Payments for Capital Acquisitions



SIGNIFICANT ACCOUNTING POLICIES

Each class of fixed assets within either plant and equipment or infrastructure, is carried at cost or fair value as indicated less, where applicable, any accumulated depreciation and impairment losses.

Assets for which the fair value as at the date of acquisition is under \$5,000 are not recognised as an asset in accordance with *Financial Management Regulation 17A (5)*. These assets are expensed immediately.

Where multiple individual low value assets are purchased together as part of a larger asset or collectively forming a larger asset exceeding the threshold, the individual assets are recognised as one asset and capitalised.

Initial recognition and measurement for assets held at cost

Plant and equipment including furniture and equipment is recognised at cost on acquisition in accordance with *Financial Management Regulation 17A*. Where acquired at no cost the asset is initially recognise at fair value. Assets held at cost are depreciated and assessed for impairment annually.

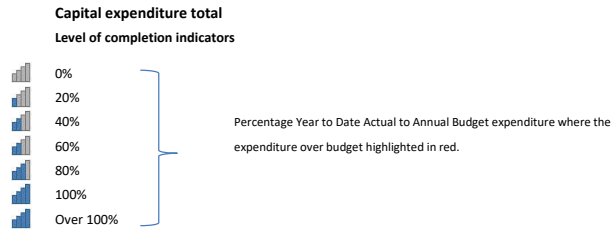
Initial recognition and measurement between mandatory revaluation dates for assets held at fair value

In relation to this initial measurement, cost is determined as the fair value of the assets given as consideration plus costs incidental to the acquisition. For assets acquired at zero cost or otherwise significantly less than fair value, cost is determined as fair value at the date of acquisition. The cost of non-current assets constructed by the Shire includes the cost of all materials used in construction, direct labour on the project and an appropriate proportion of variable and fixed overheads.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

INVESTING ACTIVITIES
NOTE 7
CAPITAL ACQUISITIONS (CONTINUED)



Level of completion indicator, please see table at the end of this note for further detail.

	Account Description	Amended		YTD Actual	Variance (Under)/Over
		Budget	YTD Budget		
		\$	\$	\$	\$
AC97	Furniture & Equipment - MR Aquatic Centre	8,000	0	0	0
AR88	Land and Buildings - Augusta Recreation	8,500	8,500	0	-8500
CC88	Buildings - HEART	75,000	75,000	4,024	-70975.7
CC97	Furniture & Equipment - HEART	61,000	61,000	0	-61000
CD89	Infrastructure - Community Planning & Development	0	0	3,732	3732
CR94	Infrastructure Upgrades - Construction	1,090,000	190,526	85,680	-104845.72
CR95	Infrastructure Renewals - Construction	7,884,394	2,219,238	1,689,327	-529911.2
FC89	Building - MR Fitness Centre	11,500	0	0	0
FP89	Infrastructure - Fire Prevention	14,327	14,327	0	-14327
GD89	Infrastructure Assets - Parks & Gardens	594,988	46,000	35,158	-10841.58
GP88	Land and Buildings - Gloucester Park	60,000	0	197	196.94
GP89	Infrastructure - Gloucester Park	210,000	125,000	0	-125000
HA88	Buildings - Community Buildings	1,035,672	415,000	114,124	-300875.99
HA89	Infrastructure - Community Buildings	32,000	32,000	5,076	-26923.95
IR88	Buildings - MR Indoor Recreation	30,000	30,000	14,300	-15700
IR97	Furniture & Equipment - MR Indoor Recreation	15,000	0	0	0
IT89	ICT - Infrastructure - ICT	7,000	0	0	0
IT97	Furniture & Equipment - ICT	182,030	182,030	0	-182030
MP88	Buildings - Major Projects	10,175,000	1,869,932	450,796	-1419136.08
RG89	Infrastructure - Rangers	50,000	0	0	0
RP93	Plant & Equipment - Plant Program	1,576,360	278,060	119,636	-158423.79
TU89	Infrastructure - Caravan Parks (TU)	110,000	110,000	56,445	-53555.29
TY89	Infrastructure Assets - Asset Services	147,427	137,427	59,950	-77477
		24,128,198	5,844,040	2,656,500	(3,187,540)

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**FINANCING ACTIVITIES
NOTE 8
BORROWINGS**

Repayments - borrowings

Information on borrowings Particulars	Loan No.	1 July 2022 \$	New Loans		Principal Repayments		Principal Outstanding		Interest Repayments	
			Actual \$	Budget \$	Actual \$	Budget \$	Actual \$	Budget \$	Actual \$	Budget \$
Governance										
Civic and Administration Building	191	4,452,473	0	0	(91,576)	(373,431)	4,360,897	4,079,042	(57,326)	(57,326)
Recreation and culture										
Cowaramup Recreation	174	72,915	0	0	(20,018)	(40,677)	52,897	32,238	(2,161)	(1,159)
MIR Recreation Centre	187	93,880	0	0	(11,066)	(45,386)	82,814	48,494	(1,568)	(4,957)
HEART	192	860,078	0	0	(32,395)	(65,358)	827,683	794,720	(14,825)	(7,483)
MR Youth Precinct	193	205,230	0	0	(17,308)	(34,874)	187,922	170,356	(2,984)	(1,524)
Asbestos Removal	194	637,765	0	0	(48,614)	(98,008)	589,151	539,757	(10,011)	(5,102)
HEART	195	404,641	0	0	(7,247)	(29,354)	397,394	375,287	(3,389)	
Building Projects	196	734,179	0	0	(38,325)	(76,928)	695,855	657,251	(5,260)	(2,665)
Aquatic Centre	197	8,000,000	0	0	(131,938)	(267,967)	7,868,062	7,732,033	(159,953)	(79,306)
Economic services										
Augusta RTC	173	116,331	0	0	(22,869)	(60,623)	93,462	55,708	(2,655)	(1,854)
Gnarabup Café	179	66,286	0	0	(7,834)	(32,093)	58,452	34,193	(1,059)	(1,059)
Gnarabup Café	181	61,712	0	0	(6,907)	(14,031)	54,805	47,681	(1,866)	(960)
Total		15,705,490	0	0	(436,095)	(1,138,730)	15,269,395	14,566,760	(263,055)	(163,394)
Current borrowings		1,138,727					701,909			
Non-current borrowings		14,566,763					14,567,486			
		15,705,490					15,269,395			

All debenture repayments were financed by general purpose revenue.

The has no unspent debenture funds as at 30th June 2021, nor is it expected to have unspent funds as at 30th June 2022.

KEY INFORMATION

Borrowing costs are recognised as an expense when incurred except where they are directly attributable to the acquisition, construction or production of a qualifying asset. Where this is the case, they are capitalised as part of the cost of the particular asset until such time as the asset is substantially ready for its intended use or sale.

Fair values of borrowings are not materially different to their carrying amounts, since the interest payable on those borrowings is either close to current market rates or the borrowings are of a short term nature. Non-current borrowings fair values are based on discounted cash flows using a current borrowing rate.

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022

FINANCING ACTIVITIES
NOTE 9
LEASE LIABILITIES

Movement in carrying amounts

Information on leases Particulars	Lease No.	1 July 2022	New Leases		Principal Repayments		Principal Outstanding		Interest Repayments	
			Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget
		\$	\$	\$	\$	\$	\$	\$	\$	
Governance										
Postage Meter (Records)	7OID-04644721	22,850			(2,007)	(5,716)	20,843	17,134		(84)
A0 Printer/Plotter	1000144145	25,666			(3,480)	(9,739)	22,186	15,927		(205)
Law, order, public safety										
CESM Ute - Extension	923351	35,910			(4,641)	(13,537)	31,269	22,373		(113)
CESM Ute POD	923350	11,806			(1,768)	(5,151)	10,038	6,655		(96)
Transport										
CAT Wheel Loader	312334	0					0	0		
CAT Wheel Loader - Extension	1021834	18,369			(8,204)	(18,369)	10,165	0		(58)
Patching Truck	RFQ082005	0		445,193		(57,205)	0	387,988		(1,039)
Total		114,601	0	445,193	(20,100)	(109,717)	94,501	450,077	0	(1,595)
Current lease liabilities		63,591					43,491			
Non-current lease liabilities		51,010					51,010			
		114,601					94,501			

All lease repayments were financed by general purpose revenue.

KEY INFORMATION

At inception of a contract, the assesses if the contract contains or is a lease. A contract is or contains a lease, if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. At the commencement date, a right of use asset is recognised at cost and lease liability at the present value of the lease payments that are not paid at that date. The lease payments are discounted using that date. The lease payments are discounted using the interest rate implicit in the lease, if that rate can be readily determined. If that rate cannot be readily determined, the uses its incremental borrowing rate.

All contracts classified as short-term leases (i.e. a lease with a remaining term of 12 months or less) and leases of low value assets are recognised as an operating expense on a straight-line basis over the term of the lease.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**OPERATING ACTIVITIES
NOTE 10
RESERVE ACCOUNTS**

Reserve accounts

Reserve name	Opening Balance	Budget Interest Earned	Actual Interest Earned	Budget Transfers In (+)	Actual Transfers In (+)	Budget Transfers Out (-)	Actual Transfers Out (-)	Budget Closing Balance	Actual YTD Closing Balance
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Restricted by Legislation									
Developer Contributions reserve	1,208,853	14,150	13,639	288,000	0	(243,326)	0	1,267,677	1,222,492
Infrastructure Assets Contributions reserve	786,663	9,208	8,877	0	0	0	3,657	795,871	799,197
CIL POS WAPC 126197 (Blackwood Ave) reserve	68,854	806	777	0	0	0	0	69,660	69,631
CIL POS WAPC 116132 (Cowaramup) reserve	70,137	821	792	0	0	0	0	70,958	70,929
Restricted by Council									
Leave reserve	374,023	4,378	4,220	0	0	0	0	378,401	378,243
Caravan Park Upgrade reserve	1,370,541	10,190	15,464	110,000	0	0	0	1,490,731	1,386,005
Limesand Pits reserve	66,746	781	752	0	0	0	0	67,527	67,498
Cemeteries reserve	36,041	422	406	15,000	0	(15,000)	0	36,463	36,447
Community Loan reserve	205,455	2,405	2,317	19,628	0	(50,000)	0	177,488	207,772
Cedarvale reserve	229,348	2,685	2,588	0	0	0	0	232,033	231,936
Waste Management reserve	6,749,563	76,077	76,156	112,211	0	(700,000)	0	6,237,851	6,825,719
Parking reserve	90,410	1,058	1,021	0	0	0	0	91,468	91,431
Biodiversity reserve	148,672	1,740	1,678	0	0	0	0	150,412	150,350
Community Facility reserve	397,036	4,647	4,480	0	0	(50,000)	0	351,683	401,516
Plant reserve	812,956	9,516	9,172	170,628	0	(642,200)	0	350,900	822,128
Cowaramup reserve	497,146	5,819	5,609	0	0	(70,000)	0	432,965	502,755
Gravel Pits reserve	346,875	4,060	3,914	0	0	0	0	350,935	350,789
Self Insurance reserve	33,630	394	379	0	0	0	0	34,024	34,009
Recreation Centres reserve	24,106	282	271	750	0	0	0	25,138	24,377
Old Settlement reserve	164,698	1,928	1,858	36,800	0	0	0	203,426	166,556
Community Grants reserve	23,540	276	266	0	0	0	0	23,816	23,806
Emergency Services reserve	160,985	1,884	1,817	0	0	0	0	162,869	162,802
Augusta Revitalisation Reserve	225,635	2,641	2,546	0	0	(80,000)	0	148,276	228,181
Youth Facilities reserve	45,410	532	512	16,949	0	0	0	62,891	45,922
Gloucester Park Reserve	4,217	49	49	0	0	0	0	4,266	4,266
Roads reserve	1,002,737	5,884	11,315	0	0	0	0	1,008,621	1,014,052
Emergency Disaster Relief reserve	717,246	8,395	8,093	0	0	0	0	725,641	725,339
Legal/Risk reserve	72,410	848	818	20,000	0	(40,000)	0	53,258	73,228
ICT reserve	944,220	8,124	10,654	0	0	(365,735)	0	586,609	954,874
Asset Renewal Reserve	8,500,000	95,836	95,836	100,000	0	(8,000,000)	0	600,000	8,595,836
	25,378,153	180,000	286,277	889,966	0	(10,256,261)	3,657	16,191,858	25,668,087

SHIRE OF AUGUSTA MARGARET RIVER ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY FOR THE PERIOD ENDED 30 NOVEMBER 2022

OPERATING ACTIVITIES NOTE 10 RESERVE ACCOUNTS

RESERVES - Cash Backed - Purpose

In accordance with council resolutions in relation to each reserve account, the purpose for which the reserves are set aside are as follows:

Restricted by Legislation

Developer Contributions Reserve	Funds received and used in accordance with the Developer Contributions Plan.
Infrastructure Asset Reserve	To be used to fund future road and drainage maintenance and construction requirements.
Cash in Lieu of Public Open Space	Cash in lieu for development of public open space to be held in individual reserves for each subdivision.

Restricted by Council

Leave Reserve	To be used to fund annual and long service leave requirements.
Caravan Park Upgrade Reserve	To be used for the upgrading of Caravan Parks.
Limesand Pits Reserve	Rehabilitation and development of the Boranup, Redgate and any other Shire limesand pits.
Cemeteries Reserve	To be used for the upgrade of cemeteries.
Community Loan Reserve	Interest free funding for eligible groups involved with sporting and cultural activities.
Cedarvale Reserve	Funds allocated to meet Council's obligations in respect of the agreement with Cedarvale for the Gnarabup site and future foreshore rehabilitation required at Prevelly and Gnarabup.
Waste Management Reserve	To be used to fund future waste facility and plant requirements.
Parking Reserve	To be used to fund future car parking requirements.
Biodiversity Reserve	To be used for the funding of Biodiversity initiatives
Community Facility Reserve	To be used for the construction and major maintenance of buildings.
Plant Reserve	To be used for the purchase of plant, vehicles and equipment.
Cowaramup Reserve	Expenditure on capital and improvements of infrastructure within the Cowaramup Townsite and the area covered by the West Cowaramup Townsite Strategy as determined by the Shire.
Gravel Pits Reserve	Rehabilitation and development of the Shire's gravel and other related resource reserves.
Self Insurance Reserve	Used to fund self insurance, workers compensation performance risk, risk management and other related employee and organisational activities.
Recreation Centres Reserve	Income from advertising signs is reserved for future improvements to facilities.
Old Settlement Reserve	Income from the lease of this site is to be used for the maintenance of the site.
Community Grants Reserve	Funds received from the sale of vehicle licence plates, etc are provided as community grants.
Emergency Services Reserve	To be used to support the provision of emergency services in the Shire.
Augusta Revitalisation Reserve	To be used for funding capital projects in the Augusta town-site.
Youth Facilities Reserve	To be used to renew and develop youth facilities in the Shire.
Gloucester Park Reserve	To be used to fund facilities at Gloucester Park.
Roads Reserve	To be used for the renewal of rural and urban roads.
Emergency Disaster Relief Reserve	To provide funds for the Shire and community to respond to emergency events.
Legal/Risk Reserve	To provide funds for the Shire and community to assist with legal and risk matters.
ICT reserve	To provide funds for the replacement and upgrade of ICT software and hardware systems.
Asset Renewal Reserve	To provide funds for the renewal of the Shire's building and infrastructure assets.

The majority of the Reserves are not expected to be used within a set period as further transfers to the reserve accounts are expected as funds are available.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**OPERATING ACTIVITIES
NOTE 11
OTHER CURRENT LIABILITIES**

Other current liabilities	Note	Opening Balance 1 July 2022	Liability transferred (from)/to non current	Liability Increase	Liability Reduction	Closing Balance 30 November 2022
		\$		\$	\$	\$
Other liabilities						
- Contract liabilities		3,207,896	406,323	1,286,490	0	3,614,219
- Caravan Park Advance Bookings		470,487	384,540	0	99,422	855,027
- Loan Interest Accrued		43,761	(43,761)	0	(43,761)	0
- Community Art Events TRUST		3,308	0	0	0	3,308
- Bonds-Other		1,600	650	650	0	2,250
- TRANSWA Agency Trust		667	(405)	0	(147)	262
- Bonds-Roadworks		1,278,555	1,198,225	1,198,225	0	2,476,780
- DOT Licensing Trust		60,092	(41,246)	0	(41,246)	18,846
- Suspense Items		450	(534)	0	(1,986)	(84)
- HEART Ticketing sales		5,189	31,536	31,536	0	36,725
- BRB Levy		34,391	759	759	0	35,150
- ESL Levy Control		(27,125)	885,677	885,677	0	858,552
- Revenue Payment Suspense		3,207	(232)	0	(2,282)	2,975
- Paid Parental Leave Govt Scheme		4,827	(4,827)	(4,827)	0	0
- Packaged Computers		(1,254)	1,254	1,254	0	0
- Novated Leases		3,499	(29,534)	0	(24,851)	(26,035)
- Novated Leases(non gst)		0	29,510	21,348	0	29,510
- Salary Packaging Clearing account		0	(70,279)	0	(57,394)	(70,279)
- Salary Packaging (GST - Post Tax)		0	1,162	265	0	1,162
- Salary Packaging (NonGST-Pre Tax)		0	69,071	69,071	0	69,071
- Public Open Space		0	153,000	153,000	0	153,000
Total other liabilities		5,102,991	2,973,891	3,646,450	(72,245)	8,076,882
Employee Related Provisions						
Annual leave		1,438,290	27,458	27,458	0	1,465,748
Long service leave		871,824	(49,624)	(49,624)	0	822,200
Provision for Personal Leave Reward Scheme		134,893	(699)	0	(678)	134,194
Total Employee Related Provisions		2,445,007	(22,865)	(22,166)	(678)	2,422,142
Other Provisions						
Provision for Remediation Costs - Current		500,000	0	0	0	500,000
Total Other Provisions		500,000	0	0	0	500,000
Total other current liabilities		8,047,998	2,966,199	3,624,284	(72,923)	10,999,024
Amounts shown above include GST (where applicable)						
						Opening balance plus movement doesn't equal closing balance

A breakdown of contract liabilities and associated movements is provided on the following pages at Notes 12 & 13

KEY INFORMATION

Provisions

Provisions are recognised when the has a present legal or constructive obligation, as a result of past events, for which it is probable that an outflow of economic benefits will result and that outflow can be reliably measured. Provisions are measured using the best estimate of the amounts required to settle the obligation at the end of the reporting period.

Employee Related Provisions

Short-term employee benefits

Provision is made for the 's obligations for short-term employee benefits. Short-term employee benefits are benefits (other than termination benefits) that are expected to be settled wholly before 12 months after the end of the annual reporting period in which the employees render the related service, including wages, salaries and sick leave. Short-term employee benefits are measured at the (undiscounted) amounts expected to be paid when the obligation is settled.

The 's obligations for short-term employee benefits such as wages, salaries and sick leave are recognised as a part of current trade and other payables in the calculation of net current assets.

Other long-term employee benefits

The 's obligations for employees' annual leave and long service leave entitlements are recognised as employee related provisions in the statement of financial position.

Long-term employee benefits are measured at the present value of the expected future payments to be made to employees. Expected future payments incorporate anticipated future wage and salary levels, durations of service and employee departures and are discounted at rates determined by reference to market yields at the end of the reporting period on government bonds that have maturity dates that approximate the terms of the obligations. Any remeasurements for changes in assumptions of obligations for other long-term employee benefits are recognised in profit or loss in the periods in which the changes occur. The 's obligations for long-term employee benefits are presented as non-current provisions in its statement of financial position, except where the does not have an unconditional right to defer settlement for at least 12 months after the end of the reporting period, in which case the obligations are presented as current provisions.

Contract liabilities

An entity's obligation to transfer goods or services to a customer for which the entity has received consideration (or the amount is due) from the customer.

Capital grant/contribution liabilities

Grants to acquire or construct recognisable non-financial assets to identified specifications be constructed to be controlled by the are recognised as a liability until such time as the satisfies its obligations under the agreement.

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**NOTE 12
OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS**

Provider	Operating grants, subsidies and contributions revenue			Forecast 30 June Closing	
	Amended Budget Revenue	YTD Budget	YTD Revenue Actual		
	\$	\$	\$		
Operating grants and subsidies					
Governance					
CD75	Operating Grant Income - Community Planning & Development	141,000	63,500	0	77,500
CD77	Community Development Income	5,000	2,000	2,364	5,364
CS82	Sundry Income - Corporate Services	112,400	37,472	0	74,928
FI69	Costs of Recovery of Rates (Income) - Finance	72,000	0	213	72,213
FI72	Insurance claim payout - Finance	0	0	13,254	13,254
FI83	Salary Package FBT Contributions - Finance	17,499	0	0	17,499
HR73	Contributions & Reimbursements Operating - Human Resources	35,800	18,000	0	17,800
General purpose funding					
GF75	General Finance Operating Grant - General Financing	200,000	50,000	91,176	241,176
GF83	Fuel Tax Credits - General Financing	66,000	22,000	7,441	51,441
GF86	Contributions & Reimbursements - General Financing	49,920	15,360	12,058	46,618
Law, order, public safety					
EM75	Operating Grants - ESL - SES	37,400	11,600	0	25,800
FP73	Fire Prevention Other Operating Grant	450,000	225,000	0	225,000
FP74	Fire Prevention Operating Contributions (non ESL)	62,000	31,000	19,626	50,626
FP75	Fire Prevention Operating Grant (ESL)	277,480	138,740	90,942	229,682
FP82	Sundry Income - Fire Prevention	2,000	668	0	1,332
RG86	Private Strategic Firebreak Recoveries - Rangers	20,000	0	0	20,000
Education and welfare					
ED86	OSHC Inclusion Support Programme	10,000	2,500	4,451	11,951
ED73	Traineeship - Outside School Hours Care	0	0	3,532	3,532
Community amenities					
LC35	Operating Grants - Landcare	98,861	0	0	98,861
Recreation and culture					
CC73	Operating Grants - HEART	30,765	20,000	45,455	56,220
GD74	Operating Contributions - Parks & Gardens	9,900	0	22,014	31,914
GP86	Contributions & Reimbursements - Gloucester Park	18,000	6,000	5,279	17,279
HA82	Community Buildings Sundry Income	15,700	5,244	4,911	15,367
LI75	Operating Grants - Libraries	5,800	1,800	2,771	6,771
HA72	Insurance claim payout - Community Buildings	0	0	25,587	25,587
CC74	Contributions and Reimbursements - HEART	0	0	1,275	1,275
Transport					
MR87	Private Works Income	250,000	0	0	250,000
TY75	Asset Services Operating Grants - Asset Services	500,200	166,872	0	333,328
Economic services					
SE82	Sundry Income - Sustainable Development	0	0	1,000	1,000
		2,487,725	817,756	353,345	2,023,314
Operating contributions					
Governance					
IT82	Sundry Income - ICT	0	0	545	545
Community amenities					
LC74	Contributions & Reimbursements - Landcare	3,000	0	0	3,000
Other property and services					
SW86	Workers Compensation Recovered	8,000	2,000	4,368	10,368
WO82	Sundry Income - Works	0	0	5,227	5,227
		11,000	2,000	10,141	19,141
TOTALS		2,498,725	819,756	363,486	2,042,455

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**NOTE 13
NON-OPERATING GRANTS, SUBSIDIES AND CONTRIBUTIONS**

Provider	Non operating grants, subsidies and contributions revenue						
	Amended Budget Revenue	YTD Budget	Annual Budget	Budget Variations	Expected	YTD Revenue Actual	Forecast 30 June Closing
	\$	\$	\$	\$	\$	\$	\$
Non-operating grants and subsidies							
Law, order, public safety							
Water Tank grant income (DFES)	14,327	14,327	14,327	0	14,327	0	0
Recreation and culture							
MR Aquatic Centre Refurbishment - LRCIP Phase 3	521,676		521,676	0	521,676		521,676
MR HEART Fire Compliance and Ventilation - LRCIP Phase 3	500,000	500,000	500,000	0	500,000		0
MR HEART Theatre Floor - LRCIP Phase 3	350,000	350,000	350,000	0	350,000		0
MR Aquatic Centre - Changing Places	170,000		170,000	0	170,000		170,000
Transport							
Regional Roads Group	1,650,000		1,650,000		1,650,000	460,000	2,110,000
Main Roads Direct	284,442	284,442	284,442		284,442	290,560	290,560
Roads to Recovery	649,022		649,022		649,022		649,022
MRWA Bridge Grant	1,313,000	420,000	1,313,000		1,313,000		893,000
Lotterywest	150,000		150,000		150,000		150,000
Regional Airports Program (DISER) Grant for Augusta Aerodrome Imp	295,000		295,000		295,000		295,000
DoT - Bussell highway from Petrol Station to Motel	135,000		135,000		135,000		135,000
DoT - Andrews Way to Wadandi Track	0		0		0	14,463	14,463
Coastal Adaption Program (DoT) - Leeuwin Rd Revetment	52,501		52,501		52,501		52,501
MRWA - Regional Road Safety Program (RRSP)	779,587		779,587		779,587		779,587
	6,864,555	1,568,769	6,864,555	0	6,864,555	765,023	6,060,809
Non-operating contributions							
Community amenities							
Developer Contributions (Various)	288,000	96,000	288,000		288,000	7,493	199,493
Developer Contributions - Hasluck Street Reserve in Cowaramup	116,988		0		0	0	116,988
Developer Contributions: WAPC 159489					0	52,990	52,990
Developer Contributions: WAPC 112-21					0	16,978	16,978
Developer Contribution - Refund 12/07/2022					0	(9,276)	(9,276)
Developer Contribution - P221533					0	2,497	2,497
Developer Contribution - WAPC 160440					0	115,615	115,615
Developer Contribution - WAPC 162269					0	1,249	1,249
Developer Contribution - WAPC 160150					0	2,497	2,497
					0		0
Recreation and culture							
Contributions for Multi Club Storage Facility Shed	15,000	0	15,000	0	15,000	0	15,000
Contributions for Western Playing Field Shelters	75,000	0	75,000	0	75,000	0	75,000
Outdoor Multi use space Half-court Contribution	25,000	0	25,000	0	25,000	0	25,000
					0		0
Transport							
Restricted Contributions - WAPC 159489	0	0	0	0	0	7,359	7,359
Lions Club Grants & Contributions to capital projects	20,000		20,000		20,000		20,000
	539,988	96,000	423,000	0	423,000	197,402	641,390
TOTALS	7,404,543	1,664,769	7,287,555	0	7,287,555	962,425	6,702,199

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**NOTE 14
TRUST FUND**

Funds held at balance date which are required by legislation to be credited to the trust fund and which are not included in the financial statements are as follows:

Description	Opening Balance 1 July 2022	Amount Received	Amount Paid	Closing Balance 30 Nov 2022
	\$	\$	\$	\$
Public Open Space	153,000	0	0	153,000
	153,000	0	0	153,000

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**NOTE 15
BUDGET AMENDMENTS**

Amendments to original budget since budget adoption. Surplus/(Deficit)

GL Code	Description	Council Resolution	Classification	Non Cash Adjustment	Increase in Available Cash	Decrease in Available Cash	Amended Budget Running Balance
				\$	\$	\$	\$
CR75/CRG13/CAR21	During 2020-21, the Shire received a special purpose grant of \$420,000.00 from the Local Government Grants Commission to cover the works required to Warner Glen bridge. With the works now having been completed, the grant amount will need to be recognised as income, which will fully offset the expenditure.	OM2002/147	Capital Expenses		420,000	(420,000)	0
GD89/RES132/WK1805 GD73/GDC006 1635/WK1744	Budget amendment required to allow for community infrastructure works at Hasluck Street Reserve in Cowaramup. Community infrastructure works will include pathways, culvert crossing, park furniture and landscaping. These works were bonded at the time of development (2009). Due to a change in ownership, future subdivisional works progressed but infrastructure requirements within this reserve remained the responsibility of the original developer. An agreement has just been reached with the developer, with the developer transferring funds to the Shire for these works to be undertaken, and for the Shire to undertake these works.	OM2002/147	Capital Expenses		116,988	(116,988)	0
IT58	Budget amendment required to reallocate savings from ICT008 to fund additional costs for core switch replacements.	OM2022/228	Operating Revenue			(7,895)	(7,895)
ICT004/ICT008	Budget amendment required to reallocate savings from ICT008 to fund additional costs for core switch replacements.	OM2022/228	Capital Expenses		20,895	(13,000)	7,895
WA01/WA02/WA80/W K0437	Budget amendment required to increase recycling sales income and increase Waste Operations FTE.	OM2022/196	Operating Expenses		29,346	(29,346)	0
				0	587,229	(587,229)	0

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

**NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 30 NOVEMBER 2022**

**NOTE 16
EXPLANATION OF MATERIAL VARIANCES**

The material variance thresholds are adopted annually by Council as an indicator of whether the actual expenditure or revenue varies from the year to date actual materially.

The material variance adopted by Council for the 2022-23 year is \$10,000 or 10.00% whichever is the greater.

Nature or type	Var. \$	Var. %	Explanation of positive variances		Explanation of negative variances	
			Timing	Permanent	Timing	Permanent
	\$	%				
Revenue from operating activities						
Operating grants, subsidies and contributions	(285,432)	(29.17%) ▼				Income recognition in-line with expenses
Interest earnings	194,632	65.09% ▲		Interest on investments higher than anticipated		
Expenditure from operating activities						
Materials and contracts	1,312,258	22.63% ▲		Mainly due to the timing of Special Projects, planning is underway		
Depreciation on non-current assets	(722,001)	(16.00%) ▼				Increase in depreciation due to Land and Building revaluation
Interest expenses	47,826	18.05% ▲		Accrued interest reversal for June 22 processed in July 22 (approx \$43k)		
Investing activities						
Proceeds from non-operating grants, subsidies and contributions	(650,758)	(26.99%) ▼				Income recognition inline with expenses
Proceeds from disposal of assets	47,680	0.00% ▲		Timing - Budgeted in December 2022		
Payments for property, plant and equipment and infrastructure	3,187,540	54.54% ▲		Purchasing delays due lack of availability		
Financing activities						
Payments for principal portion of lease liabilities	26,832	57.17% ▲		Patching truck not yet received, lease payments budgeted to commence		



BUSINESS UNIT FINANCIAL REPORT
FOR THE PERIOD ENDING 30 NOVEMBER 2022

**SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023**

SHIRE OF AUGUSTA MARGARET RIVER STATEMENT OF FINANCIAL ACTIVITY FOR THE PERIOD ENDING 30 NOVEMBER 2022							
BUSINESS UNITS	2022-23 Original Budget \$	2022-23 Amended Budget \$	2022-23 Month of November \$	2022-23 YTD Budget \$	2022-23 YTD Actual \$	YTD Variance >10% & >\$10,000	COMMENTS
Net Current Assets at 1 July surplus/(deficit)	4,278,140	4,278,140		4,278,140	4,501,954	0	
Revenue from Operating Activities							
Rates	24,997,501	24,997,501	114,565	24,852,501	25,057,400	0	
General Financing	870,343	870,343	218,826	377,025	637,679	260,654	Perm: 2022-23 FAGS allocation higher than budgeted and interest on investments higher than anticipated
Finance	141,449	141,449	23,254	45,766	55,202	0	
Corporate Services	112,400	112,400	5,231	46,838	22,751	(24,087)	Timing: profiling set-up to receive amounts each month but actuals are coming in bi-monthly.
Customer Services	0	0	0	0	0	0	
Customer Experience	203,300	203,300	16,936	84,132	89,241	0	
Information Comm. Technology	0	0	818	0	1,364	0	
Human Resources	35,800	35,800	0	24,000	0	(24,000)	Timing: contributions & reimbursements profiling
Community Planning & Development	166,549	166,549	43,111	87,062	51,923	(35,140)	Timing: income recognition inline with expenses
Legal & Governance	10,000	10,000	580	0	580	0	
Communications & Marketing	0	0	0	0	0	0	
Community Fire & Emergency Services	828,880	828,880	135,461	413,675	247,068	(166,607)	Timing: income recognition inline with expenses
Rangers	162,800	162,800	13,394	54,305	105,419	51,114	Perm: increase in demand for grant of right of burial
Libraries	36,200	36,200	2,381	14,050	14,489	0	
Environmental Health	151,200	151,200	12,107	99,000	107,863	0	
Outside School Hours Care	257,200	257,200	24,513	94,700	129,747	35,047	Timing/perm: higher than anticipated numbers for OSHC
Waste Services	5,457,136	5,486,482	102,250	5,065,233	5,138,510	0	
Planning & Development Services	360,000	360,000	24,634	145,834	175,085	29,251	Timing: may fluctuate over the course of the year
Community Buildings	15,700	15,700	12,488	6,551	42,986	36,435	Permanent: insurance claim payment
Margaret River Recreation Centre	407,710	407,710	44,376	184,980	184,577	0	
Margaret River HEART	438,365	438,365	104,371	195,750	226,790	31,040	Perm: DLGSC funding payment to cover prior year losses
Augusta Recreation Centre	38,400	38,400	2,561	16,200	11,308	0	
Gloucester Park	44,500	44,500	2,636	27,000	23,465	0	
Parks and Gardens	9,900	9,900	0	0	22,014	22,014	Perm: unbudgeted contribution
Asset Services	712,200	712,200	74,223	238,538	151,981	(86,557)	Timing: income recognition in-line with expenses
Landcare & Environmental Services	106,861	106,861	0	3,000	2,000	0	
Maintenance	250,000	250,000	0	0	0	0	
Plant Program	19,149	19,149	0	0	8,333	0	
Caravan Parks	2,687,800	2,687,800	193,701	623,700	610,127	0	
Building Services	301,200	301,200	22,048	125,500	152,546	27,046	Timing: may fluctuate over the course of the year
Sustainable Economy	0	0	0	0	1,017	0	
Works Overheads	0	0	2,338	0	7,565	0	
Plant Operation Costs	0	0	0	0	0	0	
Other Property and Services	44,000	44,000	0	37,000	4,368	(32,632)	Timing: awaiting receipt of limesand royalties
Expenditure from Operating Activities	38,866,543	38,895,889	1,196,832	32,862,340	33,283,546	421,206	
General Financing	(864,424)	(856,529)	(98,202)	(315,032)	(264,817)	50,215	Timing: June 2022 interest accrual, offset by interest paid on loans
Members of Council	(338,871)	(338,871)	(28,856)	(141,171)	(139,069)	0	
Executive	(985,736)	(985,736)	(106,102)	(413,451)	(407,487)	0	
Finance	(1,556,905)	(1,556,905)	(76,303)	(1,020,202)	(1,176,613)	(156,411)	Timing: yet to allocate workers comp and vehicle insurances
Records	(184,741)	(184,741)	(18,522)	(81,541)	(83,910)	0	
Corporate Planning & Performance	(322,482)	(322,482)	(26,234)	(107,979)	(103,933)	0	
Corporate Services	(275,378)	(275,378)	(12,027)	(119,035)	(75,319)	43,716	Timing: profiling and awaiting receipt of invoices for utilities
Customer Services	0	0	(43)	0	(43)	0	
Customer Experience	(1,292,306)	(1,292,306)	(107,656)	(574,951)	(480,340)	0	
Information Technology	(1,844,558)	(1,852,453)	(107,834)	(1,086,166)	(531,614)	554,552	Timing/perm: software subscription fees and vacant positions
Human Resources	(798,711)	(798,711)	(89,736)	(367,211)	(361,948)	0	
Community Planning & Development	(1,341,398)	(1,341,398)	(144,165)	(698,285)	(525,440)	172,845	Timing: projects and invoices yet to be received
Legal & Governance	(521,794)	(521,794)	(53,993)	(215,080)	(198,370)	0	
Communications & Marketing	(916)	(916)	0	(384)	0	0	
Community Fire & Emergency Services	(1,674,982)	(1,674,982)	(160,317)	(828,635)	(578,581)	250,054	Timing: projects underway
Rangers	(803,576)	(803,576)	(81,421)	(327,010)	(284,044)	42,966	Timing: position vacant
Beach Lifeguards	(164,500)	(164,500)	0	(2,000)	(592)	0	
Libraries	(1,123,397)	(1,123,397)	(115,593)	(490,855)	(516,618)	0	
Environmental Health	(634,913)	(634,913)	(62,130)	(248,495)	(207,476)	41,019	Timing/perm: vacant positions and projects underway
Outside School Hours Care	(261,257)	(261,257)	(34,824)	(112,629)	(150,980)	(38,351)	Timing/perm: minimum staff levels to meet legislation requirements increased due to move of service and isolated worker
Waste Services	(3,760,844)	(3,790,190)	(399,496)	(1,505,384)	(1,325,444)	179,940	Timing: projects underway
Planning & Development Services	(1,559,839)	(1,559,839)	(140,579)	(665,642)	(524,568)	141,074	Timing: vacant positions and projects
Landcare	(1,141,856)	(1,141,856)	(157,952)	(596,458)	(357,847)	238,611	Timing: projects underway

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SHIRE OF AUGUSTA MARGARET RIVER STATEMENT OF FINANCIAL ACTIVITY FOR THE PERIOD ENDING 30 NOVEMBER 2022							
BUSINESS UNITS	2022-23 Original Budget \$	2022-23 Amended Budget \$	2022-23 Month of November \$	2022-23 YTD Budget \$	2022-23 YTD Actual \$	YTD Variance >10% & >\$10,000	COMMENTS
Community Buildings	(2,398,517)	(2,398,517)	(299,604)	(993,285)	(1,105,948)	(112,663)	Timing: projects underway
Margaret River Recreation Centre	(1,552,441)	(1,552,441)	(160,312)	(695,588)	(768,988)	0	
Margaret River HEART	(1,555,317)	(1,555,317)	(177,722)	(659,281)	(760,437)	(101,156)	Timing/perm: employee costs and depreciation
Augusta Recreation Centre	(153,445)	(153,445)	(13,359)	(71,043)	(69,980)	0	
Gloucester Park	(212,175)	(212,175)	(31,718)	(101,175)	(170,221)	(69,046)	Perm: depreciation increased due to Land and Buildings revaluation
Parks and Gardens	(2,663,050)	(2,663,050)	(291,040)	(1,119,963)	(907,974)	211,989	Timing: projects underway and staff leave
Asset Services	(2,054,338)	(2,054,338)	(91,063)	(961,672)	(417,055)	544,617	Timing: projects underway, utilities bills not yet received
Maintenance	(11,160,900)	(11,160,900)	(1,143,919)	(4,544,151)	(5,091,820)	(547,669)	Timing: vacant positions and profiling
Plant Program	(75,440)	(75,440)	(4,596)	(12,000)	(7,687)	0	
Caravan Parks	(1,563,696)	(1,563,696)	(135,662)	(712,359)	(677,844)	134,515	Timing: vacant positions and projects
Building Control	(242,818)	(242,818)	(30,724)	(102,883)	(100,699)	0	
Sustainable Economy	(212,506)	(212,506)	(16,658)	(91,309)	(75,460)	15,849	Timing: scheduling of grant payments
Major Projects	(82,330)	(82,330)	(8,833)	(35,463)	(31,338)	0	
Public Works	(253,426)	(253,426)	(90,222)	(133,582)	(482,099)	(348,517)	Timing: under allocation of overheads
Plant Operating Costs	170,628	170,628	112,081	73,785	(54,934)	(128,719)	Timing: allocation fluctuation
Other Property and Services	(11,000)	(11,000)	(340)	(2,000)	(6,478)	0	
	(45,474,149)	(45,503,495)	(4,404,675)	(20,079,566)	(18,924,015)	1,155,551	
Non-cash amounts excluded from operating activities							
Depreciation on assets	10,762,756	10,762,756	0	4,511,512	5,220,291	708,779	Perm: depreciation increased due to Land and Buildings revaluation
(Profit)/Loss Asset Disposal	26,291	26,291	47,680	45,000	47,680	0	
	10,789,048	10,789,047	47,680	4,556,512	5,267,971	708,779	
Amount attributable to operating activities	4,181,443	4,181,442	(3,160,162)	17,339,286	19,627,502	2,288,216	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

REVENUE - General Purpose Funding											
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME											
			Rates	23,448,966	24,765,001	24,765,001	91,405	24,643,501	24,846,289	0	
			Fees and charges	149,666	75,000	75,000	2,936	75,000	80,640	0	
			Interest received	157,541	157,500	157,500	20,224	134,000	130,472	0	
TOTAL OPERATING INCOME				23,844,173	24,997,501	24,997,501	114,565	24,852,501	25,057,400		
OPERATING EXPENDITURE											
			Employee costs	(208,980)	0	0	0	0	0	0	
			Materials and contracts	(316,256)	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(525,236)	0	0	0	0	0		
Business Unit Totals											
			Operating Income	23,844,173	24,997,501	24,997,501	114,565	24,852,501	25,057,400	0	
			Operating Expenses	(525,236)	0	0	0	0	0	0	
			Capital Income	0	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				23,318,937	24,997,501	24,997,501	114,565	24,852,501	25,057,400		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

GENERAL FINANCING - General Purpose Funding										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating Grants, Subsidies and Contributions	315,920	315,920	99,829	148,620	210,503	61,883	Perm: 2022-23 FAGS allocation \$165k higher than budgeted
			Fees and Charges	158,423	158,423	12,923	63,405	64,013	0	
			Service Charges	0	0	0	0	0	0	
			Interest Received	396,000	396,000	106,074	165,000	363,162	198,162	Perm: budgeted interest 1.8% compared to average interest on Term Deposits for November of 3.28%
TOTAL OPERATING INCOME				870,343	870,343	218,826	377,025	637,679		
OPERATING EXPENDITURE										
			Materials and contracts	(218,000)	(218,000)	(8,068)	(50,000)	(47,611)	0	Timing: June 2022 interest accrual, offset by interest paid on loans
			Interest expenses	(646,424)	(646,424)	(90,134)	(265,032)	(217,206)	47,826	
TOTAL OPERATING EXPENDITURE				(864,424)	(864,424)	(98,202)	(315,032)	(264,817)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				29,628	29,628	723	12,500	13,223		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(1,298,444)	(1,298,444)	(119,077)	(523,750)	(452,241)		
Business Unit Totals										
			Operating Income	870,343	870,343	218,826	377,025	637,679	260,654	
			Operating Expenses	(864,424)	(864,424)	(98,202)	(315,032)	(264,817)	50,215	
			Capital Income	29,628	29,628	723	12,500	13,223	0	
			Capital Expenditure	(1,298,444)	(1,298,444)	(119,077)	(523,750)	(452,241)	71,509	
TOTAL FOR BUSINESS UNIT				(1,262,897)	(1,262,897)	2,270	(449,257)	(66,156)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MEMBERS OF COUNCIL - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	0	0	0	0	0	0	
TOTAL OPERATING INCOME				0	0	0	0	0		
OPERATING EXPENDITURE									0	
			Employee costs	(17,000)	(17,000)	(1,029)	(7,082)	(7,121)	0	
			Materials and contracts	(15,835)	(15,835)	(1,616)	(8,908)	(10,378)	0	
			Other expenditure	(306,036)	(306,036)	(26,211)	(125,181)	(121,570)	0	
TOTAL OPERATING EXPENDITURE				(338,871)	(338,871)	(28,856)	(141,171)	(139,069)		
CAPITAL INCOME									0	
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	(338,871)	(338,871)	(28,856)	(141,171)	(139,069)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(338,871)	(338,871)	(28,856)	(141,171)	(139,069)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

EXECUTIVE - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
TOTAL OPERATING INCOME				0	0	0	0	0		
OPERATING EXPENDITURE										
			Employee costs	(883,122)	(883,122)	(105,570)	(380,062)	(373,979)	0	
			Materials and contracts	(102,614)	(102,614)	(532)	(33,389)	(33,508)	0	
TOTAL OPERATING EXPENDITURE				(985,736)	(985,736)	(106,102)	(413,451)	(407,487)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0		0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0		0	0		
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	(985,736)	(985,736)	(106,102)	(413,451)	(407,487)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(985,736)	(985,736)	(106,102)	(413,451)	(407,487)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

FINANCE - Governance										
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	21,064	89,499	8,589	18,000	22,055	0	
			Fees and charges	0	48,500	14,665	25,166	31,842	0	
			Other income	3,373	3,450	0	2,600	1,305	0	
TOTAL OPERATING INCOME				24,436	141,449	23,254	45,766	55,202		
OPERATING EXPENDITURE										
			Employee costs	(549,534)	(638,157)	(69,651)	(267,142)	(277,905)	0	
			Materials and contracts	(72,867)	(208,810)	(6,653)	(44,060)	(60,974)	(16,914)	Timing/Perm: unbudgeted insurance claims, high level of interim rating schedules
			Insurance expenses	(627,768)	(709,938)	0	(709,000)	(837,734)	(128,734)	Timing/perm: yet to allocate workers comp and vehicle insurances
TOTAL OPERATING EXPENDITURE				(1,250,169)	(1,556,905)	(76,303)	(1,020,202)	(1,176,613)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	24,436	141,449	23,254	45,766	55,202	0	
			Operating Expenses	(1,250,169)	(1,556,905)	(76,303)	(1,020,202)	(1,176,613)	(156,411)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(1,225,733)	(1,415,456)	(53,050)	(974,436)	(1,121,411)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

RECORDS - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	0	0	30	0	150	0	
			Other income	0	0	0	0	0	0	
TOTAL OPERATING INCOME				0	0	30	0	150		
OPERATING EXPENDITURE										
			Employee costs	(171,270)	(171,270)	(17,525)	(73,722)	(74,685)	0	
			Materials and contracts	(8,560)	(8,560)	(300)	(5,760)	(5,670)	0	
			Depreciation on non-current assets	(4,911)	(4,911)	(697)	(2,059)	(3,555)	0	
TOTAL OPERATING EXPENDITURE				(184,741)	(184,741)	(18,522)	(81,541)	(83,910)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	0	0	30	0	150	0	
			Operating Expenses	(184,741)	(184,741)	(18,522)	(81,541)	(83,910)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(184,741)	(184,741)	(18,492)	(81,541)	(83,760)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CORPORATE PLANNING & PERFORMANCE - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
TOTAL OPERATING INCOME				0	0	0	0	0		
OPERATING EXPENDITURE										
			Employee costs	(227,932)	(227,932)	(26,234)	(98,129)	(86,513)	11,616	Timing/perm: delay in recruitment, position now filled
			Materials and contracts	(94,550)	(94,550)	0	(9,850)	(17,420)	0	
TOTAL OPERATING EXPENDITURE				(322,482)	(322,482)	(26,234)	(107,979)	(103,933)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	(322,482)	(322,482)	(26,234)	(107,979)	(103,933)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(322,482)	(322,482)	(26,234)	(107,979)	(103,933)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CUSTOMER EXPERIENCE - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	203,300	203,300	16,936	84,132	89,241	0	
TOTAL OPERATING INCOME				203,300	203,300	16,936	84,132	89,241	0	
OPERATING EXPENDITURE										
			Employee costs	(899,554)	(899,554)	(99,830)	(387,479)	(343,858)	43,621	Timing: vacant positions
			Materials and contracts	(252,752)	(252,752)	(7,826)	(137,472)	(63,983)	73,489	Timing: projects underway
			Other expenditure	(140,000)	(140,000)	0	(50,000)	(72,500)	(22,500)	Timing: major event grants
TOTAL OPERATING EXPENDITURE				(1,292,306)	(1,292,306)	(107,656)	(574,951)	(480,340)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	203,300	203,300	16,936	84,132	89,241	0	
			Operating Expenses	(1,292,306)	(1,292,306)	(107,656)	(574,951)	(480,340)	94,611	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(1,089,006)	(1,089,006)	(90,720)	(490,819)	(391,100)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CORPORATE SERVICES - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	112,400	112,400	5,092	46,838	5,092	(41,746)	Perm: Standpipe use LA at Boodjidup Road, actuals included as Nature & Type Fees and Charges. Budget to reallocated to Fees & Charges as part of md-year budget review Perm: as above
			Fees and charges	0	0	0	0	16,054	16,054	
			Other income	0	0	139	0	1,605	-	
TOTAL OPERATING INCOME				112,400	112,400	5,231	46,838	22,751	(25,692)	
OPERATING EXPENDITURE										
			Materials and contracts	(86,040)	(86,040)	(7,074)	(42,683)	(30,712)	11,971	Timing: profiling Timing: awaiting receipt of invoices
			Utility charges	(189,338)	(189,338)	(4,953)	(76,352)	(44,607)	31,745	
			Depreciation on non-current assets	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(275,378)	(275,378)	(12,027)	(119,035)	(75,319)	43,716	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	112,400	112,400	5,231	46,838	22,751	(24,087)	
			Operating Expenses	(275,378)	(275,378)	(12,027)	(119,035)	(75,319)	43,716	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(162,978)	(162,978)	(6,796)	(72,197)	(52,568)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

INFORMATION COMMUNICATION TECHNOLOGY - Governance											
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME											
			Other income	1,493	0	0	818	0	1,364	0	
TOTAL OPERATING INCOME				1,493	0	0	818	0	1,364		
OPERATING EXPENDITURE											
			Employee costs	(345,550)	(431,436)	(431,436)	(43,390)	(185,712)	(144,416)	41,296	
			Materials and contracts	(915,583)	(1,396,236)	(1,404,131)	(64,012)	(893,376)	(383,583)	509,793	Timing/perm: vacant position. Some budget will most likely be transferred to IT04 at mid-year budget review Timing/perm: Altus Uplift Fee (32k) postponed, Microsoft EA (100-120k) pending, Palo Alto renewals differed. Deferred: Papercut implementation and licences. IT Vision or MSP not used. GeoCortex (initial purchase), Landgate aerial. ERP deferred until Evaluation completed.
			Depreciation on non-current assets	(10,600)	(16,886)	(16,886)	(432)	(7,078)	(3,615)	0	
TOTAL OPERATING EXPENDITURE				(1,271,733)	(1,844,558)	(1,852,453)	(107,834)	(1,086,166)	(531,614)		
CAPITAL INCOME											
TOTAL CAPITAL INCOME				0	0	0	0	0	0	0	
CAPITAL EXPENDITURE											
TOTAL CAPITAL EXPENDITURE				(5,780)	(189,030)	(181,135)	0	(182,030)	0	182,030	
Business Unit Totals											
			Operating Income	1,493	0	0	818	0	1,364	0	
			Operating Expenses	(1,271,733)	(1,844,558)	(1,852,453)	(107,834)	(1,086,166)	(531,614)	554,552	
			Capital Income	0	0	0	0	0	0	0	
			Capital Expenditure	(5,780)	(189,030)	(181,135)	0	(182,030)	0	182,030	
TOTAL FOR BUSINESS UNIT				(1,276,020)	(2,033,588)	(2,033,588)	(107,016)	(1,268,196)	(530,250)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

HUMAN RESOURCES - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	35,800	35,800	0	24,000	0	(24,000)	Timing: profiling
TOTAL OPERATING INCOME				35,800	35,800	-	24,000	-		
OPERATING EXPENDITURE										
			Employee costs	(651,722)	(651,722)	(80,507)	(280,307)	(272,510)	0	
			Materials and contracts	(146,989)	(146,989)	(8,228)	(86,904)	(89,438)	0	
TOTAL OPERATING EXPENDITURE				(798,711)	(798,711)	(88,736)	(367,211)	(361,948)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	35,800	35,800	0	24,000	0	(24,000)	
			Operating Expenses	(798,711)	(798,711)	(88,736)	(367,211)	(361,948)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(762,911)	(762,911)	(88,736)	(343,211)	(361,948)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

COMMUNITY PLANNING & DEVELOPMENT - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	146,000	146,000	40,562	78,500	43,425	(35,075)	Timing: income recognition in line with expenses
			Fees and charges	20,549	20,549	2,549	8,562	8,497	0	
TOTAL OPERATING INCOME				166,549	166,549	43,111	87,062	51,923		
OPERATING EXPENDITURE										
			Employee costs	(580,130)	(580,130)	(55,552)	(249,734)	(186,816)	62,918	Timing/perm: vacant positions
			Materials and contracts	(347,432)	(347,432)	(66,684)	(188,175)	(123,417)	64,758	Timing: projects commencing
			Depreciation on non-current assets	(3,836)	(3,836)	(191)	(1,608)	(976)	0	
			Other expenditure	(410,000)	(410,000)	(21,738)	(258,768)	(214,230)	44,538	Timing: signed agreements to be received
TOTAL OPERATING EXPENDITURE				(1,341,398)	(1,341,398)	(144,165)	(698,285)	(525,440)		
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	(3,732)	0	(3,732)		
Business Unit Totals										
			Operating Income	166,549	166,549	43,111	87,062	51,923	(35,140)	
			Operating Expenses	(1,341,398)	(1,341,398)	(144,165)	(698,285)	(525,440)	172,845	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	(3,732)	0	(3,732)	0	
TOTAL FOR BUSINESS UNIT				(1,174,849)	(1,174,849)	(104,786)	(611,223)	(477,250)	133,973	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

LEGAL & GOVERNANCE - Governance										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	10,000	10,000	580	0	580	0	
TOTAL OPERATING INCOME				10,000	10,000	580	0	580	0	
OPERATING EXPENDITURE										
			Employee costs	(408,634)	(408,634)	(46,231)	(167,305)	(155,630)	0	
			Materials and contracts	(113,160)	(113,160)	(7,762)	(47,775)	(42,741)	0	
TOTAL OPERATING EXPENDITURE				(521,794)	(521,794)	(53,993)	(215,080)	(198,370)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	10,000	10,000	580	0	580	0	
			Operating Expenses	(521,794)	(521,794)	(53,993)	(215,080)	(198,370)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(511,794)	(511,794)	(53,413)	(215,080)	(197,790)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

COMMUNITY FIRE & EMERGENCY SERVICES - Law, Order and Public Safety											
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
Emergency Management											
OPERATING INCOME											
			Operating grants, subsidies and contributions	40,637	37,400	37,400	13,991	18,100	13,991	0	
TOTAL OPERATING INCOME				40,637	37,400	37,400	13,991	18,100	13,991	0	
OPERATING EXPENDITURE											
			Materials and contracts	(39,183)	(34,800)	(34,800)	(4,573)	(15,500)	(13,344)	0	
			Depreciation on non-current assets	(26,931)	(27,375)	(27,375)	(3,369)	(11,475)	(17,180)	0	
			Interest expenses	0	0	0	0	0	0	0	
			Insurance expenses	(1,454)	(2,600)	(2,600)	0	(2,600)	(1,251)	0	
			<i>SES LGGS Scheme Approved Application</i>	<i>(39,183)</i>	<i>(34,800)</i>	<i>(34,800)</i>	<i>(4,573)</i>	<i>(15,500)</i>	<i>(13,344)</i>	<i>0</i>	
			<i>Shire Funded</i>	<i>(28,385)</i>	<i>(29,975)</i>	<i>(29,975)</i>	<i>(3,369)</i>	<i>(14,075)</i>	<i>(18,431)</i>	<i>0</i>	
TOTAL OPERATING EXPENDITURE				(67,568)	(64,775)	(64,775)	(7,942)	(29,575)	(31,775)	0	
CAPITAL INCOME											
TOTAL CAPITAL INCOME				0	0	0	0	0	0	0	
CAPITAL EXPENDITURE											
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	0	
Fire Prevention											
OPERATING INCOME											
			Operating grants, subsidies and contributions	670,365	791,480	791,480	121,469	395,575	233,077	(162,498)	Timing: income recognised inline with expenses
TOTAL OPERATING INCOME				670,365	791,480	791,480	121,469	395,575	233,077	(162,498)	
OPERATING EXPENDITURE											
			Employee costs	(235,002)	(231,412)	(231,412)	(28,193)	(101,382)	(95,670)	0	
			Materials and contracts	(601,851)	(781,846)	(781,846)	(81,444)	(417,296)	(149,190)	268,106	Timing: projects underway
			Utility charges	(25,784)	(20,000)	(20,000)	(3,379)	(8,335)	(12,162)	0	
			Depreciation on non-current assets	(538,334)	(524,949)	(524,949)	(39,359)	(220,047)	(231,995)	0	
			Insurance expenses	(56,224)	(52,000)	(52,000)	0	(52,000)	(57,791)	0	
			<i>BFB LGGS Scheme Approved Application</i>	<i>(317,943)</i>	<i>(279,479)</i>	<i>(279,479)</i>	<i>(44,206)</i>	<i>(171,714)</i>	<i>(161,428)</i>	<i>0</i>	
			<i>Shire Funded</i>	<i>(786,182)</i>	<i>(782,001)</i>	<i>(782,001)</i>	<i>(70,151)</i>	<i>(343,469)</i>	<i>(333,532)</i>	<i>0</i>	
TOTAL OPERATING EXPENDITURE				(1,457,416)	(1,610,207)	(1,610,207)	(152,375)	(799,060)	(546,806)	252,254	
CAPITAL INCOME											
TOTAL CAPITAL INCOME				271,065	14,327	14,327	0	14,327	0	(14,327)	
CAPITAL EXPENDITURE											
TOTAL CAPITAL EXPENDITURE				(316,249)	(14,327)	(14,327)	0	(14,327)	0	14,327	
Business Unit Totals											
			Operating Income	711,002	828,880	828,880	135,461	413,675	247,068	(166,607)	
			Operating Expenses	(1,524,985)	(1,674,982)	(1,674,982)	(160,317)	(828,635)	(578,581)	250,054	
			Capital Income	271,065	14,327	14,327	0	14,327	0	(14,327)	
			Capital Expenditure	(316,249)	(14,327)	(14,327)	0	(14,327)	0	14,327	
TOTAL FOR BUSINESS UNIT				(859,168)	(846,102)	(846,102)	(24,856)	(414,960)	(331,513)	83,447	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

RANGERS - Law Order & Public Safety										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	20,000	20,000	0	0	0	0	
			Fees and charges	142,800	142,800	13,394	54,305	105,419	51,114	Perm: increase in demand for grant of right of burial
TOTAL OPERATING INCOME				162,800	162,800	13,394	54,305	105,419	92,668	
OPERATING EXPENDITURE										
			Employee costs	(610,762)	(610,762)	(58,209)	(248,899)	(210,539)	33,545	Timing/perm: vacant positions
			Materials and contracts	(188,434)	(188,434)	(22,444)	(76,275)	(69,590)	0	Timing: vehicle operating expenditure profiled evenly over 12 months but actual expenditure fluctuates
			Depreciation on non-current assets	(4,380)	(4,380)	(768)	(1,836)	(3,916)	0	
TOTAL OPERATING EXPENDITURE				(803,576)	(803,576)	(81,421)	(327,010)	(284,044)	65,366	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(50,000)	(50,000)	0	0	0	0	
Business Unit Totals										
			Operating Income	162,800	162,800	13,394	54,305	105,419	51,114	
			Operating Expenses	(803,576)	(803,576)	(81,421)	(327,010)	(284,044)	42,966	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(50,000)	(50,000)	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(690,776)	(690,776)	(68,027)	(272,705)	(178,625)	94,080	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

BEACH LIFEGUARDS Law Order & Public Safety										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
TOTAL OPERATING INCOME				0	0	0	0	0	0	
OPERATING EXPENDITURE										
			Materials and contracts	(164,500)	(164,500)	0	(2,000)	(592)	0	
TOTAL OPERATING EXPENDITURE				(164,500)	(164,500)	0	(2,000)	(592)	-	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0		
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0		
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	(164,500)	(164,500)	0	(2,000)	(592)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(164,500)	(164,500)	0	(2,000)	(592)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

LIBRARIES Recreation and Culture										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	5,800	5,800	34	1,800	2,805	0	
			Fees and charges	30,400	30,400	217	2,250	2,346	0	
TOTAL OPERATING INCOME				36,200	36,200	2,381	14,050	14,489	0	
OPERATING EXPENDITURE										
			Employee costs	(849,764)	(849,764)	(96,240)	(364,377)	(372,390)	0	
			Materials and contracts	(211,443)	(211,443)	(10,796)	(100,453)	(98,800)	0	
			Utility charges	(16,565)	(16,565)	(661)	(6,900)	(5,158)	0	
			Depreciation on non-current assets	(45,625)	(45,625)	(7,896)	(19,125)	(40,270)	(21,145)	Perm: depreciation increased due to Land and Buildings revaluation
TOTAL OPERATING EXPENDITURE				(1,123,397)	(1,123,397)	(115,593)	(490,855)	(516,618)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	36,200	36,200	2,381	14,050	14,489	0	
			Operating Expenses	(1,123,397)	(1,123,397)	(115,593)	(490,855)	(516,618)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(1,087,197)	(1,087,197)	(113,212)	(476,805)	(502,129)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

ENVIRONMENTAL HEALTH - Health and Administration										
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	153,895	151,200	12,107	99,000	107,863	0	
TOTAL OPERATING INCOME				153,895	151,200	12,107	99,000	107,863	0	
OPERATING EXPENDITURE										
			Employee costs	(535,263)	(561,739)	(60,191)	(220,142)	(195,685)	24,457	Timing/perm: Environmental Health Officer working reduced hours due to pregnancy, maternity leave commenced October (Budgeted at 1xFTE). Environmental Health Technicians budgeted 2x1 FTE commenced but not working the equivalent of 2x FTE's.
			Materials and contracts	(31,962)	(69,338)	(1,939)	(26,745)	(10,846)	15,899	Timing/perm: profiled monthly. Works to be undertaken second half of the year. First half of the year the focus has been on rebuilding the team with a new team structure. Restructure occurred due difficulty obtaining qualified environmental health officers. Contract services are linked to the delivery of projects. Which will commence in the second half of the financial year.
			Depreciation on non-current assets	(3,778)	(3,836)	0	(1,608)	(945)	0	
TOTAL OPERATING EXPENDITURE				(571,003)	(634,913)	(62,130)	(248,495)	(207,476)	41,019	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	153,895	151,200	12,107	99,000	107,863	0	
			Operating Expenses	(571,003)	(634,913)	(62,130)	(248,495)	(207,476)	41,019	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(417,108)	(483,713)	(50,023)	(149,495)	(99,613)	49,882	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

OUTSIDE SCHOOL HOURS CARE - Education and Welfare										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	10,000	10,000	3,876	2,500	8,326	0	Timing/perm: higher than anticipated numbers for OSHC
			Fees and charges	247,200	247,200	20,638	92,200	121,421	29,221	
TOTAL OPERATING INCOME				257,200	257,200	24,513	94,700	129,747	35,047	
OPERATING EXPENDITURE										
			Employee costs	(197,426)	(197,426)	(31,852)	(85,323)	(124,410)	(39,087)	Timing/perm: as above, minimum staff levels to meet legislation requirements
			Materials and contracts	(63,280)	(63,280)	(2,935)	(27,075)	(26,377)	0	
			Depreciation on non-current assets	(551)	(551)	(38)	(231)	(193)	0	
TOTAL OPERATING EXPENDITURE				(261,257)	(261,257)	(34,824)	(112,629)	(150,980)	(38,351)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	257,200	257,200	24,513	94,700	129,747	35,047	
			Operating Expenses	(261,257)	(261,257)	(34,824)	(112,629)	(150,980)	(38,351)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(4,057)	(4,057)	(10,311)	(17,929)	(21,232)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

WASTE SERVICES - Community Amenities										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	5,457,136	5,486,482	102,250	5,065,233	5,138,510	0	
TOTAL OPERATING INCOME				5,457,136	5,486,482	102,250	5,065,233	5,138,510	0	
OPERATING EXPENDITURE										
			Employee costs	(731,664)	(761,010)	(87,201)	(304,334)	(328,042)	0	
			Materials and contracts	(2,858,640)	(2,858,640)	(296,012)	(1,125,290)	(911,888)	213,402	Timing: project planning underway
			Utility charges	0	0	(294)	0	(1,631)	0	
			Depreciation on non-current assets	(131,400)	(131,400)	(13,651)	(55,080)	(70,256)	(15,176)	Perm: depreciation increased due to Land and Buildings revaluation
			Other expenditure	(39,140)	(39,140)	(2,338)	(20,680)	(13,629)	0	
TOTAL OPERATING EXPENDITURE				(3,760,844)	(3,790,190)	(399,496)	(1,505,384)	(1,325,444)	179,940	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(750,000)	(750,000)	(1,948)	(50,000)	(18,054)	31,946	
Business Unit Totals										
			Operating Income	5,457,136	5,486,482	102,250	5,065,233	5,138,510	0	
			Operating Expenses	(3,760,844)	(3,790,190)	(399,496)	(1,505,384)	(1,325,444)	179,940	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(750,000)	(750,000)	(1,948)	(50,000)	(18,054)	31,946	
TOTAL FOR BUSINESS UNIT				946,292	946,292	(299,193)	3,509,849	3,795,012	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PLANNING & DEVELOPMENT SERVICES - Community Amenities											
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME											
			Fees and charges	441,415	360,000	360,000	24,634	145,834	175,085	29,251	Timing: may fluctuate over the course of the year
TOTAL OPERATING INCOME				441,415	360,000	360,000	24,634	145,834	175,085		
OPERATING EXPENDITURE											
			Employee costs	(1,040,130)	(1,293,932)	(1,293,932)	(132,023)	(556,926)	(474,023)	82,903	Timing/perm: vacant positions
			Materials and contracts	(172,415)	(236,429)	(236,429)	(7,777)	(104,743)	(46,571)	58,172	Timing: awaiting invoices
			Depreciation on non-current assets	(9,479)	(9,478)	(9,478)	(779)	(3,973)	(3,973)	0	
			Other expenditure	0	(20,000)	(20,000)	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(1,222,024)	(1,559,839)	(1,559,839)	(140,579)	(665,642)	(524,568)		
CAPITAL INCOME											
TOTAL CAPITAL INCOME				588,263	288,000	288,000	58,980	120,000	249,022		
CAPITAL EXPENDITURE											
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0		
Business Unit Totals											
			Operating Income	441,415	360,000	360,000	24,634	145,834	175,085	29,251	
			Operating Expenses	(1,222,024)	(1,559,839)	(1,559,839)	(140,579)	(665,642)	(524,568)	141,074	
			Capital Income	588,263	288,000	288,000	58,980	120,000	249,022	129,022	
			Capital Expenditure	-	-	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(192,345)	(911,839)	(911,839)	(56,966)	(399,808)	(100,461)		

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

LANDCARE & ENVIRONMENTAL SERVICES - Community Amenities										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	101,861	101,861	0	0	0	0	
			Fees and charges	5,000	5,000	0	3,000	2,000	0	
TOTAL OPERATING INCOME				106,861	106,861	0	3,000	2,000	0	
OPERATING EXPENDITURE										
			Employee costs	(294,114)	(294,114)	(32,725)	(126,884)	(125,910)	0	
			Materials and contracts	(669,629)	(669,629)	(11,207)	(359,574)	(27,916)	331,658	Timing/perm: Special projects works under way
			Other expenditure	(178,113)	(178,113)	(114,021)	(110,000)	(204,021)	(94,021)	Perm: LCA67 - \$170k budgeted in materials and contracts ie code to be amended at mid year budget review
TOTAL OPERATING EXPENDITURE				(1,141,856)	(1,141,856)	(157,952)	(596,458)	(357,847)	238,611	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	106,861	106,861	0	3,000	2,000	0	
			Operating Expenses	(1,141,856)	(1,141,856)	(157,952)	(596,458)	(357,847)	238,611	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(1,034,995)	(1,034,995)	(157,952)	(593,458)	(355,847)	237,611	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MAJOR PROJECTS - Recreation & Culture										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
TOTAL OPERATING INCOME				0	0	0	0	0	0	
OPERATING EXPENDITURE										
			Employee costs	(82,330)	(82,330)	(8,833)	(35,463)	(31,338)	0	
TOTAL OPERATING EXPENDITURE				(82,330)	(82,330)	(8,833)	(35,463)	(31,338)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				1,541,676	1,541,676	413,001	850,000	413,001	(436,999)	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(10,175,000)	(10,475,000)	(441,131)	(1,869,932)	(450,796)	1,419,136	
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	(82,330)	(82,330)	(8,833)	(35,463)	(31,338)	0	
			Capital Income	1,541,676	1,541,676	413,001	850,000	413,001	(436,999)	
			Capital Expenditure	(10,175,000)	(10,475,000)	(441,131)	(1,869,932)	(450,796)	1,419,136	
TOTAL FOR BUSINESS UNIT				(8,715,654)	(9,015,654)	(36,963)	(1,055,395)	(69,133)	986,262	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

COMMUNITY BUILDINGS - Recreation and Culture											
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & \$10,000	COMMENTS - MANAGERS
OPERATING INCOME											
			Operating grants, subsidies and contributions	27,914	15,700	15,700	12,488	6,551	42,986	36,435	Perm: insurance claim payment
			Fees and charges	3,852	0	0	0	0	0	0	
TOTAL OPERATING INCOME				31,766	15,700	15,700	12,488	6,551	42,986	0	
OPERATING EXPENDITURE											
			Employee costs	(266,725)	(337,458)	(337,458)	(36,526)	(145,654)	(141,413)	0	
			Materials and contracts	(1,102,056)	(1,565,355)	(1,315,359)	(143,756)	(535,080)	(350,408)	184,673	Timing: as required. Less expenditure for this month than forecast
			Utility charges	(75,875)	(15,700)	(15,700)	(2,464)	(6,551)	(18,155)	(11,604)	Perm: budget in materials and contracts ie code. To be amended at mid year budget review
			Depreciation on non-current assets	(703,228)	(730,000)	(730,000)	(116,857)	(306,000)	(595,972)	(289,972)	Perm: depreciation increased due to Land and Buildings revaluation
			Loss on Sale of Assets	(336,904)	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(2,484,877)	(2,398,517)	(2,398,517)	(299,604)	(993,285)	(1,105,948)	(112,663)	
CAPITAL INCOME											
TOTAL CAPITAL INCOME				0	0	0	0	0	0	0	
CAPITAL EXPENDITURE											
TOTAL CAPITAL EXPENDITURE				(918,089)	(1,067,672)	(1,067,672)	(42,575)	(447,000)	(119,200)	0	
Business Unit Totals											
			Operating Income	31,766	15,700	15,700	12,488	6,551	42,986	36,435	
			Operating Expenses	(2,484,877)	(2,398,517)	(2,398,517)	(299,604)	(993,285)	(1,105,948)	(112,663)	
			Capital Income	0	0	0	0	0	0	0	
			Capital Expenditure	(918,089)	(1,067,672)	(1,067,672)	(42,575)	(447,000)	(119,200)	327,800	
TOTAL FOR BUSINESS UNIT				(3,371,200)	(3,450,489)	(3,450,489)	(329,691)	(1,433,734)	(1,182,162)	251,572	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MARGARET RIVER RECREATION CENTRE Recreation and Culture										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
			OPERATING INCOME							
			Fees and charges	407,710	407,710	44,376	184,980	184,577	0	
			TOTAL OPERATING INCOME	407,710	407,710	44,376	184,980	184,577	(403)	
			OPERATING EXPENDITURE							
			Employee costs	(836,126)	(836,126)	(100,890)	(363,146)	(381,250)	(18,104)	Timing: employee Costs Aquatic Centre higher than budgeted
			Materials and contracts	(352,005)	(352,005)	(31,511)	(160,530)	(206,281)	(45,751)	Timing: indoor Sports subscriptions and memberships and Fitness Centre building maintenance
			Utility charges	(42,600)	(42,600)	(1,600)	(36,250)	(46,084)	0	
			Depreciation on non-current assets	(311,710)	(311,710)	(26,113)	(130,662)	(134,012)	0	
			Insurance expenses	0	0	(199)	0	(995)	0	
			Other expenditure	(10,000)	(10,000)	0	(5,000)	(366)	0	
			TOTAL OPERATING EXPENDITURE	(1,552,441)	(1,552,441)	(160,312)	(695,588)	(768,988)	(73,400)	
			CAPITAL INCOME							
			TOTAL CAPITAL INCOME	0	0	0	0	0	0	
			CAPITAL EXPENDITURE							
			TOTAL CAPITAL EXPENDITURE	(64,500)	(64,500)	(8,580)	(30,000)	(14,300)	15,700	
			Business Unit Totals							
			Operating Income	407,710	407,710	44,376	184,980	184,577	0	
			Operating Expenses	(1,552,441)	(1,552,441)	(160,312)	(695,588)	(768,988)	(73,400)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(64,500)	(64,500)	(8,580)	(30,000)	(14,300)	15,700	
			TOTAL FOR BUSINESS UNIT	(1,209,231)	(1,209,231)	(124,517)	(540,608)	(598,711)	(58,103)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

INDOOR SPORTS										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	102,050	102,050	8,733	44,650	39,339	0	
TOTAL OPERATING INCOME				102,050	102,050	8,733	44,650	39,339	(5,311)	
OPERATING EXPENDITURE										
			Employee costs	(485,774)	(485,774)	(61,428)	(194,093)	(192,603)	0	
			Materials and contracts	(199,525)	(199,525)	(23,191)	(98,860)	(104,773)	0	
			Utility charges	(10,600)	(10,600)	(1,600)	(4,250)	(5,145)	0	
			Depreciation on non-current assets	(102,200)	(102,200)	(21,337)	(42,840)	(108,821)	(65,981)	Perm: depreciation increased due to Land and Buildings revaluation
			Other expenditure	(10,000)	(10,000)	0	(5,000)	(239)	0	
			Loss on sale of assets	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(808,099)	(808,099)	(107,555)	(345,043)	(411,581)	(66,538)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(45,000)	(45,000)	(8,580)	(30,000)	(14,300)	15,700	
Business Unit Totals										
			Operating Income	102,050	102,050	8,733	44,650	39,339	0	
			Operating Expenses	(808,099)	(808,099)	(107,555)	(345,043)	(411,581)	(66,538)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(45,000)	(45,000)	(8,580)	(30,000)	(14,300)	15,700	
TOTAL FOR BUSINESS UNIT				(751,049)	(751,049)	(107,402)	(330,393)	(386,542)	(56,149)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

AQUATIC CENTRE										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	16,000	16,000	4,170	16,000	21,453	0	
TOTAL OPERATING INCOME				16,000	16,000	4,170	16,000	21,453	0	
OPERATING EXPENDITURE										
			Employee costs	(31,342)	(31,342)	(226)	(31,342)	(43,854)	(12,512)	Timing: building handover and shut down of centre
			Materials and contracts	(35,490)	(35,490)	(3,782)	(7,840)	(15,155)	0	
			Utility charges	(32,000)	(32,000)	0	(32,000)	(40,939)	0	
			Depreciation on non-current assets	(208,050)	(208,050)	(4,736)	(87,210)	(24,988)	62,222	Perm: reduction in depreciation due to impairment of Aquatic Centre
			Other Expenditure	0	0	0	0	(127)	0	
TOTAL OPERATING EXPENDITURE				(306,882)	(306,882)	(8,744)	(158,392)	(125,063)	33,329	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(8,000)	(8,000)	0	0	0		
Business Unit Totals										
			Operating Income	16,000	16,000	4,170	16,000	21,453	0	
			Operating Expenses	(306,882)	(306,882)	(8,744)	(158,392)	(125,063)	33,329	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(8,000)	(8,000)	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(298,882)	(298,882)	(4,574)	(142,392)	(103,609)	38,783	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

GROUP FITNESS and GYM										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	289,660	289,660	31,472	124,330	123,785	0	
TOTAL OPERATING INCOME				289,660	289,660	31,472	124,330	123,785	(545)	
OPERATING EXPENDITURE										
			Employee costs	(319,010)	(319,010)	(39,236)	(137,711)	(144,793)	0	
			Materials and contracts	(116,990)	(116,990)	(4,538)	(53,830)	(86,353)	(32,523)	Timing/perm: MR Gym relocation expenses
			Depreciation on non-current assets	(1,460)	(1,460)	(40)	(612)	(203)	0	
			Insurance expenses	0	0	(199)	0	(995)	0	
TOTAL OPERATING EXPENDITURE				(437,460)	(437,460)	(44,013)	(192,153)	(232,345)	(40,192)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(11,500)	(11,500)	0	0	0	0	
Business Unit Totals										
			Operating Income	289,660	289,660	31,472	124,330	123,785	0	
			Operating Expenses	(437,460)	(437,460)	(44,013)	(192,153)	(232,345)	(40,192)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(11,500)	(11,500)	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(159,300)	(159,300)	(12,541)	(67,823)	(108,560)	(40,737)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

GLOUCESTER PARK										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	18,000	18,000	1,807	7,500	7,086	0	
			Fees and charges	26,500	26,500	829	19,500	16,379	0	
TOTAL OPERATING INCOME				44,500	44,500	2,636	27,000	23,465	(3,535)	
OPERATING EXPENDITURE										
			Employee costs	0	0	0	0	0	0	
			Materials and contracts	(75,300)	(75,300)	(4,759)	(43,800)	(32,730)	11,070	Timing: invoices yet to be received
			Depreciation on non-current assets	(136,875)	(136,875)	(26,959)	(57,375)	(137,491)	(80,116)	Perm: depreciation increased due to Land and Buildings revaluation
			Profit on sale of assets	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(212,175)	(212,175)	(31,718)	(101,175)	(170,221)	(69,046)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				115,000	115,000	0	62,500	0	(62,500)	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(270,000)	(270,000)	(197)	(125,000)	(197)	124,803	
Business Unit Totals										
			Operating Income	44,500	44,500	2,636	27,000	23,465	0	
			Operating Expenses	(212,175)	(212,175)	(31,718)	(101,175)	(170,221)	(69,046)	
			Capital Income	115,000	115,000	0	62,500	0	(62,500)	
			Capital Expenditure	(270,000)	(270,000)	(197)	(125,000)	(197)	124,803	
TOTAL FOR BUSINESS UNIT				(322,675)	(322,675)	(29,278)	(136,675)	(146,953)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

AUGUSTA RECREATION										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	38,400	38,400	2,561	16,200	11,308	0	
TOTAL OPERATING INCOME				38,400	38,400	2,561	16,200	11,308	0	
OPERATING EXPENDITURE										
			Employee costs	(31,356)	(31,356)	(3,573)	(13,506)	(13,635)	0	
			Materials and contracts	(59,814)	(59,814)	(1,256)	(32,232)	(12,623)	19,609	Timing: building maintenance - hydro pool and gymnasium, minor equipment purchases & equipment leasing & repair
			Utility charges	(13,000)	(13,000)	(477)	(4,650)	(2,652)	0	
			Depreciation on non-current assets	(49,275)	(49,275)	(8,053)	(20,655)	(41,071)	(20,416)	Perm: depreciation increased due to Land and Buildings revaluation
TOTAL OPERATING EXPENDITURE				(153,445)	(153,445)	(13,359)	(71,043)	(69,980)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(8,500)	(8,500)	0	(8,500)	0	0	
Business Unit Totals										
			Operating Income	38,400	38,400	2,561	16,200	11,308	0	
			Operating Expenses	(153,445)	(153,445)	(13,359)	(71,043)	(69,980)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(8,500)	(8,500)	0	(8,500)	0	0	
				(123,545)	(123,545)	(10,798)	(63,343)	(58,672)	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MARGARET RIVER HEART										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	30,765	30,765	17,369	20,000	62,824	42,824	Perm: DLGSC funding payment to cover prior year losses
			Fees and charges	407,300	407,300	87,002	175,750	162,692	0	
			Other income	300	300	0	0	0	0	
TOTAL OPERATING INCOME				438,365	438,365	104,371	195,750	226,790	31,040	
OPERATING EXPENDITURE										
			Employee costs	(674,914)	(674,914)	(77,702)	(290,680)	(348,302)	(57,622)	Timing: once off payments to be balanced out with underspends by the end of the year
			Materials and contracts	(435,703)	(435,703)	(26,789)	(157,761)	(169,240)	0	
			Utility charges	(10,000)	(10,000)	(1,657)	(3,500)	(4,965)	0	
			Depreciation on non-current assets	(284,700)	(284,700)	(40,574)	(119,340)	(206,930)	(87,590)	Perm: depreciation increased due to Land and Buildings revaluation
			Other expenditure	(150,000)	(150,000)	(31,000)	(88,000)	(31,000)	57,000	Timing/perm: profiling HEART Grant Program
TOTAL OPERATING EXPENDITURE				(1,555,317)	(1,555,317)	(177,722)	(659,281)	(760,437)	(101,156)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(136,000)	(136,000)	(4,024)	(136,000)	(4,024)	131,976	
Business Unit Totals										
			Operating Income	438,365	438,365	104,371	195,750	226,790	31,040	
			Operating Expenses	(1,555,317)	(1,555,317)	(177,722)	(659,281)	(760,437)	(101,156)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(136,000)	(136,000)	(4,024)	(136,000)	(4,024)	131,976	
TOTAL FOR BUSINESS UNIT				(1,252,952)	(1,252,952)	(77,375)	(599,531)	(537,671)	61,860	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PARKS and GARDENS - Recreation and Culture										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	9,900	9,900	0	0	22,014	22,014	Perm: unbudgeted contribution
TOTAL OPERATING INCOME				9,900	9,900	0	0	22,014	22,014	
OPERATING EXPENDITURE										
			Employee costs	(659,621)	(659,621)	(59,356)	(285,338)	(224,207)	61,131	Timing: staff leave
			Materials and contracts	(1,313,579)	(1,313,579)	(171,026)	(545,455)	(374,413)	171,042	Timing: projects underway
			Depreciation on non-current assets	(689,850)	(689,850)	(60,658)	(289,170)	(309,354)	0	
TOTAL OPERATING EXPENDITURE				(2,663,050)	(2,663,050)	(291,040)	(1,119,963)	(907,974)	211,989	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	116,988	0	0	0	0	
CAPITAL EXPENDITURE										
GD89			Infrastructure Assets	(478,000)	(594,988)	28	(46,000)	(35,158)	10,842	<i>Budget Amendment OM2002/147</i>
		RES119	<i>Play equipment replacement annual program</i>	<i>(320,000)</i>	<i>(320,000)</i>	<i>28</i>	<i>0</i>	<i>(2,110)</i>	<i>0</i>	
		WK1820	<i>Riflebutts Play Space Replacement</i>	<i>0</i>	<i>0</i>	<i>28</i>	<i>0</i>	<i>(2,110)</i>	<i>0</i>	
		WK	<i>Not allocated to Work Orders</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES120	<i>Recycled water reticulation renewal</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES126	<i>Annual Allocation for POS infrastructure renewal</i>	<i>(16,000)</i>	<i>(16,000)</i>	<i>0</i>	<i>(16,000)</i>	<i>(6,882)</i>	<i>0</i>	
		WK	<i>Work Orders</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		WK	<i>Not allocated to Work Orders</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES132	<i>Annual Allocation for POS improvement</i>	<i>(72,000)</i>	<i>(188,988)</i>	<i>0</i>	<i>0</i>	<i>(26,167)</i>	<i>(26,167)</i>	<i>Budget Amendment OM2002/147</i>
		WK1801	<i>Federation Gardens POS landscape works</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>(26,167)</i>	<i>(26,167)</i>	
		WK1803	<i>Bench Seat Cowara Heights/Duggan Dr</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		WK1807	<i>MR Library Upgrade Park Furniture Infrastructure</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		WK1805	<i>Reserve 50457 - Hasluck Street Cowaramup (Funded by WK1744 Contribution)</i>	<i>0</i>	<i>(116,988)</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>Budget Amendment OM2002/147</i>
		WK	<i>Work Orders</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		WK	<i>Unallocated</i>	<i>(72,000)</i>	<i>(72,000)</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES151	<i>Augusta Main Street Landscaping (LRCIP)</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES152	<i>Witchcliffe tennis court - Renew 2 courts - multipurpose</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES153	<i>Alexandra Bridge tennis courts - Renew 2 courts - multipurpose</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES154	<i>Gloucester Park-Gloucester Park Master Plan implementation</i>	<i>(40,000)</i>	<i>(40,000)</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
		RES155	<i>Annual allocation for renewal of water tanks and stand pipes</i>	<i>(30,000)</i>	<i>(30,000)</i>	<i>0</i>	<i>(30,000)</i>	<i>0</i>	<i>30,000</i>	
			<i>Unallocated</i>	<i>0</i>	<i>(0)</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
GD96			P&G Capital Expenditure - Donated Assets	0	0	0	0	0	0	
		GDD004	<i>Donated Assets</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
			<i>Unallocated</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	
TOTAL CAPITAL EXPENDITURE				(478,000)	(594,988)	28	(46,000)	(35,158)	10,842	
Business Unit Totals										
			Operating Income	9,900	9,900	0	0	22,014	22,014	
			Operating Expenses	(2,663,050)	(2,663,050)	(291,040)	(1,119,963)	(907,974)	211,989	
			Capital Income	0	116,988	0	0	0	0	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PARKS and GARDENS - Recreation and Culture										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
			Capital Expenditure	(478,000)	(594,988)	28	(46,000)	(35,158)	10,842	
TOTAL FOR BUSINESS UNIT				(3,131,150)	(3,131,150)	(291,012)	(1,165,963)	(921,118)	244,845	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

ASSET SERVICES - Transport										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	500,200	500,200	227	208,538	227	(208,311)	Timing: income recognition - RAC Speed limit review grant, to be recognised inline with expenses
			Fees and charges	212,000	212,000	73,996	30,000	151,754	121,754	Perm: construction boom - subdivision works continued through winter at some sites
TOTAL OPERATING INCOME				712,200	712,200	74,223	238,538	151,981	(86,557)	
OPERATING EXPENDITURE										
			Employee costs	(626,352)	(626,352)	(56,439)	(282,123)	(212,932)	69,191	Perm: vacant position yet to be filled
			Materials and contracts	(1,108,086)	(1,108,086)	(8,697)	(546,258)	(98,482)	447,776	Timing: projects underway
			Utility charges	(315,900)	(315,900)	(25,926)	(131,625)	(105,597)	26,028	Timing: awaiting invoices
			Other expenditure	(4,000)	(4,000)	0	(1,666)	(44)	0	
TOTAL OPERATING EXPENDITURE				(2,054,338)	(2,054,338)	(91,063)	(961,672)	(417,055)	544,617	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(147,427)	(147,427)	0	(137,427)	(59,950)	77,477	
Business Unit Totals										
			Operating Income	712,200	712,200	74,223	238,538	151,981	(86,557)	
			Operating Expenses	(2,054,338)	(2,054,338)	(91,063)	(961,672)	(417,055)	544,617	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(147,427)	(147,427)	0	(137,427)	(59,950)	77,477	
TOTAL FOR BUSINESS UNIT				(1,489,565)	(1,489,565)	(16,840)	(860,561)	(325,024)	535,537	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CONSTRUCTION - Transport										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
CR77	63		Other Income	0	0	0	0	0	0	
TOTAL OPERATING INCOME				0	0	0	0	0	0	
OPERATING EXPENDITURE										
CR90	74		Profit (Loss) on Disposal of Assets	0	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				0	0	0	0	0	0	
CAPITAL INCOME										
CR74	74		Restricted Contributions	0	0	0	0	7,359	0	
CR75	70		Grants & Contributions	4,908,552	5,328,552	326,105	1,364,442	1,091,129	(273,313)	
		CRG03	Regional Roads Group	1,650,000	1,650,000	(460,000)	660,000	1	(659,999)	Timing: pre-funding for works scheduled
		CRG05	Main Roads Direct	284,442	284,442	0	284,442	290,560	0	
		CRG06	Roads to Recovery	649,022	649,022	9,515	0	9,515	0	
		CRG11	Regional Bicycle Network	0	0	0	0	0	0	
		CRG13	MRWA Bridge Grant	893,000	1,313,000	420,000	420,000	420,000	0	
		CRG20	Lotterywest Grant	150,000	150,000	0	0	0	0	
		CRG25	Margaret River Trail (SWDC)	0	0	0	0	0	0	
		CRG26	Local Roads & Community Infrastructure Program	0	0	352,934	0	352,934	352,934	Timing: income recognised inline with expenses
		CRG29	Regional Airports Program (DISER) Grant for Augusta Aerodrome Improvements	295,000	295,000	0	0	0	0	
		CRG31	DoT - Bussell highway from Petrol Station to Motel	135,000	135,000	0	0	0	0	
		CRG32	DoT - Andrews Way to Wadandi Track	0	0	0	0	14,463	14,463	Timing: delayed receipt of grant funding
		CRG33	Coastal Adaption Program (DoT) - Leeuwin Rd Revetment	52,501	52,501	0	0	0	0	
		CRG34	MRWA - Regional Road Safety Program (RRSP)	779,587	779,587	0	0	0	0	
		CRG35	Friends of the Cape to Cape Track (Friends of the Southwest Communities grant) - Winter Diversion	0	0	0	0	0	0	
		CRG36	Lions Club Grants & Contributions to capital projects	20,000	20,000	0	0	0	0	
		CRG37	Rapids Landing Oval drainage - Lester Group Contribution	0	0	3,656	0	3,656	0	
TOTAL CAPITAL INCOME				4,908,552	5,328,552	326,105	1,364,442	1,098,488	(265,954)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CONSTRUCTION - Transport										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
CAPITAL EXPENDITURE										
CR89			New Infrastructure	0	0	0	0	0	0	
CR94			Infrastructure Upgrades	(1,090,000)	(1,090,000)	(13,421)	(190,526)	(85,680)	104,846	Timing: projects underway
			Road Expansion	(55,000)	(55,000)	0	(22,907)	(35,441)	(12,534)	Timing: large portion of work completed
			Path - Expansion	(549,000)	(549,000)	(12,782)	(75,287)	(49,035)	26,252	Timing: projects underway
			Carpark Expansion	(131,000)	(131,000)	(639)	(67,332)	(1,204)	66,128	Timing: occurring post Christmas
			Airport Upgrading	(355,000)	(355,000)	0	(25,000)	0	25,000	Timing/perm: profiling
CR95			Infrastructure Renewals	(7,464,394)	(7,884,394)	(450,663)	(2,219,238)	(1,689,327)	529,911	Timing: projects underway
			Bridge Preservation	(1,013,000)	(1,433,000)	(20,235)	(420,000)	(443,091)	0	
			Road Preservation	(1,859,594)	(1,859,594)	(56,343)	(561,828)	(547,376)	0	
			Road Rehabilitation	(2,725,000)	(2,725,000)	(230,091)	(605,000)	(398,630)	206,370	Timing: budget profile
			Rural - Gravel Resheeting	(600,500)	(600,500)	(144,326)	(333,610)	(244,911)	88,699	Timing: projects underway, likely bulk expenditure after March 23
			Path - Preservation	(241,000)	(241,000)	(46)	(60,000)	(637)	59,363	Timing: projects commencing in Nov 22
			Carpark - Preservation	0	0	377	0	0	0	
			Pedestrian Structures - Preservation	(40,000)	(40,000)	0	0	0	0	
			Drainage - Preservation	(325,000)	(325,000)	1	(150,000)	(24,483)	125,517	Timing: rain delay to program
			Kerb - Preservation	(6,500)	(6,500)	0	0	(326)	0	
			Marine Facilities - Preservation	(653,800)	(653,800)	0	(88,800)	(29,872)	58,928	Timing: major works commence in Feb 23
TOTAL CAPITAL EXPENDITURE				(8,554,394)	(8,974,394)	(464,084)	(2,409,764)	(1,775,007)	634,757	
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	0	0	0	0	0	0	
			Capital Income	4,908,552	5,328,552	326,105	1,364,442	1,098,488	(265,954)	
			Capital Expenditure	(8,554,394)	(8,974,394)	(464,084)	(2,409,764)	(1,775,007)	634,757	
TOTAL FOR BUSINESS UNIT				(3,645,842)	(3,645,842)	(137,978)	(1,045,322)	(676,519)	368,803	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

MAINTENANCE - Transport										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	250,000	250,000	0	0	0	0	
TOTAL OPERATING INCOME				250,000	250,000	0	0	0	0	
OPERATING EXPENDITURE										
			Employee costs	(1,179,222)	(1,179,222)	(56,818)	(478,470)	(371,700)	106,770	Timing: vacant positions
			Materials and contracts	(3,229,178)	(3,229,178)	(502,246)	(1,235,181)	(1,737,359)	(502,178)	Timing: budget profiling
			Depreciation on non-current assets	(6,752,500)	(6,752,500)	(584,855)	(2,830,500)	(2,982,760)	0	
TOTAL OPERATING EXPENDITURE				(11,160,900)	(11,160,900)	(1,143,919)	(4,544,151)	(5,091,820)	(547,669)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	250,000	250,000	0	0	0	0	
			Operating Expenses	(11,160,900)	(11,160,900)	(1,143,919)	(4,544,151)	(5,091,820)	(547,669)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(10,910,900)	(10,910,900)	(1,143,919)	(4,544,151)	(5,091,820)	(547,669)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PLANT PROGRAM - Transport										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Profit on Sale of Assets	19,149	19,149	0	0	8,333	0	
TOTAL OPERATING INCOME				19,149	19,149	0	0	8,333	0	
OPERATING EXPENDITURE										
			Materials and contracts	(30,000)	(30,000)	(4,596)	(12,000)	(7,687)	0	
			Loss on Sale of Assets	(45,440)	(45,440)	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(75,440)	(75,440)	(4,596)	(12,000)	(7,687)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				356,600	356,600	0	45,000	47,680	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(1,576,360)	(1,576,360)	0	(278,060)	(119,636)	158,424	
Business Unit Totals										
			Operating Income	19,149	19,149	0	0	8,333	0	
			Operating Expenses	(75,440)	(75,440)	(4,596)	(12,000)	(7,687)	0	
			Capital Income	356,600	356,600	0	45,000	47,680	0	
			Capital Expenditure	(1,576,360)	(1,576,360)	0	(278,060)	(119,636)	158,424	
TOTAL FOR BUSINESS UNIT				(1,276,052)	(1,276,052)	(4,596)	(245,060)	(71,310)	173,750	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CARAVAN PARKS - Economic Services										
Turner & Flinders Bay Holiday Parks, Alexandra Bridge Campground										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	2,687,800	2,687,800	193,701	623,700	610,127	0	
TOTAL OPERATING INCOME				2,687,800	2,687,800	193,701	623,700	610,127	0	
OPERATING EXPENDITURE - ALL PARKS										
			Employee costs	(842,046)	(842,046)	(90,412)	(363,309)	(303,956)	59,353	Timing/perm: vacant positions
			Materials and contracts	(421,050)	(421,050)	(16,971)	(251,000)	(123,440)	127,560	Timing: Projects
			Utility charges	(172,850)	(172,850)	(8,110)	(44,500)	(44,731)	0	
			Depreciation on non-current assets	(127,750)	(127,750)	(20,168)	(53,550)	(103,624)	(50,074)	Perm: depreciation increased due to Land and Buildings revaluation
TOTAL OPERATING EXPENDITURE				(1,563,696)	(1,563,696)	(135,662)	(712,359)	(577,844)	134,515	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				(110,000)	(110,000)	(22,726)	(110,000)	(56,445)	53,555	
Business Unit Totals										
			Operating Income	2,687,800	2,687,800	193,701	623,700	610,127	0	
			Operating Expenses	(1,563,696)	(1,563,696)	(135,662)	(712,359)	(577,844)	134,515	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	(110,000)	(110,000)	(22,726)	(110,000)	(56,445)	53,555	
TOTAL FOR BUSINESS UNIT				1,014,104	1,014,104	35,314	(198,659)	(24,162)	174,497	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

BUILDING SERVICES - Economic Services										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	301,200	301,200	22,048	125,500	152,546	27,046	Timing: may fluctuate over the course of the year
TOTAL OPERATING INCOME				301,200	301,200	22,048	125,500	152,546	27,046	
OPERATING EXPENDITURE										
			Employee costs	(224,358)	(224,358)	(26,730)	(96,608)	(91,968)	0	
			Materials and contracts	(18,460)	(18,460)	(2,636)	(6,275)	(6,020)	0	
TOTAL OPERATING EXPENDITURE				(242,818)	(242,818)	(30,724)	(102,883)	(100,699)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	301,200	301,200	22,048	125,500	152,546	27,046	
			Operating Expenses	(242,818)	(242,818)	(30,724)	(102,883)	(100,699)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				58,382	58,382	(8,676)	22,617	51,847	29,230	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

SUSTAINABLE ECONOMY - Economic Services										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	0	0	0	0	1,000	0	
			Fees and charges	0	0	0	0	0	0	
			Other income	0	0	0	0	17	0	
TOTAL OPERATING INCOME				0	0	0	0	1,017	0	
OPERATING EXPENDITURE										
			Employee costs	(88,846)	(88,846)	(10,495)	(38,250)	(33,884)	0	
			Materials and contracts	(48,660)	(48,660)	(1,162)	(15,559)	(6,577)	0	
			Other expenditure	(75,000)	(75,000)	(5,000)	(37,500)	(35,000)	0	
TOTAL OPERATING EXPENDITURE				(212,506)	(212,506)	(16,658)	(91,309)	(75,460)	15,849	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	0	0	0	0	1,017	0	
			Operating Expenses	(212,506)	(212,506)	(16,658)	(91,309)	(75,460)	15,849	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(212,506)	(212,506)	(16,658)	(91,309)	(74,444)	16,865	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PUBLIC WORKS OVERHEADS - Other Property and Services										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	0	0	2,338	0	7,565	0	
			Profit on sale of asset	0	0	0	0	0	0	
TOTAL OPERATING INCOME				0	0	2,338	0	7,565	0	
OPERATING EXPENDITURE										
			Employee costs	(2,279,677)	(2,279,677)	(225,752)	(1,000,594)	(892,273)	108,320	Timing: vacant positions
			Materials and contracts	2,085,446	2,085,446	144,096	891,779	452,747	(439,032)	Timing: minimal construction through winter
			Utility charges	(18,315)	(18,315)	(1,252)	(7,631)	(5,046)	0	
			Depreciation on non-current assets	(40,880)	(40,880)	(7,315)	(17,136)	(37,526)	(20,390)	Perm: depreciation increased due to Land and Buildings revaluation
TOTAL OPERATING EXPENDITURE				(253,426)	(253,426)	(90,222)	(133,582)	(482,099)	(348,517)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	0	0	2,338	0	7,565	0	
			Operating Expenses	(253,426)	(253,426)	(90,222)	(133,582)	(482,099)	(348,517)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				(253,426)	(253,426)	(87,885)	(133,582)	(474,534)	(340,952)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

PLANT OPERATING COSTS - Other Property and Services										
COA	IE	JOB	DESCRIPTION	2022-23 Original Budget	2022-23 Amended Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Fees and charges	0	0	0	0	0	0	
TOTAL OPERATING INCOME				0	0	0	0	0	0	
OPERATING EXPENDITURE										
			Employee costs	(308,188)	(308,188)	(23,999)	(132,673)	(96,001)	36,672	Perm: reduced workforce currently
			Materials and contracts	1,425,890	1,425,890	193,478	648,078	396,660	(251,418)	Timing: projects underway
			Depreciation on non-current assets	(865,074)	(865,074)	(56,852)	(362,620)	(307,677)	54,943	Timing/perm: depreciation on plant lower due to delays in plant delivery and ROU to be processed
			Interest expenses	0	0	0	0	0	0	
			Insurance expenses	(82,000)	(82,000)	0	(79,000)	(47,915)	31,085	Timing: yet to allocate insurance
TOTAL OPERATING EXPENDITURE				170,628	170,628	112,081	73,785	(54,934)	(128,719)	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	0	0	0	0	0	0	
			Operating Expenses	170,628	170,628	112,081	73,785	(54,934)	(128,719)	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				170,628	170,628	112,081	73,785	(54,934)	(128,719)	

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

OTHER PROPERTY & SERVICES - Other Property and Services										
COA	IE	JOB	DESCRIPTION	2021-22 Last Year Actual	2022-23 Original Budget	Month of November 22	YTD BUDGET	2022-23 YTD Actual	>10% & > \$10,000	COMMENTS - MANAGERS
OPERATING INCOME										
			Operating grants, subsidies and contributions	28,857	8,000	0	2,000	4,368	0	
			Fees and charges	125,285	36,000	0	35,000	0	(35,000)	Timing: awaiting receipt of limesand royalties
			Other income	130,179	0	0	0	0	0	
TOTAL OPERATING INCOME				284,321	44,000	0	37,000	4,368	(32,632)	
OPERATING EXPENDITURE										
			Employee costs	(115,260)	(8,000)	0	(2,000)	(92)	0	
			Materials and contracts	(1,618)	(3,000)	(340)	0	(6,387)	0	
			Insurance expenses	(82,723)	0	0	0	0	0	
			Loss on Disposal of Assets	130,179	0	0	0	0	0	
TOTAL OPERATING EXPENDITURE				(69,421)	(11,000)	(340)	(2,000)	(6,478)	0	
CAPITAL INCOME										
TOTAL CAPITAL INCOME				0	0	0	0	0	0	
CAPITAL EXPENDITURE										
TOTAL CAPITAL EXPENDITURE				0	0	0	0	0	0	
Business Unit Totals										
			Operating Income	284,321	44,000	0	37,000	4,368	(32,632)	
			Operating Expenses	(69,421)	(11,000)	(340)	(2,000)	(6,478)	0	
			Capital Income	0	0	0	0	0	0	
			Capital Expenditure	0	0	0	0	0	0	
TOTAL FOR BUSINESS UNIT				214,900	33,000	(340)	35,000	(2,110)	(37,110)	

SHIRE OF AUGUSTA MARGARET RIVER ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CAPITAL WORKS PROGRAM 2022-23 - NOVEMBER 2022 PROGRESS REPORT

Job	COA	Detailed description	Locality	Start date	End date	Business Unit	Reporting Officer	2022-23 Budget	Category	November 2022 Budget YTD	November 2022 Actual YTD	Variance
CB5185	HAB8	Witchcliffe Public Toilets - replacement	Witchcliffe	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 280,000	Renewal	\$ 150,000	\$ -	\$ 150,000
CB5193	HAB8	Machinery Storage Shed at Cowaramup Oval	Cowaramup	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 70,000	New	\$ 70,000	\$ 41,179	\$ 28,821
CB5196	HAB8	MRCAC replacement of southern wall weatherboards	All	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 150,000	Renewal	\$ 150,000	\$ 1,080	\$ 148,920
CB5198	HAB8	MRCAC fire alarm and detection service	All	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 150,000	New	\$ -	\$ -	\$ -
CB5209	HAB8	Augusta Centennial Hall - floor sanding, removal of redundant HVAC, etc	Augusta	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 30,000	Renewal	\$ 30,000	\$ 19,410	\$ 10,590
CB5200	HAB8	Cowaramup Hall - reseal timber windows and doors	Cowaramup	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 10,000	Renewal	\$ -	\$ 6,250	\$ 6,250
CB5210	HAB8	Cowaramup Tennis Club - septic system renewal	Cowaramup	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 15,000	Renewal	\$ 15,000	\$ -	\$ 15,000
CB5211	HAB8	Augusta Croquet and Tennis Club - removal of internal wall and installation of concertina doors	Augusta	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 25,000	Renewal	\$ -	\$ -	\$ -
CB5212	HAB8	Margaret River Library - internal lighting upgrade	Margaret River	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 45,000	Upgrade/expansion	\$ -	\$ 28,420	\$ 28,420
CB5206	HAB8	Witchcliffe CWA Hall - renewal and upgrade	Witchcliffe	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 200,000	Renewal	\$ -	\$ 3,584	\$ 3,584
CB5205	HAB9	Karridale Hall - water tank	Karridale	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 12,000	Renewal	\$ 12,000	\$ 5,076	\$ 6,924
CB5159	HAB8	Asbestos removal and replacement works	All	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 60,672	Renewal	\$ -	\$ -	\$ -
CB5191	HAB8	Augusta Civic Park - review of facility upgrade for childcare centre	Augusta	1/07/2022	30/06/2023	Community Buildings	James Shepherd	\$ -	Renewal	\$ -	\$ 14,200	\$ 14,200
FC005	FC89	Margaret River Recreation Centre - sliding doors for group fitness room	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 11,500	Upgrade/expansion	\$ -	\$ -	\$ -
GPP041	GF98	Gloucester Park - multi Club Storage Shed	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 60,000	New	\$ -	\$ 197	\$ 197
GPS036	GF89	MR Bowling Club - LED lighting	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 10,000	Upgrade/expansion	\$ -	\$ -	\$ -
IRC011	IR88	Margaret River Recreation Centre - airflow upgrades to building	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 10,000	Upgrade/expansion	\$ -	\$ -	\$ 10,000
IRC012	IR88	Margaret River Recreation Centre - safe building entrance access control	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 20,000	Upgrade/expansion	\$ 20,000	\$ 14,300	\$ 5,700
ARB06	AR88	Augusta Recreation Centre - safety cage for pool chemicals	Augusta	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 8,500	Renewal	\$ 8,500	\$ -	\$ 8,500
MPC01	MP88	Margaret River Aquatic Centre Redevelopment	Margaret River	1/07/2022	30/06/2023	Major Projects	Chris Yates	\$ 8,730,000	Renewal	\$ 839,932	\$ 412,358	\$ 427,574
CB5182	MP88	Margaret River Aquatic Centre - Design and Superintendency	Margaret River	1/07/2022	30/06/2023	Major Projects	Chris Yates	\$ 425,000	Renewal	\$ 180,000	\$ 37,795	\$ 142,205
MPC04	MP88	Margaret River Aquatic Centre - Changing Places facility	Margaret River	1/07/2022	30/06/2023	Major Projects	Chris Yates	\$ 170,000	Renewal	\$ -	\$ -	\$ -
MPC02	MP88	HEART fire compliance and ventilation	All	1/07/2022	30/06/2023	Major Projects	Chris Yates	\$ 500,000	Renewal	\$ 500,000	\$ 321	\$ 499,679
MPC03	MP88	HEART theatre flooring	All	1/07/2022	30/06/2023	Major Projects	Chris Yates	\$ 350,000	Renewal	\$ 350,000	\$ 321	\$ 349,679
ACC23	AC97	Margaret River Aquatic Centre - office furniture for first aid room and storage	All	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 8,000	Renewal	\$ -	\$ -	\$ -
CC08	CC88	HEART Courtyard drainage solution	All	1/07/2022	30/06/2023	HEART	Jason Cleary	\$ 50,000	New	\$ 50,000	\$ 3,769	\$ 46,231
CCC15	CC88	HEART Main Theatre seating changes	All	1/07/2022	30/06/2023	HEART	Jason Cleary	\$ 25,000	New	\$ 25,000	\$ -	\$ 25,000
CCC02	CC97	HEART courtyard furnishings	All	1/07/2022	30/06/2023	HEART	Jason Cleary	\$ 11,000	New	\$ 11,000	\$ -	\$ 11,000
CCC06	CC97	HEART public art	All	1/07/2022	30/06/2023	HEART	Jason Cleary	\$ 50,000	New	\$ 50,000	\$ -	\$ 50,000
ICT007	IT97	MRCAC - Upgrades to Chambers and Mainback AV systems	All	1/07/2022	30/06/2023	ICT	Oscar Adrian	\$ 100,000	Upgrade/expansion	\$ 100,000	\$ -	\$ 100,000
ICT008	IT97	Disaster Recovery storage and network solution	All	1/07/2022	30/06/2023	ICT	Oscar Adrian	\$ 55,000	Upgrade/expansion	\$ 55,000	\$ -	\$ 55,000
ICT009	IT89	HEART - network switch	All	1/07/2022	30/06/2023	ICT	Oscar Adrian	\$ 7,000	Upgrade/expansion	\$ -	\$ -	\$ -
ICT004	IT97	Replacement core switches	All	1/07/2022	30/06/2023	ICT	Oscar Adrian	\$ 12,000	Upgrade/expansion	\$ 12,000	\$ -	\$ 12,000
ICT005	IT97	Airgap backup solution	All	1/07/2022	30/06/2023	ICT	Oscar Adrian	\$ 15,030	Upgrade/expansion	\$ 15,030	\$ -	\$ 15,030
IRC014	IR97	Margaret River Recreation Centre - fit out for new office and conference room	All	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 15,000	New	\$ -	\$ -	\$ -
WAS527	WA70	Davis Road Tip - capping and rehabilitation of active landfill area	All	1/07/2022	30/06/2023	Waste Services	Chris Yates	\$ 500,000	Upgrade/expansion	\$ -	\$ 2,443	\$ 2,443
WAS55	WA70	Development of Davis Rd Recycling & Waste Transfer Station	All	1/07/2022	30/06/2023	Waste Services	Chris Yates	\$ 150,000	Upgrade/expansion	\$ -	\$ -	\$ -
WAS29	WA70	Davis Road Tip - internal road sealing	All	1/07/2022	30/06/2023	Waste Services	Chris Yates	\$ 50,000	Renewal	\$ -	\$ -	\$ -
WAS49	WA72	Davis Road tip - security cameras/lights	All	1/07/2022	30/06/2023	Waste Services	Chris Yates	\$ 30,000	Renewal	\$ 30,000	\$ 15,611	\$ 14,389
AUA04	CR94	Margaret River airstrip - illuminated wind sock	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 25,000	Renewal	\$ 25,000	\$ -	\$ 25,000
AUA03	CR94	Augusta airstrip - relocation of Augusta Aero Cub	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 35,000	Upgrade/expansion	\$ -	\$ -	\$ -
AUA02	CR94	Augusta aerodrome improvements	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 295,000	Upgrade/expansion	\$ -	\$ -	\$ -
FFS31	CR95	Ellis Street jetty - replacement of steelwork	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 185,000	Renewal	\$ -	\$ -	\$ -
FFS19	CR95	Alexandra Bridge campground riverside platform	Alexandra Bridge	1/07/2022	30/06/2023	Construction	James Taylor	\$ 32,000	Renewal	\$ 32,000	\$ -	\$ 32,000
FFS27	CR95	Alexandra Bridge Foreshore Management Plan implementation	Alexandra Bridge	1/07/2022	30/06/2023	Construction	James Taylor	\$ 60,000	Renewal	\$ 30,000	\$ -	\$ 30,000
FFS17	CR95	Augusta Foreshore walls	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 350,000	Renewal	\$ -	\$ 620	\$ 620
FFS28	CR95	East Augusta Jetty Refurbishment	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 26,800	Renewal	\$ 26,800	\$ 29,252	\$ 2,452
CPN29	CR94	Formalise carparking for Blackwood Avenue outside bakery	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 101,000	Upgrade/expansion	\$ 67,332	\$ 1,204	\$ 66,128
CPN80	CR94	Witchcliffe CWA Hall - formalisation of gravel carpark including ACROD bay and access path	Witchcliffe	1/07/2022	30/06/2023	Construction	James Taylor	\$ 30,000	Upgrade/expansion	\$ -	\$ -	\$ -
TIA41	TY89	Reimbursement to DoE for Station Road drainage and basin (Year 1 of 3)	Margaret River	1/07/2022	30/06/2023	Assets	David Nicholson	\$ 60,000	Upgrade/expansion	\$ 60,000	\$ 55,000	\$ 5,000
DO24	CR95	Fantail Place - 0.23 - 750 pipe dredging	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 50,000	Renewal	\$ 50,000	\$ 1,581	\$ 48,419
DO25	CR95	Palmer Road - replacement of drainage culvert (SKL 0.25)	Cowaramup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 50,000	Renewal	\$ -	\$ -	\$ -
DO26	CR95	Ablett Road - culvert renewal	Cowaramup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 10,000	Renewal	\$ 10,000	\$ 75	\$ 9,925
DO27	CR95	Low Road - culvert renewal	Rosa Glen	1/07/2022	30/06/2023	Construction	James Taylor	\$ 25,000	Renewal	\$ 25,000	\$ 75	\$ 24,925
DO28	CR95	Manear Road - culvert renewal	Rosa Glen	1/07/2022	30/06/2023	Construction	James Taylor	\$ 25,000	Renewal	\$ 25,000	\$ 75	\$ 24,925
DO29	CR95	Clayton Road - culvert renewal	Treatton	1/07/2022	30/06/2023	Construction	James Taylor	\$ 15,000	Renewal	\$ 15,000	\$ -	\$ 15,000
DO30	CR95	Vliem Road - culvert renewal	Karridale	1/07/2022	30/06/2023	Construction	James Taylor	\$ 25,000	Renewal	\$ 25,000	\$ -	\$ 25,000
DO31	CR95	Kudardup Road - culvert replacement	Kudardup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 20,000	Renewal	\$ -	\$ -	\$ -
DO22	CR95	Mann Street - culvert upgrade	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 105,000	Upgrade/expansion	\$ -	\$ 22,676	\$ 22,676
TIA26	TY89	Augusta Interpretation Plan implementation	Augusta	1/07/2022	30/06/2023	Assets	David Nicholson	\$ 20,000	Upgrade/expansion	\$ 10,000	\$ 4,950	\$ 5,050
CB5189	HAB9	Gloucester Park water supply upgrade - carryover	Margaret River	1/07/2022	30/06/2023	Community Buildings	Dave Gunn	\$ 20,000	Upgrade/expansion	\$ 20,000	\$ -	\$ 20,000
RES119	GD89	Riflebutts - play unit, slide, dual swing, dish swing, shade sail, softfall	Prevelly	1/07/2022	30/06/2023	Construction	James Taylor	\$ 320,000	Renewal	\$ -	\$ 2,110	\$ 2,110
RES132	GD89	Annual POS renewal	Prevelly	1/07/2022	30/06/2023	Construction	James Taylor	\$ 72,000	Upgrade/expansion	\$ -	\$ 26,167	\$ 26,167
RES126	GD89	POS renewal works	All	1/07/2022	30/06/2023	Construction	James Taylor	\$ 16,000	Renewal	\$ 16,000	\$ 6,882	\$ 9,118
RES154	GD89	Gloucester Park Master Plan implementation	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 40,000	Upgrade/expansion	\$ -	\$ -	\$ -
RES155	GD89	Annual allocation for renewal of water tanks and stand pipes	All	1/07/2022	30/06/2023	Construction	James Taylor	\$ 30,000	Renewal	\$ 30,000	\$ -	\$ 30,000

SHIRE OF AUGUSTA MARGARET RIVER
ORDINARY COUNCIL MEETING AGENDA 25 JANUARY 2023

CAPITAL WORKS PROGRAM 2022-23 - NOVEMBER 2022 PROGRESS REPORT												
Job	COA	Detailed description	Locality	Start date	End date	Business Unit	Reporting Officer	2022-23 Budget	Category	November 2022 Budget YTD	November 2022 Actual YTD	Variance
PE007	CR95	Works to Minnie Keenan, Alfred Bussell and Barrett Street trails	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 40,000	Upgrade/expansion	\$ -	\$ -	\$ -
GPP037	GP89	Gloucester Park - outdoor Multi use space Half-court	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 100,000	New	\$ 50,000	\$ -	\$ 50,000
GPP043	GP89	Gloucester Park - Western Playing Field shelters	Margaret River	1/07/2022	30/06/2023	Recreation Services	Dylan Brown	\$ 100,000	New	\$ -	\$ 75,000	\$ 75,000
RG012	RC89	DEA fencing and infrastructure	Margaret River	1/07/2022	30/06/2023	Rangers	Ian McLeod	\$ 50,000	New	\$ -	\$ -	\$ -
TIA40	TY89	Reimbursement to DoE for Forrest Road parking and pathway	Margaret River	1/07/2022	30/06/2023	Assets	David Nicholson	\$ 47,427	Upgrade/expansion	\$ 47,427	\$ -	\$ 47,427
PAP27	CR95	Station Road - replace aging infrastructure- Concrete	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 60,000	Renewal	\$ 60,000	\$ -	\$ 60,000
PAP13	CR95	Wallcliffe Cycle Path - upgrade of existing path (SLK 3.84 to SLK 4.73), west to Kevill Rd west from Kevill Rd East	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 76,000	Renewal	\$ -	\$ 637	\$ 637
PXN030	CR94	Homestead way - expansion parking to existing path PW-470	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 18,000	Upgrade/expansion	\$ -	\$ 23,484	\$ 23,484
PXN031	CR94	The Boulevard - connect western end of path to pram ramp	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 6,000	Upgrade/expansion	\$ 6,000	\$ -	\$ 6,000
PXN032	CR94	2 - 2.5m concrete shared path, Station Rd to Bussell Highway	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 270,000	Upgrade/expansion	\$ -	\$ 18,258	\$ 18,258
PXN033	CR94	50m 2m concrete shared path with parallel parking bays, Fronting Augusta bakery	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 55,000	Upgrade/expansion	\$ 55,000	\$ 7,293	\$ 47,707
PXN013	CR94	Flinders Bay to Cape Leeuwin Path - design and preliminary works	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 100,000	Upgrade/expansion	\$ 14,287	\$ -	\$ 14,287
PXN002	CR94	Wadandi Track - upgrade Carters Road to Cowaramup	Cowaramup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 100,000	Upgrade/expansion	\$ -	\$ -	\$ -
PAP25	CR95	Leeuwin revetment	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 105,000	Renewal	\$ -	\$ -	\$ -
CAR25	CR95	Warner Glen bridge RB3236 - emergency repairs	Warner Glen	1/07/2022	30/06/2023	Construction	James Taylor	\$ 350,000	Renewal	\$ -	\$ 23,091	\$ 23,091
CAR23	CR95	Jindong Treeton bridge RB4569 - replace bridge with 5 culverts	Treeton	1/07/2022	30/06/2023	Construction	James Taylor	\$ 663,000	Renewal	\$ -	\$ -	\$ -
TIA318	TY89	Margaret River main street wayfinding, parking signs	Margaret River	1/07/2022	30/06/2023	Assets	David Nicholson	\$ 20,000	Upgrade/expansion	\$ 20,000	\$ -	\$ 20,000
RNR003	CR95	Cowaramup Bay Road - Rehabilitation, surface repair, reshoulder, resurfacing and line marking	Cowaramup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 750,000	Renewal	\$ -	\$ 235,097	\$ 235,097
RNR030	CR95	Warner Glen Road - reconstruct and resal	Warner Glen	1/07/2022	30/06/2023	Construction	James Taylor	\$ 750,000	Renewal	\$ 500,000	\$ 32,176	\$ 467,824
RNR010	CR95	Leeuwin Road - second seal and linemarking	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 105,000	Renewal	\$ 105,000	\$ 33,505	\$ 71,495
RNR083	CR95	Jindong Treeton Road - second seal and linemarking	Treeton	1/07/2022	30/06/2023	Construction	James Taylor	\$ 120,000	Renewal	\$ -	\$ 24,050	\$ 24,050
RNR045	CR95	Rosa Brook Road - rehabilitation, small reconstruction, spray seal, and drainage works	Rosa Brook	1/07/2022	30/06/2023	Construction	James Taylor	\$ 750,000	Renewal	\$ -	\$ 60,678	\$ 60,678
RNR116	CR95	Carters Road - rectification of embankment on eastern section of Carters Road	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 250,000	Renewal	\$ -	\$ 13,363	\$ 13,363
T998	CR95	Gravel resheeting (incl \$50,500 carryover)	All	1/07/2022	30/06/2023	Construction	James Taylor	\$ 600,500	Renewal	\$ 333,610	\$ 247,413	\$ 86,197
KEP01	CR95	Kerbs required to support Augusta Bakery pathway works	Augusta	1/07/2022	30/06/2023	Construction	James Taylor	\$ 6,500	Renewal	\$ -	\$ 326	\$ 326
X995	CR95	Regional Road Safety Program works	All	1/07/2022	30/06/2023	Construction	James Taylor	\$ 779,594	Renewal	\$ 329,828	\$ 459,358	\$ 129,300
X998	CR95	Asphalt overlays	All	1/07/2022	30/06/2023	Construction	James Taylor	\$ 580,000	Renewal	\$ 232,000	\$ 50,146	\$ 181,854
X999	CR95	Rural Reseals	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 200,000	Renewal	\$ -	\$ 36,840	\$ 36,840
X996	CR95	Glenarty Road - reconstruct and widen	Karridale	1/07/2022	30/06/2023	Construction	James Taylor	\$ 300,000	Upgrade/expansion	\$ -	\$ 1,032	\$ 1,032
REM11	CR94	Gloucester Park roads	Margaret River	1/07/2022	30/06/2023	Construction	James Taylor	\$ 55,000	Upgrade/expansion	\$ 22,907	\$ 35,441	\$ 12,534
FBA038	TU89	FBHP upgrades to greywater system	Augusta	1/07/2022	30/06/2023	Holiday Parks	Nigel Anderson	\$ 100,000	Renewal	\$ 100,000	\$ 52,165	\$ 47,835
FBA040	TU89	FBHP new entry signage	Augusta	1/07/2022	30/06/2023	Holiday Parks	Nigel Anderson	\$ 10,000	Renewal	\$ 10,000	\$ -	\$ 10,000
FP013	FP89	Water tank - Flinders Bay	Augusta	1/07/2022	30/06/2023	Fire Prevention	Adam Jasper	\$ 14,327	New	\$ 14,327	\$ -	\$ 14,327
WA559	WA93	4 in 1 loader bucket	All	1/07/2022	30/06/2023	Waste Services	Chris Yates	\$ 20,000	Renewal	\$ 20,000	\$ -	\$ 20,000
RPP217	RP93	Replace AU27699 Nissan UD GW470 6 wheel tip truck BRIGGS	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 230,000	Renewal	\$ -	\$ -	\$ -
RPP218	RP93	Replace Kubota ZD331LP-72 Zero Turn Mower AU30829	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 22,500	Renewal	\$ 22,500	\$ -	\$ 22,500
RPP219	RP93	Replace Toro Z Master 2000 KAW FX651 LEW0977	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 17,120	Renewal	\$ 17,120	\$ 15,591	\$ 1,529
RPP228	RP93	Replace P150239 2020 Kubota ZD221-54 Zero Turn Mower	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 19,000	Renewal	\$ -	\$ -	\$ -
RPP229	RP93	Replace P061815 2018 Peruzzo Elk Flail Mower (Mulcher)	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 9,300	Renewal	\$ -	\$ -	\$ -
RPP230	RP93	Replace AU28380 JCB Telehandler 531-70	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 159,200	Renewal	\$ -	\$ -	\$ -
RPP231	RP93	Replace AU29483 Caterpillar 259B3AC Skid Steer Loader	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 118,900	Renewal	\$ -	\$ -	\$ -
RPP232	RP93	Replace AU30404 Isuzu Truck NLR200 4x2 MY13 Short Tipper	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 56,300	Renewal	\$ -	\$ -	\$ -
RPP233	RP93	Replace AU30866 Isuzu Truck NLR45	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 44,900	Renewal	\$ -	\$ -	\$ -
RPP234	RP93	Replace AU31136 Isuzu NPR55-155AMT Tip Truck	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 70,200	Renewal	\$ -	\$ -	\$ -
RPP209	RP93	Replace AU29783 Mitsubishi Triton GLX TD auto Space Cab 4x4 MY17 (tipping)	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 45,300	Renewal	\$ 45,300	\$ 45,496	\$ 196
RPP236	RP93	Replace AU31529 2017 Ford Escape ZG AWD Trend Wagon 2.0t Turbo Diesel Automatic with hybrid	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 35,500	Renewal	\$ -	\$ -	\$ -
RPP237	RP93	Replace AU31386 2017 Mitsubishi ASX LS AWD MY17 - replace with hybrid	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 40,000	Renewal	\$ -	\$ -	\$ -
RPP238	RP93	Replace AU30961 2017 Nissan Navara SL dual cab 4x4	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 40,000	Renewal	\$ -	\$ -	\$ -
RPP239	RP93	Replace AU30962 2017 Nissan Navara SL Dual Cab 4x4	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 55,000	Renewal	\$ -	\$ -	\$ -
RPP240	RP93	Replace AU30964 2017 Nissan Navara Tray Top	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 50,000	Renewal	\$ -	\$ -	\$ -
RPP241	RP93	Replace AU30966 2017 Nissan Navara Dual Cab Tray top 4x4	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 50,000	Renewal	\$ -	\$ -	\$ -
RPP242	RP93	Replace AU30967 2017 Nissan Navara SL Dual Cab 4x4	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 55,000	Renewal	\$ -	\$ -	\$ -
RPP245	RP93	Purchase 3 way tipper	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 58,140	New	\$ 58,140	\$ 58,140	\$ -
RPP245	RP93	Purchase of 2.5t excavator	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 65,000	New	\$ 65,000	\$ -	\$ 65,000
RPP243	RP93	Purchase of loader	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 250,000	New	\$ -	\$ -	\$ -
RPP244	RP93	Purchase of 7-8 seat people mover	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 65,000	New	\$ 65,000	\$ -	\$ 65,000
RPPM	RP93	Small asset purchases	All	1/07/2022	30/06/2023	Workshop	James Taylor	\$ 20,000	Renewal	\$ 5,000	\$ 410	\$ 4,591
		Adjustment for amounts to be expended								\$ 5,236	\$ 5,236	\$ -
		Total as per Adopted Budget						\$ 23,591,210		\$ 5,424,040	\$ 2,236,500	\$ 3,187,540
		Budget Amendments										
CAR21	CR95	Warner Glen Bridge	Warner Glen	1/07/2022	30/06/2023	Construction	James Taylor	\$ 420,000	Renewal	\$ 420,000	\$ 420,000	\$ -
RES132	GDB8	Hasluck Street Reserve, Cowaramup	Cowaramup	1/07/2022	30/06/2023	Construction	James Taylor	\$ 116,988	Renewal	\$ -	\$ -	\$ -
		Total as per Amended Budget						\$ 24,128,198		\$ 5,844,040	\$ 2,656,500	\$ 3,187,540