

Agenda Ordinary Council Meeting

11 March 2025



NOTICE OF MEETING

Dear Council Member,

The next Ordinary Meeting of Council will be held in the Council Chamber at 6.30pm on Tuesday, 12 December 2023.

The attached agenda is presented for your consideration.

Yours sincerely,



Jason Whiteaker
CHIEF EXECUTIVE OFFICER

Please Note

If a Council Member has a query regarding a report item or requires additional information in relation to a report item, please contact the senior employee (noted in the report) prior to the meeting.

ATTENTION/DISCLAIMER

The purpose of this Council Meeting is to discuss and, where possible, make resolutions about items appearing on the agenda. Whilst Council has the power to resolve such items and may in fact appear to have done so at the meeting, no person should rely on or act on the basis of such decision or on any advice or information provided by a Council Member or employee, or on the content of any discussion occurring during the course of the Meeting. Persons should be aware that regulation 10 of the Local Government (Administration) Regulations 1996 establishes procedures to revoke or change a Council decision. No person should rely on the decisions made by Council until formal written advice of the Council decision is received by that person. The Shire of Mundaring expressly disclaims liability for any loss or damage suffered by any person as a result of relying on or acting on the basis of any resolution of Council, or any advice or information provided by a Council Member or employee, or the content of any discussion occurring during the course of the Council Meeting.

CONTENTS

1.0	OPENING PROCEDURES	5
1.1	RECORD OF ATTENDANCE.....	5
2.0	ANNOUNCEMENTS BY PRESIDING MEMBER WITHOUT DISCUSSION	6
3.0	DECLARATION OF INTEREST	6
3.1	DECLARATION OF FINANCIAL INTEREST AND PROXIMITY INTERESTS.....	6
3.2	DECLARATION OF INTEREST AFFECTING IMPARTIALITY.....	6
4.0	RESPONSE TO PREVIOUS PUBLIC QUESTIONS TAKEN ON NOTICE	6
5.0	PUBLIC QUESTION TIME	6
6.0	APPLICATIONS FOR LEAVE OF ABSENCE	6
6.1	LEAVE OF ABSENCE - CR TRISH COOK.....	6
7.0	CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS	6
8.0	PRESENTATIONS	7
8.1	DEPUTATIONS.....	7
8.2	PETITIONS.....	7
8.3	PRESENTATIONS.....	7
9.0	REPORTS OF COMMITTEES	8
9.1	REPORTS OF GOVERNANCE COMMITTEE 17 FEBRUARY 2025.....	8
9.1.1	POLICY REVIEW - COMMUNITY FUNDING AND YOUTH GRANTS.....	8
9.1.2	2025 GOVERNANCE COMMITTEE WORKPLAN.....	48
9.2	REPORTS OF AUDIT AND RISK COMMITTEE 25 FEBRUARY 2025.....	53
9.2.1	REVIEW OF RISK MANAGEMENT, INTERNAL CONTROLS AND LEGISLATIVE COMPLIANCE.....	53
9.2.2	2024 COMPLIANCE AUDIT REVIEW.....	73
10.0	REPORTS OF EMPLOYEES	100
10.1	2025 ANNUAL ELECTORS' MEETING DECISIONS.....	100
10.2	DRAFT HERITAGE LIST - ENDORSEMENT TO ADVERTISE.....	121
10.3	PROPOSED AMENDMENTS TO STRUCTURE PLAN 71 - LOT 6 HELENA VALLEY ROAD AND LOTS 9001 AND 9002 CARABEEN AVENUE, HELENA VALLEY - RECOMMENDATION TO WESTERN AUSTRALIAN PLANNING COMMISSION.....	175
10.4	TENDER OUTCOME - SUPPLY OF PREBOOKED BULK VERGE COLLECTION SERVICES.....	535
10.5	DEPARTMENT OF LOCAL GOVERNMENT, SPORT AND CULTURAL INDUSTRIES CONSULTATION - CHIEF EXECUTIVE OFFICER KEY PERFORMANCE INDICATORS AND ONLINE REGISTERS.....	539
10.6	MID-YEAR BUDGET REVIEW 2024/25.....	555

10.7	MONTHLY FINANCIAL REPORT FOR THE PERIOD ENDED 31 JANUARY 2025.....	563
10.8	LIST OF PAYMENTS FOR JANUARY 2025	580
11.0	COUNCIL MEMBER MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN	612
12.0	URGENT BUSINESS (LATE REPORTS)	612
13.0	CONFIDENTIAL REPORTS	612
13.1	TENDER OUTCOME - DESIGN AND CONSTRUCTION SUPERVISION FOR MUNDARING CULTURAL HUB (ADJOURNED FROM FEBRUARY 2025 ORDINARY COUNCIL MEETING)	613
14.0	CLOSING PROCEDURES	613
14.1	DATE, TIME AND PLACE OF THE NEXT MEETING	613
14.2	CLOSURE OF THE MEETING	613

**ORDINARY COUNCIL MEETING
COUNCIL CHAMBER – 6:30PM**

1.0 OPENING PROCEDURES

Acknowledgement of Country

Shire of Mundaring respectfully acknowledges the Whadjuk people of the Noongar Nation, who are the traditional custodians of this land. We acknowledge Elders past, present and emerging and respect their continuing culture and the contribution they make to the region.

Recording of Meeting

Members of Council and members of the gallery are advised that this meeting will be livestreamed and audio-recorded.

1.1 Record of Attendance

Council Members	Pres Paige McNeil (Presiding Member) Cr Trish Cook (Deputy President) Cr Luke Ellery Cr Doug Jeans Cr Prapti Mehta Cr John Daw Cr Neridah Zlatnik Cr Jo Cicchini	Shire President South Ward South Ward Central Ward Central Ward East Ward East Ward West Ward
Apologies	Nil	
Leave of Absence	Cr Karen Beale	West Ward
Absent	Nil	
Staff	Jason Whiteaker Garry Bird Mega Griffiths Shane Purdy Steve Trlin Andrew Bratley Anna Italiano	Chief Executive Officer Director Corporate Services Director Strategic & Community Services Director Infrastructure Services Acting Director Statutory Services Co-ordinator Strategic Planning Minute Secretary
Guests	Nil	
Members of the Public		

2.0 ANNOUNCEMENTS BY PRESIDING MEMBER WITHOUT DISCUSSION

3.0 DECLARATION OF INTEREST

3.1 Declaration of Financial Interest and Proximity Interests

Council Members must disclose the nature of their interest in matters to be discussed at the meeting (*Part 5 Division 6 of the Local Government Act 1995*).

Employees must disclose the nature of their interest in reports or advice when giving the report or advice to the meeting (*Sections 5.70 and 5.71 of the Local Government Act 1995*).

3.2 Declaration of Interest Affecting Impartiality

An Council Member or an employee who has an interest in a matter to be discussed at the meeting must disclose that interest (*Shire of Mundaring Code of Conduct, Local Government (Admin) Reg. 34C*).

4.0 RESPONSE TO PREVIOUS PUBLIC QUESTIONS TAKEN ON NOTICE

Nil

5.0 PUBLIC QUESTION TIME

15 minutes (with a possible extension of two extra 15 minute periods) are set aside at the beginning of each Council meeting to allow members of the public to ask questions of Council.

Public Question Time is to be conducted in accordance with Shire of Mundaring Meeting Procedures Local Law 2015.

6.0 APPLICATIONS FOR LEAVE OF ABSENCE

6.1 Leave of Absence - Cr Trish Cook

Cr Cook has advised of her request for leave of absence from the 8 April 2025 and 13 May 2025 Ordinary Council meetings.

MOTION
That Cr Cook be granted leave of absence from the 8 April 2025 and 13 May 2025 Ordinary Council meetings.

7.0 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

RECOMMENDATION
That the Minutes of the Ordinary Council Meeting held 11 February 2025 be confirmed.

8.0 PRESENTATIONS

8.1 Deputations

- (1) Members of the public may, during the deputations segment of the order of business and with the consent of the Presiding Member, make a public statement on any matter that appears on the agenda for that meeting provided that –
 - a) the deputation is limited to a maximum of 3 minutes, unless otherwise determined by the Presiding member;
 - b) the deputation is not offensive or defamatory in nature, providing that the Presiding Member has taken all reasonable steps to assist the member of the public to phrase the statement in a manner that is not offensive or defamatory; and
 - c) no discussion or questions relating to the deputation are permitted, unless otherwise determined by the Presiding Member.
- (2) Fifteen minutes is to be allocated for deputations.
- (3) Once all statements have been made, nothing prevents the unused part of the deputation time period from being used for other matters.
- (4) If the 15 minute period set aside for deputations is reached, Council may resolve by resolution that statement time be extended for no more than two 15 minute extensions.

8.2 Petitions

- (1) A petition is to –
 - a) be addressed to the President;
 - b) be made by electors of the district;
 - c) state the request on each page of the petition;
 - d) contain the legible names, addresses and signatures of the electors making the request;
 - e) contain a summary of the reasons for the request;
 - f) state the name of the person to whom, and an address at which, notice to the petitioners can be given; and
 - g) not contain offensive or insulting language.
- (2) On the presentation of a petition –
 - a) the member presenting it or the CEO is confined to reading the petition; and
 - b) the only motion that is in order is that the petition be received and that it be referred to the CEO for action.
- (3) At any meeting, the Council is not to vote on any matter that is the subject of a petition presented to that meeting, unless –
 - a) The matter is the subject of a report included in the agenda; and
 - b) The Council has considered the issues raised in the petition.

8.3 Presentations

Nil

9.0 REPORTS OF COMMITTEES

9.1 Reports of Governance Committee 17 February 2025

9.1.1 Policy Review - Community Funding and Youth Grants

File Code	GV.OPP
Author	Karen White, Co-ordinator Community Engagement
Senior Employee	Megan Griffiths, Director Strategic & Community Services
Disclosure of Any Interest	Nil
Attachments	<ol style="list-style-type: none">1. Attachment 1 - Draft Community Funding Policy ↓2. Attachment 2 - Community Funding Program - Consultation key findings ↓3. Attachment 3 - Revised Outline - Community Funding Program ↓4. Attachment 4 - Draft Community Funding Program Grant Guidelines ↓5. Attachment 5 - Draft Community Funding Policy - track changes ↓

PURPOSE

The draft “Community Funding Policy” (**Attachment 1**) is presented to the Committee for its consideration and recommendation to Council for adoption.

BACKGROUND

The draft “Community Funding Policy” combines the following current policies:

- Community Funding Policy (CD-02)
- Youth Grants Policy (CD-01)

The Shire’s “Community Funding Policy” (CD-02) was last reviewed on 12 July 2022 (C4.07.22).

The Shire’s “Youth Grants Policy” (CD-01) was last reviewed on 12 December 2017 (C4.12.17).

STATUTORY / LEGAL IMPLICATIONS

Section 2.7 (2)(b) of the Act provides that the role of Council is to “*determine the local government’s policies*”.

POLICY IMPLICATIONS

The draft “Community Funding Policy” will be adopted if resolved by Council.

The current “Youth Grants Policy” (CD-01) will be deleted if the draft “Community Funding Policy” is adopted by Council.

The “Policy Development and Review Policy” (2.2) relates.

FINANCIAL IMPLICATIONS

Nil.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 5 - Sustainable Communities

Outcome 5.1 - Advance opportunities, community participation and quality of life for people of all ages and abilities.

SUSTAINABILITY IMPLICATIONS

- Deliver outcomes that are consistent with the strategic goals and objectives of the Shire
- Comply with relevant policy, legislation, regulation, criteria and guidelines

RISK IMPLICATIONS

Risk: Reputation – Council faces reputational risk if the Shire does not provide financial support to eligible community groups and individuals through the Community Funding Program.		
Likelihood	Consequence	Rating
Possible	Moderate	Moderate
Action / Strategy		
The draft “Community Funding Policy” is adopted.		

CORPORATE COMMUNICATIONS

The Council's decision will be communicated during the rollout of the new community grant program, following the adoption of the Community Funding Policy, in the following way/s.

Direct to stakeholder/s	✓
Website article/ post	✓
Social media post	✓
Print article/ media release	✓
E-newsletter/ Community update	✓
Advertisement	✓
Nil	

EXTERNAL CONSULTATION

The Shire regularly consults with:

- applicants of the Community Funding Program, and
- participants related workshops, such as grant writing workshops.

Potential applicants are required to contact the Shire before submitting a grant application. During these pre-application discussions, anecdotal evidence is gathered.

The Shire has also considered feedback received through a customer comment form submitted on 31 August 2024.

Key findings from the 2021/22, 2022/23 and 2023/24 financial years are outlined in **Attachment 2**.

This ongoing collection of feedback has shaped review of the Community Funding Program to ensure it meets the diverse needs of applicants.

COMMENT

At the Governance Workshop held 15 July 2024, a policy review cover note was presented to seek feedback and inform the next iteration of the policies.

Subsequently, a Grant Selection Committee meeting was held on 4 October 2024, during which the following Motion (GSC4.10.24) was carried: “The Grants Selection Committee recommends that the Shire’s community grants policy review includes clarification of school P&C’s eligibility to make grant applications”.

In response to this Motion and subsequent Councillor questions, a revised policy review cover note was presented to the Governance Workshop on 18 November 2024 to seek further feedback and clarification of elements of the funding program.

A revised Community Funding Program was also presented at the workshops that addresses challenges experienced by applicants, feedback received, and aims to streamline the administrative process therefore, enhancing staff efficiency and community outcomes. An outline of the revised funding program is detailed in **Attachment 3**.

The corresponding “Community Funding Program Grant Guidelines”, which provide guidance for applicants, are outlined in **Attachment 4**.

Changes suggested to be made to the draft “Community Funding Policy” have shown in track changes (**Attachment 5**).

The following changes have been included in the draft “Community Funding Policy”:

- The currently “Youth Grants Policy” detail has been incorporated, and
- A revised Community Funding Program comprising of two grant types has been detailed.

VOTING REQUIREMENT

Simple Majority

COMMITTEE RECOMMENDATION

That Council:

1. Adopts the “Community Funding Policy” (**Attachment 1**), subject to the following amendments:
 - Add to Part 4 of the Policy an additional dot point “to enhance collaboration and linkages between the community and the Shire”;
 - Amend the Community Funding Guidelines Table 1 Community Event Grants as follows and amend other relevant parts of the Guidelines to reflect these changes:
 - a) Increase the funding for milestone event grants from \$2500 to \$3000.
 - b) A significant milestone is considered to be ten years or more.
 - c) Other group events to be capped at \$1000 per event.
 - Parent and Citizen’s Associations will only be eligible for funding for community wide events.
 - Delete from the Community Funding Guidelines on page 14, the paragraph that references consideration will be given to the equitable distributions of funds across the Shire’s three connected communities (Foothills, Hills and rural communities); and
2. Deletes the “Youth Grants Policy (CD-01)”

2.X COMMUNITY FUNDING

Responsible Directorate	Strategic and Community Services
Responsible Service Area	<Delete row if not applicable>
Resolution	<month/ year> <Council resolution>
Procedure Ref	N/A

1. PURPOSE

To outline the financial support provided to eligible community groups and individuals through the Community Funding Program whilst ensuring Shire funds are distributed in an equitable and transparent manner.

2. SCOPE

This policy applies to community groups and individuals seeking funding support from the Shire.

3. DEFINITIONS

agreement	a binding document that sets out the conditions under which Shire of Mundaring is to provide funding to a funding recipient.
CEO	the Chief Executive Officer, who is the most senior employee in the organisation. The CEO is appointed by and directly accountable to the Council.
Council	the body consisting of all council members sitting formally as the Council of the Shire of Mundaring.
Shire	the local government of Shire of Mundaring. Includes the Council and the Administration.
community group	characteristics include but not limited to: <ol style="list-style-type: none"> a. incorporated not for profit group or association of persons with the primary aim of conducting activities and providing services for community benefit; and b. relies predominantly on volunteer labour, community fundraising, membership fees and donations.

4. POLICY

Council receives a range of requests for funding from local community groups and individual for a variety of sports, arts, recreation, environmental and community projects each year.

The aims of the Shire's Community Funding program are:

- To encourage the development of services, facilities and events that meet identified community needs.
- To promote active participation of local residents in community initiatives and the development of skills, knowledge and opportunities.
- Encourage community connection, foster health and wellbeing and enhance community spirit.
- To provide assistance to the community to develop and deliver initiatives and services that support the Shire's Council Plan.
- To support development of individuals in their chosen area of interest (including sport and recreation, science, technology, arts, community service, culture and the environment).
- To enable individuals to contribute positively to their engagement in the broader community and development of citizenship attributes.
- To provide a level of funding that takes into account the budgetary constraints of the Shire.
- To enable community organisations to attract other funding and in-kind support.
- To acknowledge community organisations and volunteers for the positive contribution they make to the local community and Council's vision for the future.

4.1. Multi-Year Funding Agreements

4.1.1. Four Year Service Agreements

Four year service agreements may be offered to community groups who provide an ongoing service to the community and maintain a continual community presence.

To be eligible to receive funding, the services provided by the community group are to closely align to the Shire's strategic goals. Four year service agreements are reserved for groups who bring a high level return on investment. It is generally expected that four year service agreements will be offered recurrently, provided all conditions of funding are met.

Eligible community group seeking a four year service agreement are to submit a detailed business case.

An item regarding the request for the four year service agreement will be presented to Council via its annual corporate business planning process.

Successful funding recipients are required to provide six monthly reports against key performance indicators as agreed with the Shire.

4.1.2. Three Year Event Funding Agreements

Three year event funding agreements may be offered to community groups who are delivering events that are regional in nature, are unique in their offering and have capacity to attract external visitors.

To be eligible to receive funding, the community group is to have a proven track record in the delivery of their community based event. The initiatives funded by a three year event funding agreement are to closely align to the Shire's strategic goals and have the ability to attract significant external funding. It is generally expected that three year event funding agreements will be offered recurrently, provided all conditions of funding are met.

Eligible community groups seeking a three year event funding agreement are to submit a detailed business case including details of administration processes in place and evidence of robust business planning.

An item regarding the request for the three year funding agreement will be presented to Council via its annual corporate business planning process.

Successful funding recipients are required to provide annual reports against key performance indicators as agreed with the Shire.

4.1.3. Two Year Event Funding Agreements

Two year event funding agreements may be offered to community groups who have a history of consistently and successfully delivering the event to be funded on five or more occasions. Funding at this level is developmental in nature with the intent of supporting groups to become further established and broaden their reach, whilst providing security of longer term funding.

To be eligible to receive funding, the community group is to have a proven track record in the delivery of their community based event. The initiatives funded by a two year event funding agreement are to closely align to the Shire's strategic goals and have the ability to attract significant external funding. It is generally expected that two year event funding agreements will be offered recurrently, provided all conditions of funding are met.

Eligible community groups seeking a two year event funding agreement are to submit:

- a detailed business case including details of administration processes in place and robust business planning; and
- an evaluation of the event that will utilise the funding, with evidence of achieving the events intended outcomes provided.

An item regarding the request for the two year event funding agreement will be presented to Council via its annual corporate business planning process.

Successful funding recipients are required to provide annual reports against key performance indicators as agreed with the Shire.

4.2. Community Funding Program

The Shire provides Community Events Grants and Community Impact Grants through the Community Funding Program.

“Community Funding Program Guidelines” (Appendix 1) pertaining to each of the following individual grants, are available via the Shire’s website and in paper copy on request.

4.2.1. Community Event Grants

Community Event Grants provide funding to community groups wishing to run fetes, festivals, markets, sporting/recreational carnivals, exhibitions, small performances and milestone and volunteer recognition events.

Eligibility criteria, promotion requirements and acquittal obligations are available in the “Community Funding Program Guidelines” (Appendix 1).

Grants under \$3000 will be determined by the CEO. Grants \$3001 or greater (to a maximum of \$5000), will be presented to the Grants Selection Committee for assessment. The Grants Selection Committee is authorised to approve funding pursuant to this policy.

Council members will be notified of approved funding.

4.2.2. Community Impact Grants

Community Impact Grants provide funding to community groups to achieve positive impact outcomes for community through delivery of wellbeing programs or:

- purchase of small equipment,
- undertaking minor capital upgrades,
- creation of promotional material,
- provision of training,
- delivery of community activities.

Community Impact Grants also support the wellbeing of young residents of the Shire, aged eight-18 years, in their pursuit of activities that:

- support their development in their chosen area of interest including sport and recreation, science, technology, arts, community service, culture and the environment; and
- contribute positively to their engagement in the broader community and development of citizenship attributes.

Eligibility criteria, promotion requirements and acquittal obligations are available in the “Community Funding Program Guidelines” (Appendix 1).

Grants under \$3000 will be determined by the CEO.

Council members will be notified of approved funding.

4.2.3. Funding Allocation

Funding allocations for the Community Funding Program will be determined as part of the annual budgeting process. Unspent funds allocated to the Community Funding Program will not be carried forward to the next financial year.

5. APPENDICES

Appendix 1 Community Funding Program Guidelines

6. RELATED LEGISLATION

7. RELATED DOCUMENTS

Not Applicable

Community Funding Program – Consultation key findings

The Shire’s Community Funding Program is regularly evaluated through consultation with:

- applicants of the program, and
- participants of related workshops, such as grant writing sessions.

Prospective applicants are required to contact the Shire before submitting their grant application. During these pre-application discussions, anecdotal evidence is gathered.

The Shire has also considered feedback received through a customer comment form submitted on 31 August 2024.

Key findings from the 2021/22, 2022/23 and 2023/24 financial years are outlined below. The findings have informed the proposed changes to the Community Funding Program.

Applicants of the Community Funding Program

<p>Applicants were asked ‘Do you have any comments or feedback to share with us about the application process?’</p>
<p>Comments:</p>
<p>Making contact with staff was critical and the level of attention and service was excellent.</p>
<p>We think the Shire should Match Community Events by 3:1 rather than 2:1. It is hard for a community group to raise and spend money for an event, when there are other infrastructure / equipment requirements demanding priority. Yet, community events are so important, especially in Bushfire areas. Community groups that run community events are really doing the Shire a favour, in that the Shire don't have to run them e.g. Skatepark activity for youth.</p>
<p>Very simple process and great communication from the Shire and particularly [name anonymous]. Much appreciated.</p>
<p>It was rather confusing establishing whether or not [name anonymous] could auspice our grant as well as submit their own grant for the full amount. we received some mixed messages, however are grateful for the time taken in resolution and communication regarding this.</p> <p>We also found it very challenging that our initial application in Round 2 2020-21 was not successful as it 'lapsed due to lack of a seconder' - this language does not make sense to a community group and it was not clear whether the reason it was rejected had anything to do with the quality of our application, or reflected some procedural issue, or was tied up with the Wine Tent issues (the other [name anonymous] event). In future using simpler language to explain the reason would be helpful.</p>

<p>Many thanks for the opportunity to apply again, and also for this opportunity to share feedback.</p>
<p>Thank you so much for your understanding and helping us clarify what we needed to include in the submission!</p>
<p>[name anonymous] was extremely helpful with explaining what was required when questions arose. The accessibility section of the grant is difficult to understand and in some cases like ours it fails to meet the criteria in the Shires own buildings. Unsure how this outcome can be improved.</p> <p>It was unclear if I needed approval from [name anonymous] to have the event or the organise event link.</p>
<p>Good grant process as long as the author remembers to save as you go.</p>
<p>The online application process was quite smooth. I appreciated the Shire's phone support to in completing the grant application.</p>
<p>It was easy to input words as long as I saved as I went. I found it annoying to be "locked out" of the document a number of times and needed help to re-enter. At times the Save Progress key did not work and was frustrating.</p>
<p>All information was readily available and links to additional information and forms made the process very easy.</p>
<p>Thank you for considering our application.</p>
<p>This grant is well laid out and a great opportunity for groups. [name anonymous] was very helpful and patient with our questions as always.</p> <p>Figuring out the budgeting to ensure we are meeting the matching requirements and what classified as in-kind in relation to donations caused some confusion. It may be useful to include separate tables in the budgeting to show different amounts in each category.</p>
<p>The process and support has been really great so far. Thank you!</p>
<p>I would have found it difficult to complete the application without help.</p>

Workshop participants

Participants suggested additional training on the following:

- Shire funding process in general;
- how to write funding applications;
- how to write supporting letters; and
- how to develop budgets.

This feedback will be used to inform future community based workshops.

Customer feedback form

The Shire received one customer feedback form submitted on 31 August 2024, see details below:

Proposal for Community Insurance Grant Program for Not-for-Profits

I am writing to propose the consideration of a Community Insurance Grant program within the Shire of Mundaring, similar to the one currently offered by the City of Perth. This program could provide valuable support to our local not-for-profit organisations by reimbursing insurance policy premiums, offering much-needed peace of mind for group members, volunteers, and participants.

The Community Insurance Grant program in The City of Perth accepts applications for the following types of insurance policies:

- Public and Product Liability
- Volunteer Personal Accident
- Association Liability

Such a program would be greatly beneficial to our community, as it would alleviate the financial burden of essential insurance costs for not-for-profits, allowing them to focus more on their vital community work.

I believe that introducing a similar grant program in the Shire of Mundaring could make a significant positive impact on our local organisations. I kindly ask the Shire Council to consider this proposal and explore the possibility of implementing a Community Insurance Grant program that aligns with our budget and strategic priorities.

Thank you for your time and consideration. I look forward to the possibility of this initiative being taken forward.

Pre-application discussions, anecdotal evidence

Pre-application discussions highlighted the following challenges faced by applicants:

- Several applicants mistakenly applied for the wrong grant type and required guidance from Shire staff. Common issues included:
 - Applicants for one-off events should apply for a Community Event Grant not an InspireArts Grant
 - Matching Grants do not fund one-off events
 - Unsuccessful applicants of the Milestone Grant felt they should have chosen to apply for a Community Event Grant instead;
- Applicants were impacted by the timing of funding rounds, limiting their ability to apply;
- Applicants unable to meet the matching fund (50%) requirement,
- Difficulty sourcing or understanding the need for an auspice was a barrier for some applicants; and
- The budget process, particularly understanding in-kind contributions, posed challenges for many applicants.

Grant Selection Committee feedback – 15 October 2024

In addition to community feedback, the Shire has considered Grant Selection Committee decision GSC4.10.24 that 'The Grants Selection Committee recommends that the Shire's community grants policy review includes clarification of school P&C's eligibility to make grant applications'.

Shire of Mundaring Proposed New Community Funding Program Outline

Grant Type 1	Community Event Grant Open 1 August through to 31 May the following year subject to the availability of funds		Community Impact Grant Open 1 August through to 31 May the following year subject to the availability of funds		
Grant Type 2	Community-wide Events	Group Events	Community Program (range of activities to achieve long-term impact outcomes)	Community Group Resourcing	Travel costs to enable young people aged between eight and 18 years to represent their club or institution at State or National level
Value of Grant	Maximum \$5000 In-kind contribution	Maximum \$2500 In-kind contribution	Maximum \$3000 In-kind contribution	Maximum \$2500 In-kind contribution	\$200 Regional and Remote \$400 Interstate \$600 International
What is funded Category One	Fetes Festivals Markets Sporting/recreational carnivals Exhibitions Small performances	Presentations Volunteer member recognition Significant milestone, achievement or anniversary Fundraisers	Arts and culture Health and wellbeing Significant milestone, achievement or anniversary sustainability Sports and recreation Community activities	Equipment Minor Capital Upgrade Promotion Material Training 50% of total cost of Public Liability Insurance to establish an incorporated group	Sport and recreation Science Technology Arts Community Service Culture Environment
What is funded Category Two	Event insurance costs Training costs related to the event		Arts and culture: Incorporated group maximum \$3000 in-kind contribution Individual maximum \$1500 in-kind contribution		
Lead Time	6 weeks up to \$3000 Refer to Key Date table for over \$3001	6 weeks up to \$2500	6 weeks up to \$3000	6 weeks up to \$2500	1 month prior to event
Determined By	Over \$3001 presented to the Grant Selection Committee Under \$3000 determined by CEO	Up to \$2500 determined by CEO	Up to \$3000 determined by CEO	Up to \$2500 determined by CEO	Up to \$600 determined by CEO
Funding Agreement	Required for funding over \$1000		Required for funding over \$1000	No	No
Acquittal	Within three months following completion of the event		Within three months following completion of the program	Within three months following completion of the project	Event summary form and photo within three months following the event, for potential showcasing
Criteria	<ul style="list-style-type: none"> The aim of the event meets an identified need of the group and the purpose and requirements of the grants program. Identifies benefits the event will bring to the local community. Identifies a significant group milestone achievement or anniversary. The event aims to recognise the volunteer contribution to a group. The level of community consultation and support demonstrated for the event. The capacity of the community to contribute to the event. The extent to which the event is accessible and inclusive to all people regardless of age, sexual and/or gender diversity, culture and ability. Budget including in-kind contribution if required. Evaluation of outcomes of the event. Acknowledged Shire support. 		<ul style="list-style-type: none"> The aim of the project meets an identified need of the group and purpose and requirements of the grant program. Demonstrated benefits the project will bring to the local community. The level of community consultation and support demonstrated for the project. The capacity of the community to contribute to the project. The capacity of the applicant to deliver the project. The extent to which the event is accessible and inclusive to all people regardless of age, sexual and/or gender diversity, culture and ability. Budget including in-kind contribution if required. Evaluation of outcomes of the project. Acknowledged Shire support. 		<ul style="list-style-type: none"> Individual applicants aged between eight and 18 years only Individual resides in the Shire Documentation from relevant body to confirm selection
Outcomes	<p>The aims of the Shire's Community Funding program are:</p> <ul style="list-style-type: none"> To encourage the development of services, facilities and events that meet identified community needs. To promote active participation of local residents in community initiatives and the development of skills, knowledge and opportunities. Encourage community connection, foster health and wellbeing and enhance community spirit. To provide assistance to the community to develop and deliver initiatives and services that support the Shire's Council Plan. To support development of individuals in their chosen area of interest (including sport and recreation, science, technology, arts, community service, culture and the environment). To enable individuals to contribute positively to their engagement in the broader community and development of citizenship attributes. To provide a level of funding that takes into account the budgetary constraints of the Shire. To enable community organisations to attract other funding and in-kind support. To acknowledge community organisations and volunteers for the positive contribution they make to the local community and Council's vision for the future. 				

Shire of Mundaring Existing Community Grant Funding Program Outline

Grant Type	Value of Grant	Group Contribution	What is Funded	Availability
General Purpose Quick Grant	\$500 maximum	In-kind	Small projects: <ul style="list-style-type: none"> · Equipment · Promotional material · Training 	Twice per year
Matching Grant	\$2000 maximum	Under \$1000 – in-kind \$1001 to \$2000 – dollar for dollar (matching)	Projects: <ul style="list-style-type: none"> · Equipment · Minor capital upgrades · Promotional material · Training 	Twice per year
InspireArts Community Creativity and Cultural Fund	Individuals - up to \$1000 (over \$1000 to maximum of \$2000 needs to be auspiced) Incorporated groups = up to \$3000	In-kind	Arts and culture projects and initiatives which: <ul style="list-style-type: none"> · Encourage new partnerships · Improve access to arts and culture within the shire · Achieve long term artistic and cultural benefits · Engage local residents 	Open all year
Community Event Grant	\$5000 maximum	Under \$1000 – in-kind \$1001 to \$5000 – 50% cash and in-kind (matching)	Events: <ul style="list-style-type: none"> · Fetes, festivals, markets, sporting/recreational carnivals, exhibitions, small performances · Training costs related to the event · Event insurance costs 	Twice per year
Milestone Event Grant	\$2,500	In-kind	One annual grant awarded to a group celebrating a significant milestone achievement	Annually
Volunteer Recognition Event Grant	\$300	In-kind	Celebration and recognition of volunteer contributions	Open all year
Youth Grant	Travel to regional and remote WA - \$200 Interstate travel - \$400 International travel - \$600	Individual applicants only	Assists young people aged between eight and 18 to represent their club or institution at events or activities in a range of fields.	Open all year

COMMUNITY FUNDING PROGRAM



DRAFT

Grant Guidelines

Shire of
MUNDARING

CONTENTS

Table of contents

About the Community Funding Program 3

Background

Overview of grants 4

Introduction to grants

Grant funding streams and types

Recommend application timing

Eligibility 8

Who can apply?

Young person eligibility

Auspicing

Application and assessment process 11

Planning your application

Applying for a grant

Use of funds

Assessment criteria

Activities and projects that will not be funded

Application tips - financial status and referees

Grant decision making process

Grant Selection Committee

Notification of application outcome

Responsibility of grant applicants 15

Applicant responsibilities

Variations or changes to your funded activity

Acknowledgement of Shire funding

Acquittal process

More information 17



🔗 USING LINKS IN THIS DOCUMENT

This document contains active links as a digital PDF. If you have printed these guidelines, we recommend you visit mundaring.wa.gov.au/grants-and-funding

ABOUT THE COMMUNITY FUNDING PROGRAM

Background

Shire of Mundaring's Community Funding Program is designed to build community capacity through effective, strategic and equitable provision of funds to the local community.

The program aims to support projects and activities that enhance community wellbeing and strengthen, empower and celebrate our local community.

This funding is offered via grant opportunities and is governed by the Community Funding Policy, which can be downloaded from the Shire of Mundaring website - search 'Policies'.

The program aims to support projects and activities that align with the Shire's Council Plan 2024 to 2034 and applications that address key priority areas within the Plan will be highly regarded

These guidelines are designed to be read before you apply. They will help with understanding how the program works, the types of grants available, eligibility, and outline the responsibilities of successful applicants.

Council Plan Key Priority Areas



[DOWNLOAD COUNCIL PLAN 2024 TO 2034](https://mundaring.wa.gov.au/council/planning-reporting-and-governance/plans-and-strategies)
mundaring.wa.gov.au/council/planning-reporting-and-governance/plans-and-strategies



Sustainable Environments

Sustainable Environments covers all aspects of natural resource management, from the tree canopy, nature reserves, waterways and wildlife, to the management of waste, energy, water, environmental health and natural disasters.



Sustainable Communities

Sustainable Communities covers all aspects of community health and wellbeing, from youth, family and seniors' services to access and inclusion, sport and recreation, culture and the arts, community safety, responsible animal ownership, and volunteering.



Sustainable Places

Sustainable Places covers the built form, from urban planning and building services, to housing, built heritage, streetscapes and verges, roads, footpaths, trails and cycleways, parks and playgrounds, community buildings, toilets, transport and parking.



Sustainable Economies

Sustainable Economies covers all aspects of economic development, including the development of town centres and village hubs, tourism, events and place activation, business support services, life-long learning, and library services.



Sustainable Governance

Sustainable Governance covers all aspects of delivering effective local government from Council's leadership, financial, risk and asset management, and human resources through to community engagement, communications and customer service.

COMMUNITY FUNDING PROGRAM: GRANT GUIDELINES

11.03.2025 COUNCIL MEETING AGENDA

25

OVERVIEW OF GRANTS

Introduction to grants

Grant applications open annually from 1 August through to 31 May the following year.

Funding is provided under the Community Funding Program through grants.

Grants are designed to support activities that meet identified community needs, promote active participation of local residents and build community strength.

The program is organised on a financial year basis and is a competitive process. The Shire recommends applicants plan ahead for their application, ensuring they leave enough time for assessment processes.



Grant applications open annually from 1 August through to 31 May the following year.

The outcome of each funding stream will reflect the number and value of requests received. Groups are not guaranteed funding in consecutive years.

Groups can apply for more than one grant type at a time.



COMMUNITY FUNDING PROGRAM: GRANT GUIDELINES

OVERVIEW OF GRANTS

Grant funding streams and types

The Shire provides two grant funding streams including:

Community Event Grants

Community wide or group events e.g. festivals, markets or fundraising events.

Community Impact Grants

Community programs, resourcing and individual activities that have a lasting community impact in key focus areas.



TABLE 1: COMMUNITY EVENT GRANTS

Grant type	Types of activity funded	Grant value	Examples of eligible costs
Community-wide events	Fetes Festivals Markets Sporting / recreational carnivals Exhibitions Small performances	Up to \$5,000	Entertainment Hire of equipment Catering Event marketing and promotion Security and crowd control
Group events	Presentations Volunteer member recognition Significant milestone, achievement or anniversary Fundraisers	Up to \$2,500	Event insurance costs Training costs related to the event Presenters / speakers



COMMUNITY FUNDING PROGRAM: GRANT GUIDELINES

OVERVIEW OF GRANTS

TABLE 2: COMMUNITY IMPACT GRANTS

Grant type	Types of activity funded	Grant value	Examples of eligible costs
Community program	Arts and culture Health and wellbeing Conservation and environmental sustainability Sports and recreation Community activities	Group up to \$3,000 Arts and culture individual artist up to \$1,500	Venue hire Presenters / speakers Activity resources Catering Marketing and promotion
	Equipment	Up to \$2,500	Musical instruments First aid kits Barbecues Toys and books Storage cupboard Laptop computer
Community group resourcing	Minor capital upgrades	Up to \$2,500	Replacement of club room carpet Installation of shade sails Fencing and raised garden beds Outdoor lighting and security
	Promotional material	Up to \$2,500	Development of websites Production of brochures
	Training	Up to \$2,500	Volunteer training that supports the group or individual's activities
	Public liability insurance to establish an incorporated group	Up to \$2,500	50% of total cost of Public Liability Insurance
Youth travel	Sport and recreation Science Technology Arts Community service Culture Environment	Regional and remote \$200 Interstate \$400 International \$600	Travel for young people representing their club / institution at state, national or international level



COMMUNITY FUNDING PROGRAM: GRANT GUIDELINES

OVERVIEW OF GRANTS

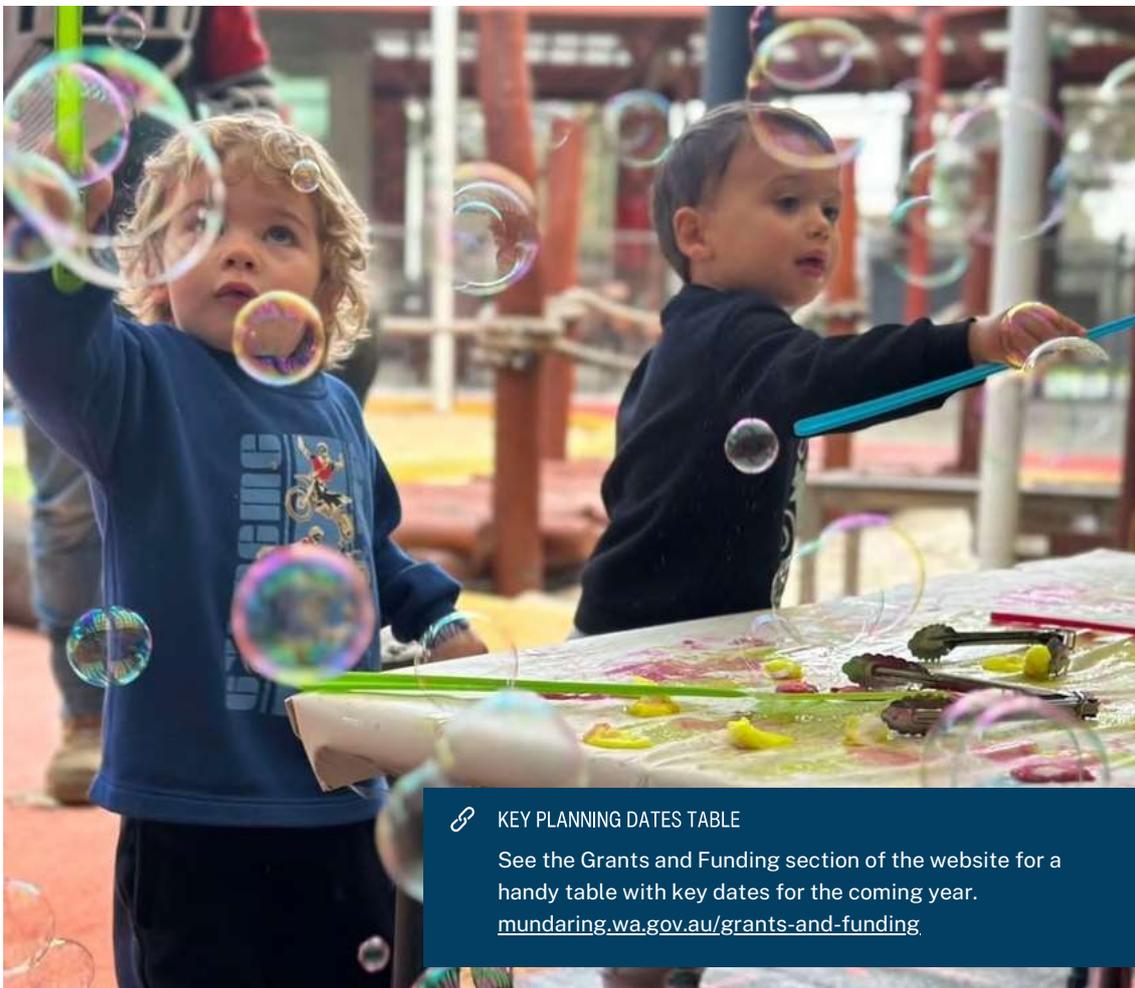
Recommended application timing

To help you plan ahead, it is important to note that assessment processes vary depending on the type of grant and the amount you intend to apply for.

For amounts over \$3,000 a specially formed grants committee will need to review the application.

As a general guide note:

- For grants under \$3,000, allow a six week lead time to your activity for planning.
- For the youth travel grants, apply at least one month prior to your activity.
- For a community-wide event grant (Community Event Grant) over \$3,000, factor in a minimum 12 week process.



KEY PLANNING DATES TABLE

See the Grants and Funding section of the website for a handy table with key dates for the coming year.
mundaring.wa.gov.au/grants-and-funding

Who can apply

Community groups and individuals are encouraged to apply for any activities that can demonstrate wider community value.

You or your group must meet at least one of the following criteria to apply:

- an incorporated not-for-profit organisation based in Shire of Mundaring
- an unincorporated community group under the auspices of an incorporated association
- a Shire Volunteer Bush Fire Brigade (for items not available through Shire of Mundaring managed ESL/LGGS funding or Shire of Mundaring direct funding)
- Shire registered Environmental Friends Groups can only seek grants for “celebratory activities/events” and training
- a young person aged between eight and 18 years and have been chosen to attend state, national or international events representing their institution, club or organisation
- an individual emerging local artist



Non eligible groups

- a profit making, or represents a profit making enterprise
- educational institutions including Parents and Citizen’s Associations

Groups will also be ineligible in the following circumstances:

- currently in receipt of a multi-year funding agreement with the Shire
- has not acquitted a previous Shire grant of the same grant type
- have already received two grants within the financial year in which they are applying

ELIGIBILITY

Partnerships where two or more community groups will benefit directly from the activity will be highly regarded. As such, applications from district committees and sporting associations are encouraged.

Incorporated groups can submit an application on their own behalf, and act as auspice for an unincorporated group in the same grant round and for any grant type. Incorporated groups may act as auspice for no more than four applications in a financial year.



Auspicings

An unincorporated community group can only apply for funding if they do so under the auspices of another incorporated organisation.

The incorporated organisation will be responsible for receiving and managing the funds. Funds will be paid directly to the bank account of the incorporated organisation.

It is the responsibility of the incorporated organisation and the applicant to negotiate and agree upon the conditions of the auspicings arrangement.



INCORPORATION RESOURCE

For information on how to become incorporated visit commerce.wa.gov.au/consumer-protection/how-incorporate-association



Young people eligibility

To be eligible for funding to support travel for young people representing their club / institution at state, national or international level, applicants need to:

- reside in the Shire of Mundaring
- be aged between 8 and 18 years

Applicants must also:

- provide documentation from the relevant body that confirms participation
- submit only one application per person per 12 month period
- demonstrate participation at the activity through completion of an event summary form

APPLICATION AND ASSESSMENT PROCESS

The following outlines the application and assessment process and responsibilities of the applicant. Please read carefully before applying.

All applicants are required to discuss their ideas and options with the Community Engagement team

Planning your application

We recommend planning ahead as far as you can to your activity to allow discussion with the engagement team and the assessment process.



Applying for a grant



All applicants are required to discuss their ideas and options with the Community Engagement team prior to starting your online application.

When you have read these guidelines and gathered the documents you will need, applications can be made online via

mundaring.smartygrants.com.au



GRANT WRITER'S GUIDE

For help with writing your application, you can download the Shire's Grant Writers Guide.

mundaring.wa.gov.au/guide

Assessment criteria

Each application will be assessed in the context of the purpose and requirements of the grant program and against the following grant program criteria.



Community Event Grant

Applicants will need to demonstrate:

- the event meets an identified need of the group and the purpose and requirements of the grants program
- the benefits the event will bring to the local community
- how the event aims to recognise the volunteer contribution to your group
- a level of community consultation and support for the event
- capacity of the community to contribute to the event
- consideration for accessibility and inclusion for all people regardless of age, sexual and/or gender diversity, culture and ability
- a detailed budget including in-kind contribution
- an evaluation approach demonstrating outcomes of the project
- acknowledgment of Shire support



Community Impact Grant

Applications will need to demonstrate (excluding youth travel grants):

- the project meets an identified need of the group and purpose and requirements of the grant program
- benefits the project will bring to the local community
- a level of community consultation and support for the project
- capacity for the community to contribute to the project
- capacity of the applicant to deliver the project
- consideration for accessibility and inclusion for all people regardless of age, sexual and/or gender diversity, culture and ability
- a detailed budget including in-kind contribution if applicable
- an evaluation approach demonstrating outcomes of the project
- acknowledgment of Shire support

Activities and projects that will not be funded

Note the following activities / costs will not be eligible for funding:

- retrospective costs
- capital works being undertaken by the community group or the Shire of Mundaring through other budget processes / major capital infrastructure projects
- corporate events or projects
- recurrent operational and staffing costs e.g. wages (insurance costs for single events may be covered)
- deficit funding
- sponsorship
- the purchase of alcohol
- the purchase of prizes and gifts
- activities that are the core funding responsibility of other government agencies e.g. the Department of Education
- equipment costs that are not an element of the event or the activity/purpose of the group
- commercial projects for the personal or financial benefit of the applicant
- faith-based activities of religious organisations (the welfare and community service activities of faith-based groups may be supported where these activities are open to the broader community)
- projects with a political purpose or lobbying activities
- activities that duplicate an existing service



Application tips - financial status and referees

- If a group does not have an ABN, an Australian Taxation Office 'Statement by Supplier' form must be completed.
- If you are registered for GST, provide your expenses without GST. If you are not registered for GST, GST will not be added to your total budget.
- Referees provided should be people who are familiar with the applicant group and its activities, but not a member of the organisation. Council members and employees cannot act as referees.
- Where an in-kind contribution is detailed, applicants are required to outline what this contribution is made up of e.g. venue hire, volunteer hours, donation of goods or services.

Use of funds

- Funds must be spent in accordance with the details and timeline described in the application.
- Funds will not be available for projects prior to approval being given in writing.
- Unexpended funds must be returned to the Shire on completion of the event/project.



Grant decision making process

All applications are assessed by Shire employees and a report and recommendations are provided to:

- the Chief Executive Officer for those applications \$3,000 or under; and
- the Grants Selection Committee, which is comprised of five Councillors who make decisions to fund grants over the value of \$3,000.

Consideration will be given to the equitable distribution of funds across the Shire's three connected communities (Foothills, Hills and Rural communities).

The priority of the needs identified by the applicant being addressed in the applications will be taken into account when funding decisions are made.

Grant Selection Committee

Members of the community are able to attend and observe the committee meetings. The meeting is also an opportunity for you or a group representative to present a three minute deputation about your application. Contact the Shire for the date, time and location of these meetings.

Notification of application outcome

Applicants will be informed of the outcome of their application as soon as possible.

Applicants in receipt of a Community Event or Community Impact grant over \$1,000 will be required to sign a service agreement. The agreement will be provided at the time that they are informed of the outcome of their application.

Funding will be provided to groups through electronic funds transfer to the group's nominated bank account.

Applicant responsibilities

Please note it is the responsibility of the applicant to:

- Obtain all appropriate permits, consents or approvals, including but not limited to those required by the Shire's planning, building, health and/or recreation departments. Funding may be withdrawn or withheld if the necessary steps are not taken to meet this condition.
- Groups seeking a Community Event Grant must complete the event questionnaire on the Shire's website and submit for approval. Once approved, groups must also notify the Shire's Health Service of the event.
- If the grant is for an event, the group will provide proof of public liability insurance through the Shire's event application process. For a Community Impact Grant the applicant will provide a copy to the Shire's Community Engagement team prior to any funds being released.
- Appropriately acquit the funds via the acquittal process (see Acquittal process page 17)

Variations or changes to your funded activity

The grant recipient must inform the Shire in writing of any circumstances which may result in the event or project not being completed as described in the application.

If an event / project is disrupted as a result of an incident outside of the applicant's control, for example severe or unexpected weather, emergencies such as bushfire, where a catastrophic bushfire rating has been imposed or State government regulatory advice, the Shire will work with the recipient to explore options.

This may include grant variations, changes to reporting timeframes, cancelling or postponing events. The Shire may also support decisions made by grant recipients to delay or amend funded projects



COMMUNITY FUNDING PROGRAM: GRANT GUIDELINES

Acknowledgement of Shire funding

Successful applicants are required to acknowledge the funding support they receive from the Shire.

As part of acceptance of funding through this program, applicants are required to:

- Submit all promotional material to the Shire for review prior to being distributed.
- Provide a written invitation to the Shire President to attend community events.
- Acknowledge the Shire's Community Funding Program as per funding awarded as follows:
 - logo inclusion on all print media not limited to programs, tickets, brochures and advertising
 - acknowledgement on social media posts
 - where space permits include the following statement alongside the appropriate Shire logo 'This event is proudly supported by the Shire of Mundaring'
 - display Shire signage during the event (photo evidence to be included in the grant acquittal)
 - verbally acknowledgement the Shire's support during speech activities
 - complete event details form for inclusion on the Shire website event calendar

Note the Shire's Communications team must approve intended acknowledgements and will provide appropriate logos. Please leave a minimum of five working days for review.



Note the Shire's Communications team must approve intended acknowledgements and will provide appropriate logos. Please leave a minimum of **five working days** for review.



Acquittal process

All grants require an acquittal with the exception of Community Impact Grants with travel funding for young people.

The acquittal report is to be provided to Shire within three months of the completion of the project. An acquittal form will be made available via SmartyGrants at the time you receive grant funding.

Please make sure to document your event and activity for your acquittal. You will need to produce documentation to show how the grant has been expended for example invoices and receipts.

You are also required to provide a written evaluation along with photos of the project / event highlighting the benefits to community and how the Shire's contribution was recognised.

Young people in receipt of funds to enable them to travel to represent their club or institution at state or national level will be required to provide the Shire with an event summary and photo within three months following completion of their activity.



More information

For further information about the Community Funding Program, please contact the Shire's Community Engagement team.

Call 9290 6682

Email shire@mundaring.wa.gov.au

Please remember all applications need to be discussed with the Community Engagement Team.

mundaring.wa.gov.au/grants-and-funding

2.X COMMUNITY FUNDING

Responsible Directorate	Strategic and Community Services
Responsible Service Area	<Delete row if not applicable>
Resolution	<month/ year> <Council resolution>
Procedure Ref	N/A

1. PURPOSE

To outline the financial support provided to eligible ~~local not-for-profit~~ community groups and individuals through the Community Funding Program- ~~whilst the~~ ensuring Shire funds are distributed in an equitable and transparent manner that ensures good governance.

~~To outline the support provided to eligible young people through the Youth Grants Program.~~

2. SCOPE

This policy applies to community groups and individuals seeking funding support from the Shire.

3. DEFINITIONS

agreement

a binding document that sets out the conditions under which Shire of Mundaring is to provide funding to a funding recipient.

CEO

the Chief Executive Officer, who is the most senior employee in the organisation. The CEO is appointed by and directly accountable to the Council.

Council

the body consisting of all council members sitting formally as the Council of the Shire of Mundaring.

Shire

the local government of Shire of Mundaring. Includes the Council and the Administration.

community group

characteristics include but not limited to:

- a. incorporated not for profit group or association of persons with the primary aim of conducting activities and providing services for community benefit; and
- b. relies predominantly on volunteer labour, community fundraising, membership fees and donations.



4. POLICY

BACKGROUND

Council receives a range of requests for funding from local [community](#) groups [and individual](#) for a variety of sports, arts, recreation, environmental and community projects each year.

~~This policy ensures that Shire funding resources are allocated in a way that is transparent, legal and equitable and that funded projects further the strategic aims and objectives of the Shire and represent responsible use of public monies.~~

The aims of the Shire's Community Funding program are:

- To encourage the development of services, facilities and events that meet identified community needs.
- To promote active participation of local residents in community initiatives and the development of skills, knowledge and opportunities.
- Encourage community connection, foster health and wellbeing and enhance community spirit.
- To provide assistance to the community to develop and deliver initiatives and services that support the Shire's [Strategic Community Council](#) Plan.
- [To support development of individuals in their chosen area of interest \(including sport and recreation, science, technology, arts, community service, culture and the environment\).](#)
- [To enable individuals to contribute positively to their engagement in the broader community and development of citizenship attributes.](#)
- To provide a level of funding that takes into account the budgetary constraints of the Shire.
- To enable community organisations to attract other funding and in-kind support.
- To acknowledge community organisations and volunteers for the positive contribution they make to the local community and Council's vision for the future.
- ~~To ensure Shire funds are distributed in an equitable and transparent manner that ensures good governance.~~

4.1. Multi-Year Funding Agreements

~~For community groups in receipt of multi-year funding from the Shire, support will be delivered in the following ways:~~

4.1.1. Four Year Service Agreements:

~~Four year s~~Service agreements may be offered to [community](#) groups who provide an ongoing service to the community and maintain a continual community presence.

~~To be eligible to receive funding, These agreements will support groups in their operations and staffing levels with the services provided by the community group are to they provide~~ closely aligned to the Shire's strategic goals. ~~These groups are required to report six monthly against key performance indicators as agreed with the Shire.~~ Four year service agreements ~~will be~~ [are](#)

reserved for groups who bring a high level return on investment. It is generally expected that four year ~~these~~ service agreements will be offered recurrently, provided all conditions of funding are met.

Eligible community Ggroups seeking a four year service agreement are able to do so via submitting a detailed business case^[EN1].

An item regarding the request for the four year service agreement will be presented to Council for assessment and consideration through via its annual corporate business planning processes.

Successful funding recipients ~~These groups are required to report provide~~ six monthly reports against key performance indicators as agreed with the Shire.

Event Grant Agreements:

~~Multi-year event grant agreements may be offered to groups who have a proven track record in the delivery of their community based event. The initiatives funded at this level will be closely aligned to the Shire's strategic goals and have the ability to attract significant external funding. These groups are required to report annually against key performance indicators as agreed with the Shire. Clear administration processes must be in place, with robust business planning demonstrated. It is generally expected that multi-year event grant agreements will be offered recurrently, provided all conditions of funding are met.~~

~~There are three tiers of event grant agreements —~~

- ~~• One off annual community events grants
These grants are offered through the annual open, competitive, Community Grants Program (refer under Community Grants section). Event funding at this level is generally for those events that are local in nature and reinforce community connectedness and pride.
Two year agreements~~

4.1.2. Three Yyear Event Funding Areements

Three year event funding agreements may be offered ~~Provided to these community~~ groups who are delivering events that are regional in nature, are unique in their offering and have capacity to attract external visitors.

To be eligible to receive funding, the community group is to have a proven track record in the delivery of their community based event. The initiatives funded by a three year event funding agreement are to closely align to the Shire's strategic goals and have the ability to attract significant external funding. It is generally expected that three year event funding agreements will be offered recurrently, provided all conditions of funding are met.

Eligible community groups seeking a three year event funding agreement are to will be considered for this level of funding following submission of a detailed business case including details of administration processes in place and evidence of robust business planning.

An item regarding the request for the three year funding agreement will be presented to that~~that~~^[KW2] has been considered by Council via through its annual corporate business planning processes.

Successful funding recipients are required to provide annual reports against key performance indicators as agreed with the Shire.

4.1.3. Two Year Event Funding Agreements

Two year event funding agreements may be offered to those community groups who have a history of consistently and successfully delivering the event to be funded on five or more occasions. Funding at this level is developmental in nature with the intent of supporting groups to become further established and broaden their reach, whilst providing security of longer term funding^[EN3].

To be eligible to receive funding, the community group is to have a proven track record in the delivery of their community based event. The initiatives funded by a two year event funding agreement are to closely align to the Shire's strategic goals and have the ability to attract significant external funding. It is generally expected that two year event funding agreements will be offered recurrently, provided all conditions of funding are met.

~~An evaluation of the events must have been undertaken with evidence of achieving the events intended outcomes provided. Funding at this level is developmental in nature with the intent of supporting groups to become further established and broaden their reach whilst providing security of longer term funding.~~

Eligible community groups seeking a two year event funding agreement will be considered for this level of funding following are to submission of:

- a detailed business case including details of administration processes in place and robust business planning; and
- An evaluation of the event that will utilise the fundings must have been undertaken, with evidence of achieving the events intended outcomes provided^[EN4].

An item regarding the request for the two year event funding agreement will be presented ~~that has been considered by to~~ Council through via its annual corporate business planning processes.

Successful funding recipients are required to provide annual reports against key performance indicators as agreed with the Shire.

4.2. Community Grants Funding Program

The Shire provides ~~a variety of one-off~~ Community Events, Grants and Community Impact Grants through the ~~open, competitive,~~ Community Grants Funding Program.

“Community Funding Program Guidelines” (Appendix 1) pertaining to each of the following individual grants, ~~including eligibility criteria and promotional and acquittal obligations,~~ are ~~made~~ available ~~to all prospective applicants~~ via the Shire’s website and in paper copy on request.

4.2.1. Community Event Grants

Community Event Grants ~~This grant~~ provides funding to community groups wishing to run fetes, festivals, markets, sporting/recreational carnivals, exhibitions, ~~and~~ small performances and milestone and volunteer recognition events.

Eligibility criteria, promotion requirements and acquittal obligations are available in the “Community Funding Program Guidelines” (Appendix 1).

Grants under \$~~4~~3000 will be ~~assessed~~ determined by the ~~Chief Executive Officer~~ CEO.

Grants \$~~4~~3000 or greater (to a maximum of \$5000), will be ~~presented to~~ assessed by the Grants Selection Committee for assessment. The Grants Selection Committee is authorised to approve funding pursuant to this policy.

Council members will be notified of approved funding.

4.2.2. Matching Fund Grants

~~This grant provides funding for projects meeting the needs of the local community. Groups must be able to match the Shire funding dollar for dollar. Funding can be used towards equipment, minor capital upgrades, promotional material and training.~~

~~Grants under \$1000 will be assessed by the Chief Executive Officer.~~

~~Grants \$1000 or greater (to a maximum of \$2000), will be assessed by the Grants Selection Committee.~~

4.2.3. Quick Grants

~~This grant provides funding to groups for the purchase of small equipment, promotional material, training and any other small projects that benefit the community.~~

~~Assessment and allocation of funding through Community Quick Grants (to a maximum of \$500) will be undertaken by the Chief Executive Officer.~~

~~4.2.4. Giving Back Volunteer Recognition Grants – Milestone Event and Volunteer Recognition Event Grants~~

~~The Milestone Event grant provides funding to community groups to help them celebrate a significant milestone achievement.~~

~~Assessment of the Giving Back Milestone Grant will be undertaken by the Grants Selection Committee. One grant to a maximum value of \$2500 will be awarded annually.~~

~~The Volunteer Recognition Event Grant provides funding to volunteer based organisations within the shire to support groups wishing to undertake activities and celebrations for the benefit of their members with the purpose of recognising their contribution to the group.~~

~~Assessment of Volunteer Recognition Event Grants will be undertaken by the Chief Executive Officer (maximum of \$300 awarded to each group).~~

~~4.2.5. Youth Engagement Partnership Fund~~

~~The Shire works in partnership with community groups to deliver a range of programs and initiatives to local young people. The Fund provides a funding pool to community groups delivering initiatives that are aligned to the objectives of the Shire's youth services model.~~

~~Grants under \$1000 will be assessed by the Chief Executive Officer.~~

~~Grants \$1000 or greater (to a maximum of \$25,000), will be assessed by the Grants Selection Committee.~~

~~4.2.6. InspireArts – Community Creativity and Cultural Fund~~

~~The InspireArts Fund aims to support eligible applicants to carry out arts and culture initiatives which encourage new partnerships, improve access to arts and culture activity within the Shire, achieve long term artistic and cultural benefits and engage local residents.~~

~~Grants under \$1000 will be assessed by the Chief Executive Officer.~~

~~Grants \$1000 or greater (to a maximum of \$2000), will be assessed by the Grants Selection Committee.~~

~~Subheadings may be used in this section to separate information. Subheadings must be numbered and formatted as demonstrated below.~~

~~4.2.7. Youth Grants~~

~~The Youth Grants program is open to requests for financial support at any time of the year and is subject to availability of funds and Council adoption of the annual budget. Funds are distributed in a transparent and equitable manner.~~

The broad aim of the Youth Grants program is to encourage, recognise and provide financial assistance to young residents of the Shire in their pursuit of activities that:

- Support their development in their chosen area of interest (including sport and recreation, science, technology, arts, community service, culture and the environment); and
- Contribute positively to their engagement in the broader community and development of citizenship attributes.

Funding to support individuals will be determined through a Youth Grants application process and funds will be paid directly to the individual applicant.

Applicants must:

- be a resident of Shire of Mundaring;
- be aged between 8 and 18 years; and
- provide documentation from the relevant organising body confirming selection and/or a letter of support from the relevant school or club.

4.2.2. Community Impact Grants

Community Impact Grants provide funding to community groups to achieve positive impact outcomes for community through delivery of wellbeing programs or ~~purchase of:~~

- purchase of small equipment,
- undertaking minor capital upgrades,
- creation of promotional material,
- provision of training
- delivery of community activities.

Community Impact Grants also support the wellbeing of young residents of the Shire, aged ~~eight~~ 8-18 years, in their pursuit of activities that:

- support their development in their chosen area of interest including sport and recreation, science, technology, arts, community service, culture and the environment; and
- contribute positively to their engagement in the broader community and development of citizenship attributes.

Eligibility criteria, promotion requirements and acquittal obligations are available in the "Community Funding Program Guidelines" (Appendix 1).

Grants under \$3000 will be determined by the CEO.

Council members will be notified of approved funding.

4.2.3. Funding Allocation

Funding allocations for the Community Event Grant and Community Impact Grant will be determined as part of the

annual budgeting process. Unspent funds allocated to the Community Funding Program will not be carried forward to the next financial year.

5. APPENDICES

Appendix 1 [Community Funding Program Guidelines](#)

6. RELATED LEGISLATION

7. RELATED DOCUMENTS

Not Applicable

DRAFT



9.1.2 2025 Governance Committee Workplan

File Code	GV.MTG 6.9
Author	Elizabeth Nicholls, Governance Co-ordinator
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. 2025 Workplan - Policy Status and Schedule ↓

PURPOSE

For the Governance Committee to endorse the Governance Committee Work Plan (Work Plan) listing policies for development and review in the 2025 calendar year (**Attachment 1**).

BACKGROUND

The Work Plan provides a high level schedule of work to be undertaken.

STATUTORY / LEGAL IMPLICATIONS

Section 2.7 of the *Local Government Act 1995* (the Act), which outlines the role of Council was recently amended. Section 2.7 (2)(b) relates to Council's role in determining policies.

- (1) *The council governs the local government's affairs and, as the local government's governing body, is responsible for the performance of the local government's functions.*
- (2) *The council's governing role includes the following —*
 - (a) *overseeing the allocation of the local government's finances and resources;*
 - (b) *determining the local government's policies;*
 - (c) *planning strategically for the future of the district;*
 - (d) *determining the services and facilities to be provided by the local government in the district;*
 - (e) *selecting the CEO and reviewing the CEO's performance;*
 - (f) *providing strategic direction to the CEO.*

POLICY IMPLICATIONS

The "Policy Development and Review Policy" (2.2) provides "the process for the development and review of the Shire's policies..."

The "Community Engagement Policy" provides "principles that guide the Shire's approach to community engagement".

FINANCIAL IMPLICATIONS

Nil

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Governance

- Comply with relevant policy, legislation, regulation, criteria and guidelines.
- Deliver outcomes that are consistent with the strategic goals and objectives of the Shire.

RISK IMPLICATIONS

Risk: Reputation: Failure to review policies on a regular basis, especially ones of interest to the community, may lead the community to believe that the Shire does not have consistency and accountability when dealing with matters directed by policies and the credibility of the policy may be undermined.		
Likelihood	Consequence	Rating
Possible	Moderate	Moderate
Action / Strategy		
A review of the Shire’s policies is undertaken as scheduled by the Work Plan with consultation to be undertaken in accordance with the Shire’s “Community Engagement Policy”.		

Risk: Compliance: The Work Plan fails to consider the implications of the Work Plan on committee/ council member capacity, staff and financial resources and the review of associated procedures resulting in a back log of documents.		
Likelihood	Consequence	Rating
Possible	Moderate	Moderate
Action / Strategy		
The Work Plan is endorsed and any amendments made by the Committee are mindful of staff and committee capacity.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	✓
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	

EXTERNAL CONSULTATION

The Governance Committee determines which policies require community consultation and is incorporated into the Work Plan. Consultation to be undertaken in accordance with the Shire’s “Community Engagement Policy”.

COMMENT

The Work Plan has been developed based on:

- the previous version of the Work Plan for the 2024 calendar year endorsed 18 December 2023
- information previously received from council members, including policies resolved for creation by Council
- feedback from officers on policies relevant to their directorate or service area that require development or review due to community need or expectation, industry/organisational standards or legislated requirements .

It should be noted that the proposed reforms announced by the Department of Local Government may impact the scheduled Work Plan should there be a requirement to adopt Legislative Policies within a prescribed period of time.

Consideration has been given to:

- Provision of items to scheduled Governance Committee Meetings for review and endorsement and subsequent Council Meetings. Where there is not sufficient time at meetings, there may be a requirement for additional meetings or for items to be deferred.
- The Shire's "Community Engagement Policy". Scheduling considers engagement fatigue. Undertaking engagement provides the community opportunity to comment, with feedback considered for inclusion in the draft or reviewed policies as appropriate.
- Officer capacity to review or draft the policy.

The Governance service area is not responsible for drafting or reviewing policies for the entire organisation. Instead, Governance officers liaise with the subject matter experts from the relevant service area to facilitate the process and provide advice on good governance.

Council adopted policies may also have procedures and guidelines which also require review to ensure consistency with the relevant policy. Where possible, officers will concurrently review CEO approved policies, procedures and guidelines associated with Council adopted policies.

Some policies are not under the purview of the Governance Committee and as such are not included in the Work Plan. These include:

- Planning policies. Presented directly to Council. Developed and advertised in accordance with the *Planning and Development Act 2005*.
- Accounting and finance policies and practices. Presented to the Audit and Risk Committee in accordance with the Terms of Reference.

VOTING REQUIREMENT

Simple Majority

COMMITTEE RECOMMENDATION

That Council endorses the Governance Committee Work Plan listing policies for development and review in the 2025 calendar year (**Attachment 1**), subject to the following amendment:

1. Amend the Workplan to schedule the development of the Artificial Intelligence Policy, currently on hold, to recommence at the March 2025 Committee Workshop;
2. Delete the Youth Grants Policy review (as per Item 6.3 on the Governance Committee agenda).

2025 Workplan - Policy Status and Schedule

Primary	Task health	Commence	Scheduled Governance Workshop	Scheduled Governance Committee	Scheduled Council Meeting
1 Community Funding		Q3 2024	15 July 2024 18 November	17 February 2025	11 March 2025
2 Election Signage		Q4 2024			28 January 2025
3 Council Member and Independent Committee Members Fees, Expenses and Allowances		Q1 2025	17 March 2025	21 April 2025	13 May 2025
4 Youth Grants		Q1 2025		17 February 2025	11 March 2025
5 Use of AI		Q1 2025	17 March 2025	21 April 2025	13 May 2025
6 Community Gardens		Q1 2025	17 March 2025	21 April 2025	13 May 2025
7 Support for Volunteerism		Q1 2025	17 March 2025	21 April 2025	13 May 2025
8 Local Law Review		Q1 2025	17 March 2025 19 May 2025 21 July 2025 15 September 2025		
9 Bush Fire Service - Long Service and Outstanding Service Awards		Q1 2025	17 March 2025	21 April 2025	13 May 2025
10 Roadside Conservation		Q1 2025	17 March 2025	21 April 2025	13 May 2025
11 Temporary Accommodation		Q2 2025	19 May 2025	16 June 2025	8 July 2025
12 Mobile Vendors on Shire Owned or Managed Land		Q2 2025	19 May 2025	16 June 2025	8 July 2025
13 Complaint Management		Q2 2025	19 May 2025	16 June 2025	8 July 2025
14 Disposal of Minor Surplus Assets		Q3 2025	21 July 2025	18 August 2025	9 September 2025
15 Fraud and Corruption Control		Q3 2025	21 July 2025	18 August 2025	9 September 2025
16 Art Collection		Q3 2025	21 July 2025	18 August 2025	9 September 2025
17 Recreation Needs		Q3 2025	21 July 2025	18 August 2025	9 September 2025
18 Council Member Continuing Prof. Dev. Training and Prof. Membership		Q4 2025	15 September 2025	15 December 2025	2026
19 Code of Conduct for Council Members, Committee Members and Candidates		Q4 2025	15 September 2025	15 December 2025	2026
20 Conducting Electronic Meetings and Attendance by Electronic Means		Q4 2025	15 September 2025	15 December 2025	2026
21 Committees, Advisory Groups, Representatives Meetings and Working Groups		Q4 2025	17 November 2025	2026	2026
22 Live Streaming and Recording of Meetings		Q4 2025	17 November 2025	2026	2026

9.2 Reports of Audit and Risk Committee 25 February 2025

9.2.1 Review of Risk Management, Internal Controls and Legislative Compliance

File Code	GV.AUD 6
Author	Stan Kocian, Manager Finance and Governance
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. Paxon Regulation 17 Report ↓

PURPOSE

For the Audit and Risk Committee to review outcomes and recommend that Council endorse the review of the Shire's risk management, internal controls and legislative compliance, as required by regulation 17 of the *Local Government (Audit) Regulations 1996*.

BACKGROUND

In September 2024, submissions were sought in response to a public request for quotation process. Paxon Business and Financial Services Pty Ltd (Paxon) were awarded the contract to review of the appropriateness and effectiveness of the Shire's risk management, internal controls and legislative compliance systems and procedures.

Paxon undertook the review during November and December 2024.

STATUTORY / LEGAL IMPLICATIONS

Regulation 5(2)(c) the *Local Government (Financial Management) Regulations 1996* requires the CEO to review the Shire's financial management systems and procedures at least once in every three financial years.

Regulation 17 of the *Local Government (Audit) Regulations 1996* requires the CEO to review the Shire's risk management, internal control and legislative compliance systems and procedures at least once every three financial years.

POLICY IMPLICATIONS

A number of the Shire's policies were provided to Paxon as part of the review, including but not limited to:

- Procurement Policy (1.4)
- Risk Management Policy (2.16)
- Internal Audit Policy (2.18)

FINANCIAL IMPLICATIONS

A budget allocation for the appointment of an external contractor to undertake the reviews was included in the 2024/25 budget.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Nil

RISK IMPLICATIONS

Risk: Compliance: Failure to review the Shire’s financial management, risk management, internal controls and legislative compliance systems and procedures as required by legislation results in non-compliance with legislation.		
Likelihood	Consequence	Rating
Possible	Minor	Moderate
Action / Strategy		
Council notes the outcomes of the review.		

Risk: Reputation: Ineffective/inappropriate financial management, risk management, internal controls and legislative compliance systems and procedures results in errors/ misconduct.		
Likelihood	Consequence	Rating
Possible	Major	High
Action / Strategy		
Council notes the outcomes of the review with status updates provided to the Audit and Risk Committee on the actions/ suggested improvements.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	✓

EXTERNAL CONSULTATION

Paxon was engaged to undertake both reviews following a public request for quotation process.

COMMENT

A comprehensive scope of work was included in the request for quotation document. Paxon have provided a report with their findings (**Attachment 1**).

The below table summarises the findings, recommendations and agreed actions and the responsible Shire officer.

Audit Finding	Recommendation	Management Comments
Internal Audit Log	<p>Determine clear timelines to complete the transition of all currently open audit action items into the new database. These should enable monitoring and tracking of actions due through clear timeframes and responsible action owners.</p>	<p>Noted and accepted. The Internal Audit History Register tracks actions from previously completed internal audits. The OAG's findings resulted from its annual audit for 2023/24, which is an external audit. The Shire presents a status report of outstanding items, from both internal and external audits, to every Audit and Risk Committee meeting.</p> <p>The OAG action items will be included in the next status report to be presented to the Audit and Risk Committee on 25 February 2025.</p> <p>Action Owner: Manager Finance and Governance</p> <p>Target Completion Date: 25 February 2025</p>
Risk Management Documents	<p>Update the Risk Management Procedure including clear requirements to address the Shire's processes to ensure ongoing monitoring and reporting of strategic and operational risks, such as treatment action plans and risk owners.</p> <p>Consider the structures, content and potential for merging the current Risk Management Policy and the draft Risk Management Procedure.</p>	<p>Noted. The Shire had previously considered having the one combined document (policy and procedure), but determined it would be more appropriate to have two separate standalone documents. The policy, which is the responsibility of Council is adopted by Council, whilst the procedure is the responsibility of the Shire administration. If the procedure was combined with the policy document, the flexibility to amend the procedure as required would no longer exist, as every amendment to the procedure would need to be approved by Council as the procedure is incorporated within the policy document.</p>

		<p>Action Owner: Manager of Governance and Risk</p> <p>Target Completion Date: 31 December 2025</p>
Fraud Control Plan	<p>Develop a formal integrity framework addressing the requirements of the Public Sector Management Act. Consider developing a specific Fraud Control Plan (if key principles and requirements are not included within the Integrity Framework), leveraging guidance from the OAG and Public Sector Commission.</p>	<p>Noted. The Shire's Fraud Control Policy is scheduled to be reviewed by the Governance Committee in July 2025. The implementation of the Integrity Framework will be considered at that time.</p> <p>Action Owner: Manager Governance and Risk</p> <p>Target Completion Date: 30 September 2025</p>
Employee Delegations	<p>The Shire should consider developing a specific process to inform all officers with delegations in writing (e.g. via email or a form).</p>	<p>Noted and accepted. The annual review of the Delegations Register is currently in progress. The Delegations Register will be presented to Council in April 2025. Letters confirming delegations will be issued to relevant employees post the adoption of the Delegation Register.</p> <p>Action Owner: Manager of Governance and Risk</p> <p>Target Completion Date: 30 June 2025</p>
Public Interest Disclosure Processes	<p>Review and update the PID procedure in accordance with the applicable legislative requirements.</p> <p>Update and confirm the correct details of the PID officers to be contacted within the Shire's PID procedure.</p>	<p>Noted and accepted. The PID Procedure is scheduled to be reviewed by 30 September 2025</p> <p>PID Officers will be updated by 31 May 2025 when the new Manager Governance and Risk starts with the Shire. The Director of Statutory Services will be removed as PID Officer (the Manager of Building Assets</p>

		<p>is no longer a PID Officer).</p> <p>Action Owner: Manger of Governance and Risk</p> <p>Target Completion Date: 30 September 2025</p>
Complaints Management Documents	Review, update and consider merging the current Complaints Management Policy and Complaints Management Procedure.	<p>Noted. The Complaints Management Policy and Procedure is scheduled to be reviewed by the Governance Committee in May 2025</p> <p>As stated previously for the findings on the Risk Documents it would be more appropriate to have two separate standalone documents. The policy, which is the responsibility of Council is adopted by Council, whilst the procedure is the responsibility of the Shire administration. If the procedure was combined with the policy document, the flexibility to amend the procedure as required would no longer exist, as every amendment to the procedure would need to be approved by Council as the procedure is incorporated within the policy document.</p> <p>Action Owner: Director Corporate Services</p> <p>Target Completion Date: 30 June 2025</p>

The results of the review will be incorporated into the Shire’s Internal Audit History Register. The agreed management actions will also be included in the Audit and Risk Committee Status Reports that will be presented to each meeting until the time of completion.

VOTING REQUIREMENT

Simple Majority

COMMITTEE RECOMMENDATION

That Council notes the outcomes of the review of the Shire's risk management, internal controls and legislative compliance, as required by regulation 17 of the *Local Government (Audit) Regulations 1996*.

PAXON

SHIRE OF MUNDARING

Regulation 17 Internal Audit Review

Final | 12 February 2025

paxongroup.com.au

Perth • Sydney • Melbourne • Brisbane • Adelaide • Darwin |
Liability Limited by a scheme under Professional Standards Legislation

TABLE OF CONTENTS

1. INTRODUCTION	3
1.1 BACKGROUND & OBJECTIVE	3
1.2 RISKS & SCOPE	3
2. EXECUTIVE SUMMARY	4
3. METHODOLOGY	6
4. INHERENT LIMITATIONS	7
5. RISK MANAGEMENT	8
5.1 AUDIT FINDING – INTERNAL AUDIT LOG.....	8
5.2 AUDIT FINDING – RISK MANAGEMENT DOCUMENTS	9
6. INTERNAL CONTROL	10
6.1 AUDIT FINDING – FRAUD CONTROL PLAN	10
6.2 AUDIT FINDING – EMPLOYEE DELEGATIONS	11
7. LEGISLATIVE COMPLIANCE	12
7.1 AUDIT FINDING – PUBLIC INTEREST DISCLOSURE PROCESSES	12
7.2 AUDIT FINDING – COMPLAINTS MANAGEMENT DOCUMENTS	13

1. INTRODUCTION

1.1 Background & Objective

The objective of our Regulation 17 Review was to provide a report, based on our understanding of the Shire of Mundaring, to assist the CEO in reporting to the Audit and Risk Committee on the appropriateness and effectiveness of the Shire's systems and procedures in relation to risk management, internal control and legislative compliance.

Regulation 17 of the Local Government (Audit) Regulations 1996 states:

(1) The CEO is to review the appropriateness and effectiveness of a local government's systems and procedures in relation to —

(a) risk management; and

(b) internal control; and

(c) legislative compliance.

(2) The review may relate to any or all of the matters referred to in sub-regulation (1)(a), (b) and (c), but each of those matters is to be the subject of a review not less than once in every 3 financial years.

(3) The CEO is to report to the audit committee the results of that review.

1.2 Risks & Scope

The Regulation 17 Review focussed on the risk that the Shire's systems and procedures relating to risk management, internal control and legislative compliance are not appropriate and effective. The following specific areas were reviewed:

Risk Management

- Reviewing the effectiveness of the Shire's risk management system, including alignment with ISO 2018
- Assessment of internal processes for managing operating risk in comparison to tolerance
- Review of risk registers
- Insurance coverage
- Business continuity Planning and Disaster Recover
- Development of risk reports and reporting processes, including Committee
- Assessment of controls that are in place for unusual transactions

Internal Control

- Integrity and ethics
- Levels of responsibilities and delegated authority
- Information system access and security
- Policy and management practice
- Procurement policies and monitoring practices
- Audit practices, including follow-up of the findings raised in previous reviews, the compliance audit return and annual audit reports
- Fraud and misconduct framework

Legislative Compliance

- Assessment of the Shire's legislative compliance framework or individual measures in place, including reporting to Committee
- Complaints, whistleblowing and PID processes
- Conflicts of interest and Code of Conduct
- Compliance Audit Return process
- Freedom of Information
- Integrated Planning and Reported Framework

The fieldwork was performed in December 2024 and January 2025 and focussed on the processes and controls in place at that time, or their last point of operation.

2. EXECUTIVE SUMMARY

Paxon reviewed the appropriateness of design and operational effectiveness of the Shire’s systems and procedures in relation to risk management, internal controls and legislative compliance. Our work has highlighted several areas for improvement within the Shire’s processes and controls frameworks which are set out below.

Risk Area	Finding	Paxon Risk Rating
Risk Management	5.1 Internal Audit Log	Medium Risk
	5.2 Risk Management Documents	Medium Risk
Internal Control	6.1 Fraud Control Plan	Medium Risk
	6.2 Employee Delegations	Low Risk
Legislative Compliance	7.1 Public Interest Disclosure Processes	Low Risk
	7.2 Complaints Management Documents	Low Risk

Risk Management

Two findings have been identified. The first relating to strengthening the Shire’s Internal Audit Register used to monitor progress of the implementation of audit action items. The second to improve risk management processes through maintaining up to date documents, enable ongoing monitoring through development of treatment action plans and clearly defining risk owners.

Good Practice

The Shire’s Business Continuity Plan is current, and insurance certificates are maintained and supported by internal registers which have been reviewed and updated in a timely manner.

The Office of the Auditor General (OAG) has raised a recommendation in 2024 for the Shire to review its Disaster Recovery Plan and the Shire has already commenced work to complete these actions in a timely manner, with the actions not yet due.

Internal Control

Two findings have been identified relating to the requirement to develop a Fraud Control Plan to address requirements from the Public Sector Commission (PSC) and better practice by OAG, as well as implementing a process to inform employees of their specific delegations.

Good Practice

Improvements have been made since 2021 to address the actions arising from the previous Regulation 17 and Regulation 5 audits performed around inventory and asset management.

The ICT control environment has a framework and supporting policies in place, with regular monitoring of critical security risks and testing performed to rectify any gaps identified.

The Shire has good procurement processes in place. The procurement policy has been recently reviewed. The Shire also performs regular monitoring which has been able to identify non-compliances and exceptions to internal requirements effectively, which have contributed to the accuracy of the Compliance Audit Return process.

Paxon is also currently performing a Regulation 5 review for the Shire which is yet to be finalised. The outcomes from this review will be presented at a later stage and will provide further details on the Shire’s controls relating to financial processes.

Legislative Compliance

Two findings have been identified. The first to update the Shire's PID procedure which has not been reviewed since 2019 and to reflect the correct information related to its PID officers. The second relates to updating the Shire's complaints management policy and procedure which are out of date and considering combining both documents for efficiency. As well as the currency of complaints management documents. We also noted discrepancies in the information of the Shire's current PID officers available within its internal procedure, website and PSC's contact listing.

Other areas of legislative compliance such as maintaining an approved recordkeeping plan, freedom of information requirements and various governance registers on the Shire's website are current.

All Paxon's findings are summarised on the following page and documented in detail within sections 5-7 of this report.

We would like to thank all officers that have facilitated the performance of this review.

3. METHODOLOGY

Our methodology for this review comprised of the following steps:

- Conducted an initial meeting with management to obtain an understanding of processes and potential issues;
- Developed overview documentation of the processes including key controls by discussion with staff and review of the processes;
- Evaluated the effectiveness of the design of controls to cover the identified risk and tested the operation of the key controls;
- Followed up and confirmed action taken on any previous business issues identified and recommendations made;
- Researched the issues, weaknesses and potential improvements noted from our discussions and review of the existing processes and identified key controls;
- Developed appropriate recommendations for improvement for discussion with management;
- Drafted a report of findings and recommendations and obtained formal responses from management; and
- Finalised the report and issued it to Management for distribution to the Audit and Risk Committee.

Each finding detailed in section 5-7 is rated based on the following scale:

Rating	Definition
High	Major contravention of policies, procedures or laws, unacceptable internal controls, high risk for fraud, waste or abuse, major opportunity to improve effectiveness and efficiency, major risk identified. Immediate corrective action is required. A short-term fix may be needed prior to it being resolved properly.
Medium	Moderate contravention of policies, procedures or laws, poor internal controls, significant opportunity to improve effectiveness and efficiency, significant risk identified. Corrective action is required. Need to be resolved as soon as resources can be made available, but within six months.
Low	Minor contravention of policies and procedures, weak internal controls, opportunity to improve effectiveness and efficiency, moderate risk identified. Corrective action is required. Need to be resolved within twelve months.

4. INHERENT LIMITATIONS

Due to the inherent limitations in any internal control structure, it is possible errors or irregularities may occur and not be detected. Further, the internal control structure, within which the control procedures that have been reviewed operate, has not been reviewed in its entirety and therefore no opinion is expressed as to the effectiveness of the greater internal control structure.

It should also be noted our review was not designed to detect all weaknesses in control procedures as it was not performed continuously throughout the period subject to review.

The review conclusion and any opinion expressed in this report have been formed on the above basis.

5. RISK MANAGEMENT

5.1 Audit Finding – Internal Audit Log

The Shire has an Internal Audit History Register which functions as a summary of audit action items from previously completed audits. At the time of our review the Register was last updated to reflect audit action items as of February 2024, reflecting a gap in audit actions arising after this period.

Our review identified the following issues relating to the current Internal Audit History Register:

- Audit action items arising from OAG's audits completed in 2024 relating to the Shire's outdated disaster recovery plan as well as unorganised ICT inventory have not been recorded on the Register. These actions are currently due in March 2025.
- The Register does not capture target timeframes for completing audit action items
- The Register does not capture action owners responsible for completing audit action items
- Information from the Register is used to provide status updates to the Audit and Risk Committee on the progress and completion of audit action items, so they would not be informed of all actions.

The Shire informed Paxon that it is currently transitioning the content of the Register to a new database.

Risk Rating

Paxon has determined this finding to be of **Medium Risk**.

Possible Implication

Lack of processes to ensure completion of audit action items to address key risks and recommendations identified from completed audits.

Recommendation

Determine clear timelines to complete the transition of all currently open audit action items into the new database. These should enable monitoring and tracking of actions due through clear timeframes and responsible action owners.

Management Comment:

Noted and accepted. The Internal Audit History Register tracks actions from previously completed internal audits. The OAG's findings resulted from its annual audit for 2023/24, which is an external audit. The Shire presents a status report of outstanding items, from both internal and external audits, to every Audit and Risk Committee meeting.

The OAG action items will be included in the next status report to be presented to the Audit and Risk Committee on 25 February 2025.

Action Owner:

Manager Finance and Governance

Target Completion Date:

25 February 2025

5.2 Audit Finding – Risk Management Documents

The Shire has a Risk Management Policy and Risk Management Procedure in place. A Strategic Risk Register and Operational Risk Register are also maintained. Strategic Risks are reported through to the Shire’s Executive and Audit and Risk Committee.

The Risk Management policy was last reviewed in March 2024. This describes the Shire’s risk appetite and minimum treatment requirements to manage risks identified. Roles and responsibilities are also identified for Council, Audit and Risk Committee and the CEO.

The Risk Management Procedure in place is currently undergoing review and was last updated in 2016. The information contained within this document is obsolete. The Procedure refers to ISO requirements from 2009 which have been superseded by a 2018 version. The processes reflected within the document also do not accurately reflect the Shire’s current processes. We understand a new procedure is being drafted at this time.

We also identified that the Strategic Risk Register and Operational Risk Register do not contain treatment action plans. The Strategic Risk Register also does not identify the risk owners for each of the strategic risks identified. The Shire’s previous Regulation 17 report in 2021 also identified the lack of treatment action plans in place to provide ongoing monitoring of risks.

The Shire’s Risk Management Policy and draft Risk Management Procedure could be combined to provide a clearer and more holistic overview of the Shire’s approach and processes for risk management. The current content captures across both documents adequately cover the guiding principles of the AS/NZ ISO 31000:2018. However there is duplication of areas such as roles and responsibilities which could be combined into one single document.

Risk Rating

Paxon has determined this finding to be of **Medium Risk**.

Possible Implication

Failure to identify and manage risks resulting in strategic or operational impacts or failure to achieve desired objectives and outcomes.

Recommendation

- 5.2.1 Update the Risk Management Procedure including clear requirements to address the Shire’s processes to ensure ongoing monitoring and reporting of strategic and operational risks, such as treatment action plans and risk owners.
- 5.2.2 Consider the structures, content and potential for merging the current Risk Management Policy and the draft Risk Management Procedure.

Management Comment:

Noted. The Shire had previously considered having the one combined document (policy and procedure), but determined it would be more appropriate to have two separate standalone documents. The policy, which is the responsibility of Council is adopted by Council, whilst the procedure is the responsibility of the Shire administration. If the procedure was combined with the policy document, the flexibility to amend the procedure as required would no longer exist, as every amendment to the procedure would need to be approved by Council as the procedure is incorporated within the policy document.

Action Owner:

- 5.2.1 Manager Governance and Risk
- 5.2.2 No further action required

Target Completion Date:

- 5.2.1 31 December 2025
- 5.2.2 No further action required

6. INTERNAL CONTROL

6.1 Audit Finding – Fraud Control Plan

The Shire has a Fraud Control Policy in place. This document was last reviewed in September 2019. The Policy includes roles and responsibilities as well as brief coverage of prevention, detection and detection controls in place.

The Shire also has an Employee Code of Conduct and Governance Framework which are current and describe some requirements and processes related to misconduct, conflict of interests and fraud.

However, the Shire does not currently have any specific Fraud Control Plan or similar document in place.

The Public Sector Management Act requires a formal integrity framework to be in place. The OAG also provides specific guidance on fraud prevention which include better practice such as:

- developing a Fraud and Corruption Control Plan and review it at least once every 2 years
- developing and implement periodic fraud awareness training program for all staff
- document clear internal processes and systems to report any potential fraud, that include anonymous reporting

Within the documents that the Shire currently has in place, the key requirements and better practice relating to fraud awareness training, specifying clear processes for managing fraud risk are not in place.

Risk Rating

Paxon has determined this finding to be of **Medium Risk**.

Possible Implications

- Fraud processes and documents may not meet PSC requirements or OAG better practice.
- Failure to identify and manage risks (including fraud) resulting in strategic or operational impacts or failure to achieve desired objectives and outcomes.

Recommendation

Develop a formal integrity framework addressing the requirements of the Public Sector Management Act. Consider developing a specific Fraud Control Plan (if key principles and requirements are not included within the Integrity Framework), leveraging guidance from the OAG and Public Sector Commission.

Management Comment:

Noted. The Shire's Fraud Control Policy is scheduled to be reviewed by the Governance Committee in July 2025. The implementation of the Integrity Framework will be considered at that time.

Action Owner:

Manager Governance and Risk

Target Completion Date:

30 September 2025

6.2 Audit Finding – Employee Delegations

The Shire has a current Delegations Register in place that includes delegation to the CEO from Council as well as those sub-delegated by the CEO to Officers. The Register is also available on the Shire's website and is reviewed on an annual basis.

We identified through our review that the Shire does not currently have a process to formally advise individual officers of their specific delegations in writing. The Delegations Register is available for all staff to be able to access and relevant officers are advised of changes made to the Delegations Register as required. The Delegations Register is also included as part of new staff induction which was introduced in August 2024. However staff are not notified of their specific delegations in writing.

The Shire's Delegations Register is a 55-page document, and it is possible that employees may miss identifying the correct delegations assigned to them based on this document.

Risk Rating

Paxon has determined this finding to be of **Low Risk**.

Possible Implication

Officers are not informed of their delegations, resulting in incorrect use or lack of awareness.

Recommendation

The Shire should consider developing a specific process to inform all officers with delegations in writing (e.g. via email or a form).

Management Comment:

Noted and accepted. The annual review of the Delegations Register is currently in progress. The Delegations Register will be presented to Council in April 2025. Letters confirming delegations will be issued to relevant employees post the adoption of the Delegation Register.

Action Owner:

Manager Governance and Risk

Target Completion Date:

30 June 2025

7. LEGISLATIVE COMPLIANCE

7.1 Audit Finding – Public Interest Disclosure Processes

The Shire has published a Public Interest Disclosure (PID) procedure on its website which documents the PID requirements under the PID Act 2003 and reporting breaches to the Public Service Act and Corruption under the requirements of the Crime and Misconduct Act 2003.

The Shire also has a Code of Conduct for employees and a Complaints policy which was reviewed in October 2024.

Our review identified the following issues:

- The Shire’s PID procedure was last updated in June 2019 and has not been reviewed in the last 4 years
- The PID procedure does not differentiate between major and minor and the corresponding processes and timeframes of how the Shire would follow up and take necessary action. Guidance and requirements for this is provided within the Corruption, Crime and Misconduct Act 2003.
- Our review also identified differences in the published details of the Shire’s PID officers as follows:

PID Internal Procedure (June 2019)	Shire’s website	Public Service Commission listing (February 2025)
Director Statutory Services	Director Statutory Services	Director Statutory Services
-	Director Corporate Services	Director Corporate Services
Manager Building Assets	-	Manager Building Assets

The Shire confirmed that its current PID officers are the Director of Statutory Services and Director of Corporate Services. Thus the current details published on the PSC website and Shire’s internal PID Procedure are incorrect.

Risk Rating

Paxon has determined this finding to be of **Low Risk**.

Possible Implication

Lack of up-to-date information resulting in non-reporting or a failure to adequately address reports of fraud or misconduct.

Recommendation

- 7.1.1 Review and update the PID procedure in accordance with the applicable legislative requirements.
- 7.1.2 Update and confirm the correct details of the PID officers to be contacted within the Shire’s PID procedure.

Management Comment:

Noted and accepted. The PID Procedure is scheduled to be reviewed by 30 September 2025.

PID Officers will be updated by 31 May 2025 when the new Manager Governance and Risk starts with the Shire. The Director of Statutory Services will be removed as PID Officer (the Manager of Building Assets is no longer a PID Officer).

Action Owner:

Manger Governance and Risk

Target Completion Date:

30 September 2025

7.2 Audit Finding – Complaints Management Documents

The Shire has a Complaints Management Policy and Complaints Management Procedure, which were last reviewed and updated in October 2018.

The Policy describes some general principles and commitments of the Shire around receiving and managing complaints from the public. The application of this Policy is driven through the Complaints Management Procedure.

The Procedure is a more detailed document that provides a breakdown of roles and responsibilities, timeframes for resolution, processes and steps to record, manage and resolve complaints from the public. Complaints are classified into three levels each describing escalation processes for unresolved complaints at each stage. The Procedure also includes relevant templates of forms and checklists included within the process.

The Shire’s Complaints Management Policy and Complaints Management Procedure could be combined to provide a more holistic overview of the Shire’s approach and processes for complaints management.

Risk Rating

Paxon has determined this finding to be of **Low Risk**.

Possible Implication

Obsolete policies and procedures resulting in a lack of clear processes to receive and manage complaints from the public.

Recommendation

Review, update and consider merging the current Complaints Management Policy and Complaints Management Procedure.

Management Comment:

Noted. The Complaints Management Policy and Procedure is scheduled to be reviewed by the Governance Committee in May 2025

As stated previously for the findings on the Risk Documents it would be more appropriate to have two separate standalone documents. The policy, which is the responsibility of Council is adopted by Council, whilst the procedure is the responsibility of the Shire administration. If the procedure was combined with the policy document, the flexibility to amend the procedure as required would no longer exist, as every amendment to the procedure would need to be approved by Council as the procedure is incorporated within the policy document.

Action Owner:

Director Corporate Services

Target Completion Date:

30 June 2025

PAXON

SYDNEY

Level 15, 56 Pitt Street, Sydney NSW 2000
T: +61 2 8379 6144

PERTH

Level 5, 160 St Georges Terrace, Perth WA 6000
Telephone: +61 8 9476 3144

MELBOURNE

Level 27, 101 Collins Street, Melbourne VIC 3000
Telephone: +61 3 9111 0046

ADELAIDE

Level 30, 91 King William Street, Adelaide SA 5000
Telephone: +61 8 8113 5739

BRISBANE

Level 19, 10 Eagle Street, Brisbane QLD 4000
Telephone: +61 7

paxongroup.com.au | mail@paxongroup.com.au

9.2.2 2024 Compliance Audit Review

File Code	GV.CAR and GV.AUD 6
Author	Stan Kocian, Manager Finance and Governance
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. Compliance Audit Return 2024 ↓ 2. Paxon Compliance Audit Review Report ↓

PURPOSE

The Audit and Risk Committee is requested to review the completed 2024 Compliance Audit Return (the Return) (**Attachment 1**) and recommend its adoption to Council for the Shire President and Chief Executive Officer to certify the Return.

BACKGROUND

In September 2024, submissions were sought in response to a public request for quotation process. Paxon Business and Financial Services Pty Ltd (Paxon) were awarded the contract to provide a completed compliance audit return relating to the prescribed statutory requirements in regulation 13 of the *Local Government (Audit) Regulations 1996*.

Paxon undertook the review during November and December 2024.

The Return, after being adopted by Council, is required to be submitted to the Department of Local Government, Sport and Cultural Industries by the due date of 31 March 2025.

STATUTORY / LEGAL IMPLICATIONS

In accordance with the *Local Government Act 1995* (the Act) and *Local Government (Audit) Regulations 1996*, a local government is required to complete an annual Return for the period 1 January to 31 December of the preceding year.

The Return covers a sample of legislative provisions required under the provisions of the Act, which is required to be completed by officers and endorsed by Council prior to submission.

POLICY IMPLICATIONS

The “Internal Audit Policy” (2.18) provides that the CEO will develop a four-year Internal Audit Plan each financial year, using a risk-based strategy and providing appropriate coverage of the Shire’s programs and activities.

The Internal Audit Plan 2023/24 to 2026/27 provides for the Compliance Audit Return to be completed in 2024/25 financial year to be conducted by an external auditor.

FINANCIAL IMPLICATIONS

A budget allocation for the appointment of an external contractor to undertake the reviews was included in the 2024/25 budget.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.3 - Effectively inform and engage the community about local issues, facilities, services and events.

SUSTAINABILITY IMPLICATIONS

Nil

RISK IMPLICATIONS

Risk: Compliance: Failure to complete and submit the Return by 31 March 2025 would result in non-compliance with the legislative requirements of the Local Government (Audit) Regulations 1996..		
Likelihood	Consequence	Rating
Unlikely	Minor	Low
Action / Strategy		
On an annual basis, officers complete the Return in January, the Return is then considered by the Audit and Risk Committee in February and subsequently Council adopts the Return at the March Ordinary Council Meeting.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	✓

EXTERNAL CONSULTATION

Paxon was engaged to undertake the review following a public request for quotation process.

COMMENT

The purpose of the Return is for individual local governments to assess their level of compliance with Act and associated regulations.

The Return has a total of 94 questions focused on the following areas of compliance:

1. Commercial Enterprises by Local Governments (5 questions)
2. Delegation of Power/ Duty (13 questions)
3. Disclosure of Interest (21 questions)
4. Disposal of Property (2 questions)
5. Elections (3 questions)
6. Finance (7 questions)
7. Integrated Planning and Reporting (3 questions)
8. Local Government Employees (5 questions)
9. Official Conduct (4 questions)
10. Optional questions (9 questions)
11. Tenders for Providing Goods and Services (22 questions)

The Shire has achieved a 98% compliance rating for the period covered by the Return (a score of 92 out of 94 questions).

This compares with the Shire achieving the following levels of compliance in recent years:

Year	Compliance
2023	95%
2022	99%
2021	96%
2020	99%
2019	98%
2018	98%
2017	99%
2016	100%
2015	100%
2014	97.5%

The Return and Paxon's Report (**Attachment 2**) are both provided as attachments to this report.. There were two instances of non-compliance highlighted in the Return. Paxon, within their report, provided the following comments and observations on the two instances of non-compliance:

Paxon reviewed the CAR responses provided by the Shire. The instances of non-compliance were identified through internal weekly monitoring checks in place for procurement and tenders. Details of the exceptions noted are as follows:

- *Tenders for Providing Goods and Services CAR Question 1 - There were instances where an insufficient number of quotes were sought without the appropriate Director's approval. Based on the Shire's weekly procurement checks performed, Paxon identified a total of six instances of non-compliance for this item in 2024. However the Shire informed Paxon that it commenced performing weekly checks during the year 2024 hence there may have been further instances of a similar nature.*
- *Tenders for Providing Goods and Services CAR Question 3 - One instance of non-compliance for a tender relating to the Bilgoman Aquatic Centre. This tender was not advertised via State-wide public notice which was identified by the Shire and confirmed by Paxon.*

For the exceptions identified, the root causes were investigated by the Shire and it is reasonable that no corrective actions were possible to address the instances of non-compliance which had already occurred in 2024. Action was taken to address the necessary processes to prevent future non-compliances. As the non-compliances identified only related to some tenders and not all, Paxon has determined that the Shire partially complies with the requirements of the CAR questions.

We have also obtained a good understanding of the Shire's procurement processes and checks in place to monitor non-compliances and exceptions through the Regulation 17 that was being performed concurrently with the CAR work. The following processes and controls were noted:

The Shire has a Procurement Policy and Procedure in place, both of which were recently reviewed in 2024. These documents were detailed and provide adequate guidance on the legislative and internal requirements to staff.

The Shire has a process to include the advice and guidance from legal as required to support procurement processes.

The Shire has good recordkeeping practices including various templates to support procurement processes and compliance requirements.

A contracts register is in place to track and monitor ongoing contracts and issues.

The Shire performs weekly checks to ascertain compliance to legislative requirements and adherence to internal procurement requirements. Status and trends of non-compliances are identified as part of this process.

VOTING REQUIREMENT

Simple Majority

COMMITTEE RECOMMENDATION

That Council:

1. Adopts the completed 2024 Compliance Audit Return for the period 1 January 2024 to 31 December 2024.
2. Notes the areas on non-compliance listed in the Compliance Audit Return; and
3. Authorises the Shire President and Chief Executive Officer to certify the Compliance Audit Return so it may be submitted to the Department of Local Government, Sport and Cultural Industries by the due date of 31 March 2025.



Mundaring – Compliance Audit Return

Commercial Enterprises by Local Governments				
No	Reference	Question	Response	Comments
1	s3.59(2)(a) F&G Regs 7,9,10	Has the local government prepared a business plan for each major trading undertaking that was not exempt in 2024?	N/A	
2	s3.59(2)(b) F&G Regs 7,8A, 8, 10	Has the local government prepared a business plan for each major land transaction that was not exempt in 2024?	N/A	
3	s3.59(2)(c) F&G Regs 7,8A, 8,10	Has the local government prepared a business plan before entering into each land transaction that was preparatory to entry into a major land transaction in 2024?	N/A	
4	s3.59(4)	Has the local government complied with public notice and publishing requirements for each proposal to commence a major trading undertaking or enter into a major land transaction or a land transaction that is preparatory to a major land transaction for 2024?	N/A	
5	s3.59(5)	During 2024, did the council resolve to proceed with each major land transaction or trading undertaking by absolute majority?	N/A	

Delegation of Power/Duty				
No	Reference	Question	Response	Comments
1	s5.16 (1)	Were all delegations to committees resolved by absolute majority?	Yes	Delegations Register reviewed and adopted by absolute majority 11 June 2024 (C12.05.24).
2	s5.16 (2)	Were all delegations to committees in writing?	Yes	Delegations Register available on Shire's website under 'Governance Registers'
3	s5.17	Were all delegations to committees within the limits specified in section 5.17 of the Local Government Act 1995?	Yes	Delegations Register reviewed and adopted by absolute majority 11 June 2024 (C12.05.24).
4	s5.18	Were all delegations to committees recorded in a register of delegations?	Yes	Included in Delegations Register: COM-46 Annual Meeting with Auditor.



5	s5.18	Has council reviewed delegations to its committees in the 2023/2024 financial year?	Yes	
6	s5.42(1) & s5.43 Admin Reg 18G	Did the powers and duties delegated to the CEO exclude those listed in section 5.43 of the Local Government Act 1995?	Yes	
7	s5.42(1)	Were all delegations to the CEO resolved by an absolute majority?	Yes	
8	s5.42(2)	Were all delegations to the CEO in writing?	Yes	
9	s5.44(2)	Were all delegations by the CEO to any employee in writing?	Yes	
10	s5.16(3)(b) & s5.45(1)(b)	Were all decisions by the Council to amend or revoke a delegation made by absolute majority?	Yes	Delegation CE-84 amended 11 June 2024 (C11.06.24)
11	s5.46(1)	Has the CEO kept a register of all delegations made under Division 4 of the Act to the CEO and to employees?	Yes	
12	s5.46(2)	Were all delegations made under Division 4 of the Act reviewed by the delegator at least once during the 2023/2024 financial year?	Yes	
13	s5.46(3) Admin Reg 19	Did all persons exercising a delegated power or duty under the Act keep, on all occasions, a written record in accordance with Local Government (Administration) Regulations 1996, regulation 19?	Yes	Form, email, letter, memorandum etc. of delegation exercised entered into Shire's record keeping system.

Disclosure of Interest				
No	Reference	Question	Response	Comments
1	s5.67	Where a council member disclosed an interest in a matter and did not have participation approval under sections 5.68 or 5.69 of the Local Government Act 1995, did the council member ensure that they did not remain present to participate in discussion or decision making relating to the matter?	Yes	Minutes show where financial interests were disclosed that required a council member to leave a meeting they did so.
2	s5.68(2) & s5.69(5) Admin Reg 21A	Were all decisions regarding participation approval, including the extent of participation allowed and, where relevant, the information required by the Local Government (Administration) Regulations 1996 regulation 21A, recorded in the minutes of the relevant council or committee meeting?	Yes	Minutes include details of participation approval.
3	s5.73	Were disclosures under sections 5.65, 5.70 or 5.71A(3) of the Local Government Act 1995 recorded in the minutes of the meeting at which the disclosures were made?	Yes	
4	s5.75 Admin Reg 22, Form 2	Was a primary return in the prescribed form lodged by all relevant persons within three months of their start day?	Yes	



5	s5.76 Admin Reg 23, Form 3	Was an annual return in the prescribed form lodged by all relevant persons by 31 August 2024?	Yes	
6	s5.77	On receipt of a primary or annual return, did the CEO, or the Mayor/President, give written acknowledgment of having received the return?	Yes	
7	s5.88(1) & (2)(a)	Did the CEO keep a register of financial interests which contained the returns lodged under sections 5.75 and 5.76 of the Local Government Act 1995?	Yes	Completed returns entered into Shire's record keeping system. Centralised register maintained.
8	s5.88(1) & (2)(b) Admin Reg 28	Did the CEO keep a register of financial interests which contained a record of disclosures made under sections 5.65, 5.70, 5.71 and 5.71A of the Local Government Act 1995, in the form prescribed in the Local Government (Administration) Regulations 1996, regulation 28?	Yes	Completed disclosure forms entered into Shire's record keeping system. Centralised register maintained of completed disclosure forms and disclosures made at meetings
9	s5.88(3)	When a person ceased to be a person required to lodge a return under sections 5.75 and 5.76 of the Local Government Act 1995, did the CEO remove from the register all returns relating to that person?	Yes	
10	s5.88(4)	Have all returns removed from the register in accordance with section 5.88(3) of the Local Government Act 1995 been kept for a period of at least five years after the person who lodged the return(s) ceased to be a person required to lodge a return?	Yes	Retained in Shire's record keeping system.
11	s5.89A(1), (2) & (3) Admin Reg 28A	Did the CEO keep a register of gifts which contained a record of disclosures made under sections 5.87A and 5.87B of the Local Government Act 1995, in the form prescribed in the Local Government (Administration) Regulations 1996, regulation 28A?	Yes	
12	s5.89A(5) & (5A)	Did the CEO publish an up-to-date version of the gift register on the local government's website?	Yes	Available on Shire's website under 'Governance Registers'.
13	s5.89A(6)	When people cease to be a person who is required to make a disclosure under section 5.87A or 5.87B of the Local Government Act 1995, did the CEO remove from the register all records relating to those people?	Yes	
14	s5.89A(7)	Have copies of all records removed from the register under section 5.89A(6) of the Local Government Act 1995 been kept for a period of at least five years after the person ceases to be a person required to make a disclosure?	Yes	Retained in Shire's record keeping system.



15	s5.70(2) & (3)	Where an employee had an interest in any matter in respect of which the employee provided advice or a report directly to council or a committee, did that person disclose the nature and extent of that interest when giving the advice or report?	Yes	
16	s5.71A & s5.71B(5)	Where council applied to the Minister to allow the CEO to provide advice or a report to which a disclosure under section 5.71A(1) of the Local Government Act 1995 relates, did the application include details of the nature of the interest disclosed and any other information required by the Minister for the purposes of the application?	N/A	
17	s5.71B(6) & s5.71B(7)	Was any decision made by the Minister under section 5.71B(6) of the Local Government Act 1995, recorded in the minutes of the council meeting at which the decision was considered?	Yes	Ministerial approval sought as required (Provision of Financial Assistance for Legal Representation Policy)
18	s5.104(1)	Did the local government prepare and adopt, by absolute majority, a code of conduct to be observed by council members, committee members candidates that incorporates the model code of conduct?	Yes	Adopted 13 April 2021 (C10.04.21). Reviewed 13 December 2022 (C5.12.22).
19	s5.104(3) & (4)	Did the local government adopt additional requirements in addition to the model code of conduct? If yes, does it comply with section 5.104(3) and (4) of the Local Government Act 1995?	Yes	Clauses 2.2 and 2.3 in addition to model. Clauses comply with section 5.104 (3) and (4).
20	s5.104(7)	Has the CEO published an up-to-date version of the code of conduct for council members, committee members and candidates on the local government's website?	Yes	Code of Conduct for Council Members, Committee Members and Candidates available on the Shire's website under 'Policies'.
21	s5.51A(1) & (3)	Has the CEO prepared and implemented a code of conduct to be observed by employees of the local government? If yes, has the CEO published an up-to-date version of the code of conduct for employees on the local government's website?	Yes	The Code of Conduct for Employees was reviewed in October 2024.

Disposal of Property

No	Reference	Question	Response	Comments
----	-----------	----------	----------	----------



1	s3.58(3)	Where the local government disposed of property other than by public auction or tender, did it dispose of the property in accordance with section 3.58(3) of the Local Government Act 1995 (unless section 3.58(5) applies)?	Yes	<ul style="list-style-type: none"> Youth Futures lease at Swan View Youth Centre - exempt under section 3.58(5) Kiosk at lake Leschenaultia – disposed of in accordance with section 3.58(3).
2	s3.58(4)	Where the local government disposed of property under section 3.58(3) of the Local Government Act 1995, did it provide details, as prescribed by section 3.58(4), in the required local public notice for each disposal of property?	Yes	

Elections				
No	Reference	Question	Response	Comments
1	Elect Regs 30G(1) & (2)	Did the CEO establish and maintain an electoral gift register and ensure that all disclosure of gifts forms completed by candidates and donors and received by the CEO were placed on the electoral gift register at the time of receipt by the CEO and in a manner that clearly identifies and distinguishes the forms relating to each candidate in accordance with regulations 30G(1) and 30G(2) of the Local Government (Elections) Regulations 1997?	Yes	Ordinary election held Saturday 21 October 2023. Gift declarations received included on electoral gift register.
2	Elect Regs 30G(3) & (4)	Did the CEO remove any disclosure of gifts forms relating to an unsuccessful candidate, or a successful candidate that completed their term of office, from the electoral gift register, and retain those forms separately for a period of at least two years in accordance with regulation 30G(4) of the Local Government (Elections) Regulations 1997?	N/A	No gift declarations required to be removed from electoral gift register.
3	Elect Regs 30G(5) & (6)	Did the CEO publish an up-to-date version of the electoral gift register on the local government's official website in accordance with regulation 30G(5) of the Local Government (Elections) Regulations 1997?	Yes	Available on Shire's website under 'Governance Registers'

Finance				
No	Reference	Question	Response	Comments



1	s7.1A	Has the local government established an audit committee and appointed members by absolute majority in accordance with section 7.1A of the Local Government Act 1995?	Yes	Members appointed by absolute majority at Special Council Meeting held 31 October 2023 (SC12.10.23). Replacement member (due to resignation) appointed by absolute majority at December 2023 Ordinary Council Meeting (C7.12.23)
2	s7.1B	Where the council delegated to its audit committee any powers or duties under Part 7 of the Local Government Act 1995, did it do so by absolute majority?	Yes	COM-46 Annual Meeting with Auditor. Delegations Register reviewed and adopted by absolute majority 14 May 2024 (C12.05.24).
3	s7.9(1)	Was the auditor's report for the financial year ended 30 June 2024 received by the local government by 31 December 2024?	Yes	Received 3 December 2024
4	s7.12A(3)	Where the local government determined that matters raised in the auditor's report prepared under section 7.9(1) of the Local Government Act 1995 required action to be taken, did the local government ensure that appropriate action was undertaken in respect of those matters?	N/A	
5	s7.12A(4)(a) & (4)(b)	Where matters identified as significant were reported in the auditor's report, did the local government prepare a report that stated what action the local government had taken or intended to take with respect to each of those matters? Was a copy of the report given to the Minister within three months of the audit report being received by the local government?	N/A	
6	s7.12A(5)	Within 14 days after the local government gave a report to the Minister under section 7.12A(4)(b) of the Local Government Act 1995, did the CEO publish a copy of the report on the local government's official website?	N/A	
7	Audit Reg 10(1)	Was the auditor's report for the financial year ending 30 June 2024 received by the local government within 30 days of completion of the audit?	Yes	Audit exit meeting conducted 2 December 2024 and Audit Report received 3 December 2024

Local Government Employees

No	Reference	Question	Response	Comments
1	s5.36(4) & s5.37(3) Admin Reg 18A	Were all CEO and/or senior employee vacancies advertised in accordance with Local Government (Administration) Regulations 1996, regulation 18A?	N/A	No CEO or senior employee vacancies in reporting period.



2	Admin Reg 18E	Was all information provided in applications for the position of CEO true and accurate?	N/A	
3	Admin Reg 18F	Was the remuneration and other benefits paid to a CEO on appointment the same remuneration and benefits advertised for the position under section 5.36(4) of the Local Government Act 1995?	N/A	
4	s5.37(2)	Did the CEO inform council of each proposal to employ or dismiss senior employee?	N/A	
5	s5.37(2)	Where council rejected a CEO's recommendation to employ or dismiss a senior employee, did it inform the CEO of the reasons for doing so?	N/A	

Official Conduct				
No	Reference	Question	Response	Comments
1	s5.120	Has the local government designated an employee to be its complaints officer?	Yes	CEO designated as Complaints Officer 9 February 2021 (C12.02.21).
2	s5.121(1) & (2)	Has the complaints officer for the local government maintained a register of complaints which records all complaints that resulted in a finding under section 5.110(2)(a) of the Local Government Act 1995?	Yes	
3	S5.121(2)	Does the complaints register include all information required by section 5.121(2) of the Local Government Act 1995?	Yes	
4	s5.121(3)	Has the CEO published an up-to-date version of the register of the complaints on the local government's official website?	Yes	Available on Shire's website under 'Governance Registers'

Tenders for Providing Goods and Services				
No	Reference	Question	Response	Comments
1	F&G Reg 11A(1) & (3)	Did the local government comply with its current purchasing policy, adopted under the Local Government (Functions and General) Regulations 1996, regulations 11A(1) and (3) in relation to the supply of goods or services where the consideration under the contract was, or was expected to be, \$250,000 or less or worth \$250,000 or less?	No	There were instances that an insufficient number of quotes were sought without the appropriate Director's approval. Internal checks completed on a weekly basis.



2	s3.57 F&G Reg 11	Subject to Local Government (Functions and General) Regulations 1996, regulation 11(2), did the local government invite tenders for all contracts for the supply of goods or services where the consideration under the contract was, or was expected to be, worth more than the consideration stated in regulation 11(1) of the Regulations?	Yes	
3	F&G Regs 11(1), 12(2), 13, & 14(1), (3), and (4)	When regulations 11(1), 12(2) or 13 of the Local Government Functions and General) Regulations 1996, required tenders to be publicly invited, did the local government invite tenders via Statewide public notice in accordance with Regulation 14(3) and (4)?	No	One instance of non-compliance. A tender was not advertised via State-wide public notice in accordance with the <i>Local Government (Functions and General) Regulations 1996</i> . 5 Companies attended compulsory site briefing and 4 submitted tenders
4	F&G Reg 12	Did the local government comply with Local Government (Functions and General) Regulations 1996, Regulation 12 when deciding to enter into multiple contracts rather than a single contract?	Yes	
5	F&G Reg 14(5)	If the local government sought to vary the information supplied to tenderers, was every reasonable step taken to give each person who sought copies of the tender documents, or each acceptable tenderer notice of the variation?	Yes	
6	F&G Regs 15 & 16	Did the local government's procedure for receiving and opening tenders comply with the requirements of Local Government (Functions and General) Regulations 1996, Regulation 15 and 16?	Yes	Forum/Addendum provided via Tenderlink where applicable.
7	F&G Reg 17	Did the information recorded in the local government's tender register comply with the requirements of the Local Government (Functions and General) Regulations 1996, Regulation 17 and did the CEO make the tenders register available for public inspection and publish it on the local government's official website?	Yes	Available on Shire's website under 'Governance Registers'.
8	F&G Reg 18(1)	Did the local government reject any tenders that were not submitted at the place, and within the time, specified in the invitation to tender?	N/A	Tenderlink automatically cuts off submissions at close
9	F&G Reg 18(4)	Were all tenders that were not rejected assessed by the local government via a written evaluation of the extent to which each tender satisfies the criteria for deciding which tender to accept?	Yes	
10	F&G Reg 19	Did the CEO give each tenderer written notice containing particulars of the successful tender or advising that no tender was accepted?	Yes	



11	F&G Regs 21 & 22	Did the local government's advertising and expression of interest processes comply with the requirements of the Local Government (Functions and General) Regulations 1996, Regulations 21 and 22?	N/A	No expressions of interest sought
12	F&G Reg 23(1) & (2)	Did the local government reject any expressions of interest that were not submitted at the place, and within the time, specified in the notice or that failed to comply with any other requirement specified in the notice?	N/A	
13	F&G Reg 23(3) & (4)	Were all expressions of interest that were not rejected under the Local Government (Functions and General) Regulations 1996, Regulation 23(1) & (2) assessed by the local government? Did the CEO list each person as an acceptable tenderer?	N/A	
14	F&G Reg 24	Did the CEO give each person who submitted an expression of interest a notice in writing of the outcome in accordance with Local Government (Functions and General) Regulations 1996, Regulation 24?	N/A	
15	F&G Regs 24AD(2) & (4) and 24AE	Did the local government invite applicants for a panel of pre-qualified suppliers via Statewide public notice in accordance with Local Government (Functions & General) Regulations 1996 regulations 24AD(4) and 24AE?	N/A	No panels were sought
16	F&G Reg 24AD(6)	If the local government sought to vary the information supplied to the panel, was every reasonable step taken to give each person who sought detailed information about the proposed panel or each person who submitted an application notice of the variation?	N/A	No panels were sought
17	F&G Reg 24AF	Did the local government's procedure for receiving and opening applications to join a panel of pre-qualified suppliers comply with the requirements of Local Government (Functions and General) Regulations 1996, Regulation 16, as if the reference in that regulation to a tender were a reference to a pre-qualified supplier panel application?	N/A	
18	F&G Reg 24AG	Did the information recorded in the local government's tender register about panels of pre-qualified suppliers comply with the requirements of Local Government (Functions and General) Regulations 1996, Regulation 24AG?	N/A	
19	F&G Reg 24AH(1)	Did the local government reject any applications to join a panel of pre-qualified suppliers that were not submitted at the place, and within the time, specified in the invitation for applications?	N/A	



20	F&G Reg 24AH(3)	Were all applications that were not rejected assessed by the local government via a written evaluation of the extent to which each application satisfies the criteria for deciding which application to accept?	N/A	
21	F&G Reg 24AI	Did the CEO send each applicant written notice advising them of the outcome of their application?	N/A	
22	F&G Regs 24E & 24F	Where the local government gave regional price preference, did the local government comply with the requirements of Local Government (Functions and General) Regulations 1996, Regulation 24E and 24F?	N/A	Regional price preference not applicable to the Shire

Integrated Planning and Reporting				
No	Reference	Question	Response	Comments
1	Admin Reg 19C	Has the local government adopted by absolute majority a strategic community plan? If Yes, please provide the adoption date or the date of the most recent review in the Comments section?	Yes	31/07/2024 Council Plan incorporating the strategic community plan and corporate business plan adopted by absolute majority 31 July 2024 (SC2.07.24)
2	Admin Reg 19DA(1) & (4)	Has the local government adopted by absolute majority a corporate business plan? If Yes, please provide the adoption date or the date of the most recent review in the Comments section?	Yes	31/07/2024 See comment above.
3	Admin Reg 19DA(2) & (3)	Does the corporate business plan comply with the requirements of Local Government (Administration) Regulations 1996 19DA(2) & (3)?	Yes	See comment above. Council Plan available on the Shire's website.

Optional Questions				
No	Reference	Question	Response	Comments
1	Financial Management Reg 5(2)(c)	Did the CEO review the appropriateness and effectiveness of the local government's financial management systems and procedures in accordance with the Local Government (Financial Management) Regulations 1996 regulations 5(2)(c) within the three financial years prior to 31 December	Yes	25/01/2022 Review undertaken and presented to Council 25 January 2022 (C5.01.22).



		2024? If yes, please provide the date of council's resolution to accept the report.		
2	Audit Reg 17	Did the CEO review the appropriateness and effectiveness of the local government's systems and procedures in relation to risk management, internal control and legislative compliance in accordance with Local Government (Audit) Regulations 1996 regulation 17 within the three financial years prior to 31 December 2024? If yes, please provide date of council's resolution to accept the report.	Yes	25/01/2022 Review undertaken and presented to Council 25 January 2022 (C5.01.22).
3	s5.87C	Where a disclosure was made under sections 5.87A or 5.87B of the Local Government Act 1995, were the disclosures made within 10 days after receipt of the gift? Did the disclosure include the information required by section 5.87C of the Act?	Yes	
4	s5.90A(2) & (5)	Did the local government prepare, adopt by absolute majority and publish an up-to-date version on the local government's website, a policy dealing with the attendance of council members and the CEO at events?	Yes	Attendance by Council Members and CEO at Conferences and Events Policy" reviewed and adopted in January 2024 (C9.01.24). Available on the Shire's website under 'Policies'.
5	s5.96A(1), (2), (3) & (4)	Did the CEO publish information on the local government's website in accordance with sections 5.96A(1), (2), (3), and (4) of the Local Government Act 1995?	Yes	
6	s5.128(1)	Did the local government prepare and adopt (by absolute majority) a policy in relation to the continuing professional development of council members?	Yes	"Council Member Continuing Professional Development, Training and Professional Membership Policy" reviewed and adopted in January 2024 (C8.01.24). Available on the Shire's website under 'Policies'
7	s5.127	Did the local government prepare a report on the training completed by council members in the 2023/2024 financial year and publish it on the local government's official website by 31 July 2024?	Yes	Available on Shire's website under 'Governance Registers'
8	s6.4(3)	By 30 September 2024, did the local government submit to its auditor the balanced accounts and annual financial report for the year ending 30 June 2024?	Yes	Balanced accounts and annual financial report were submitted 13 September 2024.



9	s.6.2(3)	When adopting the annual budget, did the local government take into account all its expenditure, revenue and income?	Yes	
---	----------	--	-----	--

Chief Executive Officer

Date

Mayor/President

Date

PAXON

SHIRE OF MUNDARING

Compliance Audit Return Review (2024)

Final | 12 February 2025

paxongroup.com.au

Perth • Sydney • Melbourne • Brisbane • Adelaide • Darwin |
Liability Limited by a scheme under Professional Standards Legislation

TABLE OF CONTENTS

- 1. INTRODUCTION.....3
- 1.1 BACKGROUND.....3
- 1.2 OBJECTIVE.....3
- 1.3 SCOPE.....3
- 1.4 RISK.....3
- 2. EXECUTIVE SUMMARY.....4
- 3. METHODOLOGY.....6
- 4. INHERENT LIMITATIONS.....7
- 5. DETAILED FINDINGS.....8
- 5.1 PARTIAL NON-COMPLIANCE TO CAR QUESTIONS – TENDERS FOR PROVIDING GOODS AND SERVICES.....8
- 5.2 CONSOLIDATE CAR RESPONSES FOR COMPLIANT ITEMS.....10

1. INTRODUCTION

1.1 Background

Paxon was engaged by the Shire of Mundaring (Shire) to conduct a review of the Annual Compliance Audit Return (CAR) 2024 completed by management.

The Local Government (Audit) Regulations 1996 under regulation 14 requires each local government to carry out a compliance audit for the period 1 January – 31 December 2024. The Department of Local Government, Sport and Cultural Industries (the Department) sets the scope of questions contained within the CAR each year and it is made available usually in January after the year to which it relates. The final CAR is required to be reported to Audit and Risk Committee (the Committee) and Council prior to reporting to the Department by 31 March 2025. The areas covered by the CAR are as follows:

- Commercial Enterprises by Local Governments
- Delegation of Power/Duty
- Disclosure of Interest
- Disposal of Property
- Elections
- Finance
- Integrated Planning & Reporting
- Local Government Employees
- Official Conduct
- Optional Questions
- Tenders for Providing Goods & Services

The Shire's Governance Team, assisted by Paxon, was responsible for the coordination and consolidation of CAR responses. Paxon supported the Governance Team to send out a request for responses to all responsible officers. Responses were received via email and consolidated by the Governance Team. Each responsible officer provided an update of their compliance obligation status including any relevant comments for each CAR question. Supporting documentation and records for each CAR question was maintained by the Shire for any required verification and validation purposes.

1.2 Objective

The objective of this engagement was to review the process for completion of the CAR by management to provide factual responses and assess through discussion and testing compliance with specific sections of the Local Government Act 1995 (and supporting regulations).

1.3 Scope

The scope of this review included the following:

- Consideration of applicable local government legislation and regulations relating to the CAR
- Consideration of processes used to complete the CAR, and
- Limited risk-based sample testing across a selection of applicable CAR questions.

1.4 Risk

Non-compliance with specific sections of the Local Government Act 1995 and regulations.

2. EXECUTIVE SUMMARY

Paxon assessed the process for completion of the CAR by management to provide factual responses and assessed through discussion and testing compliance with specific sections of the Local Government Act 1995 (and supporting regulations).

Paxon reviewed the responses provided by the Shire to 94 CAR questions for 2024. A summary of the responses and our proposed amendments are as follows:

Shire's response (as of 6 December 2024)	Total number of CAR questions	Outcome based on Paxon's review	Paxon's Recommendation to amend CAR response
Yes (Compliant)	61	All 64 CAR questions are compliant	-
No (Not Compliant)	2	Partially compliant due to exceptions identified for 2 CAR questions	Recommendation 5.1
Yes and N/A	3	All 3 CAR questions are compliant	Recommendation 5.2
N/A (Not Applicable)	28	All 28 CAR questions are not applicable	-
Total:	94		

Partial Non-Compliance to CAR requirements

The Shire's responses indicated non-compliance to two questions relating to Tenders for Providing Goods & Services:

- Tenders for Providing Goods & Services Question 1 – F&G Reg 11A(1) & (3) of the Local Government Act, relating to compliance with the Shire's internal purchasing policy requirements
- Tenders for Providing Goods & Services Question 3 – F&G Regs 11(1), 12(2), 13, & 14(1), (3), and (4), relating to publicly invited tenders

There were instances of non-compliance which were related to insufficient number of quotes sought, relevant delegate's approval not obtained, and one tender not advertised via public notice. The Shire self-identified these instances based on weekly checks performed internally by the procurement team on a sample basis. We also determined that the Shire investigated these instances further to understand the root causes and took reasonable corrective actions to prevent future occurrences.

Paxon recommends that the responses to these two questions be updated to reflect partial compliance as 'No' would indicate full non-compliance to the CAR requirements. In most cases the requirements were compliant with CAR requirements.

Refer to section 5.1 for details.

Compliance to CAR requirements

Paxon identified three items where a range of responses were provided by various responsible owners across the Shire, some of which were 'Yes' and some 'N/A'. Based on our review performed the CAR response to these were applicable to the Shire and have been complied with.

Refer to section 5.2 for details.

Other Points of Note (without impact to CAR 2024 response)

Based on sample testing we identified the following:

- The Shire's Employee Code of Conduct published on its website at the time of our review in December 2024 was not the most updated version approved in October 2024. Arising from our review the Shire updated the version available on its website to the most recent one.

- Of the five primary returns sample tested, we identified one employee primary return where the year recorded on the form completed was 2023 instead of 2024. However all compliance requirements for the CAR questions were still met despite the error made. We also sample tested seven annual returns and did not find any issues.

As both the above matters were rectified by management during the course of our review and updated within the draft CAR responses provided to Paxon, no further amendments are required to these.

Additionally we identified through our review that the Shire does not have a process to individually advise officers of their delegations where these have been sub-delegated by the CEO, though they are documented within the Shire's Delegations Register. This relates to CAR Question 9 – s5.44(2) which requires all delegations by the CEO to any employee to be provided in writing. The Shire's Delegations Register satisfies the requirement of this CAR question, hence no amendment to the draft response is required. However, a recommendation has been raised within the Regulation 17 report that Paxon performed for the to develop a process to inform all individual officers of their specific delegations.

The findings of the review were discussed with the key stakeholders and a draft report was issued. Relevant management were given the opportunity to review the draft report and provide their comments. Prior to the final report being submitted to the Shire's ARC for noting.

We would like to thank all officers that have facilitated the performance of this review.

3. METHODOLOGY

Our methodology for this review comprised of the following steps:

- Conducted an initial meeting with management to obtain an understanding of processes and potential issues;
- Developed overview documentation of the processes including key controls by discussions with staff responding to assigned CAR questions, observation and review of the processes, relevant policies, procedures and supporting documentation;
- Researched the issues, weaknesses and potential improvements noted from our discussions and reviewed the existing processes and identified key controls;
- Reviewed evidence or tested a sample of draft responses to the CAR to supporting information;
- Discussed any responses highlighted through testing that were not supported by evidence with the response owner and provided a revised response to Governance for inclusion within the final CAR reported to Committee;
- Prepared a draft report of process findings and recommendations and issued it to management for close out discussion; and
- Provided ongoing communication with the business in status update regarding how the engagement was tracking, outstanding requests, test results and preliminary findings as they were identified through the course of our review.

4. INHERENT LIMITATIONS

Due to the inherent limitations in any internal control structure, it is possible errors or irregularities may occur and not be detected. Further, the internal control structure, within which the control procedures that have been reviewed operate, has not been reviewed in its entirety and therefore no opinion is expressed as to the effectiveness of the greater internal control structure.

It should also be noted our review was not designed to detect all weaknesses in control procedures as it was not performed continuously throughout the period subject to review.

The review conclusion and any opinion expressed in this report have been formed on the above basis.

5. DETAILED FINDINGS

5.1 Partial Non-compliance to CAR questions – Tenders for Providing Goods and Services

Paxon sent a request for CAR responses to the Shire’s responsible officers on 12 November 2024 via email. Responses from responsible officers were received by the Shire’s Governance Team via email, consolidated and provided to Paxon on 22 November 2024. An updated response was provided to Paxon by Governance on 6 December 2024. Paxon reviewed all 94 CAR responses provided by the Shire and performed testing where required.

Of the 94 CAR questions for 2024, the Shire provided a response of ‘No’ to two CAR questions indicating non-compliance to legislative requirements. These are as follows:

CAR Area	CAR Question (summarised)	Responsible Officer(s)	Shire’s Response	Outcome and Recommendation based on Paxon’s review
Tenders for Providing Goods and Services	CAR Question 1: Compliance with the Shire’s purchasing policy requirements – F&G Reg 11A(1) & (3)	Finance	No	Partially Compliant
Tenders for Providing Goods and Services	CAR Question 3: Compliance with requirements for publicly invited tenders – F&G Regs 11(1), 12(2), 13, & 14(1), (3), and (4)	Governance	No (SCS)	Partially Compliant

Paxon reviewed the CAR responses provided by the Shire. The instances of non-compliance were identified through internal weekly monitoring checks in place for procurement and tenders. Details of the exceptions noted are as follows:

- Tenders for Providing Goods and Services CAR Question 1 - There were instances where an insufficient number of quotes were sought without the appropriate Director’s approval. Based on the Shire’s weekly procurement checks performed, Paxon identified a total of six instances of non-compliance for this item in 2024. However the Shire informed Paxon that it commenced performing weekly checks during the year 2024 hence there may have been further instances of a similar nature.
- Tenders for Providing Goods and Services CAR Question 3 - One instance of non-compliance for a tender relating to the Bilgoman Aquatic Centre. This tender was not advertised via State-wide public notice which was identified by the Shire and confirmed by Paxon.

For the exceptions identified, the root causes were investigated by the Shire and it is reasonable that no corrective actions were possible to address the instances of non-compliance which had already occurred in 2024. Action was taken to address the necessary processes to prevent future non-compliances. As the non-compliances identified only related to some tenders and not all, Paxon has determined that the Shire partially complies with the requirements of the CAR questions.

We have also obtained a good understanding of the Shire’s procurement processes and checks in place to monitor non-compliances and exceptions through the Regulation 17 that was being performed concurrently with the CAR work. The following processes and controls were noted:

- The Shire has a Procurement Policy and Procedure in place, both of which were recently reviewed in 2024. These documents were detailed and provide adequate guidance on the legislative and internal requirements to staff.
- The Shire has a process to include the advice and guidance from legal as required to support procurement processes.
- The Shire has good recordkeeping practices including various templates to support procurement processes and compliance requirements.
- A contracts register is in place to track and monitor ongoing contracts and issues.

- The Shire performs weekly checks to ascertain compliance to legislative requirements and adherence to internal procurement requirements. Status and trends of non-compliances are identified as part of this process.

Recommendation

- 5.1 For the two CAR questions an amended response should be provided to indicate partially compliant.

Management Comments:

Accepted.

Action Owner:

Manager Finance and Governance

Target Completion Date:

31 March 2025

5.2 Consolidate CAR responses for compliant items

Of the 94 CAR questions for 2024, the Shire provided a varied response of 'Yes' and 'N/A' to three CAR questions. These are as follows:

CAR Area	CAR Question (summarised)	Responsible Officer(s)	Shire's Response	Outcome and Recommendation based on Paxon's review
Delegation of Power/ Duty	CAR Question 13: Keeping a written record of all delegations exercised – s5.46(3)	ELT	Yes (DCS) Yes (DIS) N/A (SCS) Yes (SS)	Yes – Compliant
Disposal of Property	CAR Question 1: Disposal of property in accordance with s3.58(3) of the Local Government Act 1995	ELT	N/A (DCS) Yes (DIS) N/A (SCS) N/A (SS)	Yes - Compliant
Disposal of Property	CAR Question 2: Providing details of all disposed properties in accordance with s3.58(4) of the Local Government Act 1995	ELT	N/A (DCS) Yes (DIS) N/A (SCS) N/A (SS)	Yes – Compliant

Paxon reviewed the responses provided by the Shire and identified that individual responses were provided to the three questions relating to specific areas of the business.

- Delegation of Power/ Duty CAR Question 13 – Overall the Shire has delegations in place and a written record of those exercised were maintained for 2024. It was noted that delegations were not exercised within Strategic and Community Services (SCS)
- Disposal of Property CAR Questions 1 and 2 – Overall the Shire has complied with requirements under the Act s3.58(3) and s.3.58(4) for the disposal of property. It was noted that only one disposal occurred within the Shire's Infrastructure Services relating to a Kiosk at Lake Leschenaultia and that the relevant details were recorded.

Based on our work performed, the requirements of the above three CAR questions were applicable to the Shire during 2024 and the Shire was compliant with requirements.

Recommendation

5.2 For the three CAR questions an amended response should be provided to indicate compliance.

Management Comments:

Accepted. It should be noted that the Shire's responses (i.e., by directorate) to Paxon were for internal tracking purposes only. The intention was to always provide a consolidated response in the CAR to indicate compliance.

Action Owner:

Manager Finance and Governance

Target Completion Date:

31 March 2025

PAXON

SYDNEY

Level 15, 56 Pitt Street, Sydney NSW 2000
T: +61 2 8379 6144

PERTH

Level 5, 160 St Georges Terrace, Perth WA 6000
Telephone: +61 8 9476 3144

MELBOURNE

Level 27, 101 Collins Street, Melbourne VIC 3000
Telephone: +61 3 9111 0046

ADELAIDE

Level 30, 91 King William Street, Adelaide SA 5000
Telephone: +61 8 8113 5739

BRISBANE

Level 19, 10 Eagle Street, Brisbane QLD 4000
Telephone: +61 7

paxongroup.com.au | mail@paxongroup.com.au

10.0 REPORTS OF EMPLOYEES

10.1 2025 Annual Electors' Meeting Decisions

File Code	GV.MTG 2.2025
Author	Garry Bird, Director Corporate Services
Senior Employee	Jason Whiteaker, Chief Executive Officer
Disclosure of Any Interest	Nil
Attachments	Nil

PURPOSE

That Council considers the decisions made at the 2025 electors' meeting and endorses recommended actions in relation to the motions adopted at the meeting.

BACKGROUND

At the electors' meeting held Tuesday 4 February 2025, electors considered 23 motions, all of which were carried.

This report provides a response to the 23 carried motions (decisions) including, where appropriate, a process for further consideration by Council.

In accordance with section 5.33 of the *Local Government Act 1995* Council must consider all decisions made at an electors' meeting at the next ordinary Council meeting or if that is not practicable, at the following ordinary meeting or a special meeting called for the express purpose of considering the electors' meeting decisions.

STATUTORY / LEGAL IMPLICATIONS

Section 5.33 includes provisions for decisions made at an electors' meeting as follows:

- (1) *All decisions made at an electors' meeting are to be considered at the next ordinary council meeting or, if that is not practicable —*
 - (a) *at the first ordinary council meeting after that meeting; or*
 - (b) *at a special meeting called for that purpose,**whichever happens first.*
- (2) *If at a meeting of the council a local government makes a decision in response to a decision made at an electors' meeting, the reasons for the decision are to be recorded in the minutes of the council meeting.*

It is relevant to note that Council is not bound by the decisions made at an electors' meeting. Council is required to consider the decisions, but is not obliged to undertake any actions in response to any of the AEM decisions. For example, Council might choose to note the decision, but take no further action.

However, should Council make a decision in response to an electors' meeting decision, it must record the reasons for the Council decision in the minutes of the Council meeting.

POLICY IMPLICATIONS

There may be policy implications associated with the electors' meeting decisions. These can be further considered should Council resolve to further consider an electors' meeting decision in a future report.

FINANCIAL IMPLICATIONS

There are resource and cost implications associated with implementing a number of the electors' meeting decisions. Should Council resolve to pursue an electors' meeting decision that has a budget and/or resource implications, then that matter should be referred to Council's Council Plan and Budget workshops so that it can be considered alongside other priorities and available resources.

For some of the decisions, additional officer time may be required to research the issue and prepare a detailed report for Council consideration.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Nil

RISK IMPLICATIONS

Risk: Financial, Reputation		
Likelihood	Consequence	Rating
Unlikely	Moderate	Moderate
Action / Strategy		
Should Council resolve to undertake actions in response to any of the electors' meeting decisions that commit staff or financial resources, it is recommended Council request officers prepare a detailed report for consideration at a future Council meeting to ensure Council is able to make an informed decision.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	✓
Social media post	✓
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	

EXTERNAL CONSULTATION

Nil

COMMENT

It is open to Council to decide how it chooses to respond to the decisions made at the electors' meeting.

Options include:

- That no further action be taken in response to the decision of the electors' meeting.

Reasons for this outcome may be that there is no provision for the proposed expenditure in the Long-Term Financial Plan; or because the decision is unlikely to be able to be implemented; or because the decision is outside of Council's powers (ultra vires).

- That the decision of the electors' meeting be referred to Council's Council Plan and Budget workshops.

If the decision has resourcing implications, these can be considered during these workshops. The purpose of these workshops is for Council to consider and prioritise what services, assets and projects it wishes to deliver in the medium term (4 years) and how they will be resourced. The outcome of the workshops is the adoption by Council of the Annual Budget, which gives effect to those priorities.

- That a further report on the decision of the electors' meeting be presented to a committee/Council meeting.

Referring the report to a future committee or Council meeting may provide an opportunity for Council to be further informed on the specifics of an electors' meeting decision.

To assist Council, advice and an officer recommendation has been provided in response to each of the decisions made at the electors' meeting.

Decision 1 Advocate for Review of Recreational Potential for Mundaring Weir

AEM1.02.25

Council prioritises its advocacy program for 2025-26 to include advocacy for a State funded, independent expert, review of the recreational potential for the Mundaring Weir and its catchment area.

Advice Director Strategic and Community Services

The Shire's Economic Development and Tourism Strategy 2023-2028 lists the following action. "Engage with Water Corporation WA to support eco visitation to the Mundaring Weir for low impact and water based leisure and recreational activities."

The AEM motion aligns with this action.

Council reviews and adopts priorities for lobbying and advocacy for a two-year period. The current lobbying and advocacy priorities are for the period 2023-2025, noting new and/or additional priorities can be added to the adopted list as Council considers appropriate (C9.08.23).

Recommendation

That Council notes decision AEM1.02.25 *Advocate for Review of Recreational Potential for Mundaring Weir* and includes advocacy for a State funded, independent expert, review of the recreational potential for the Mundaring Weir and its catchment area, in the Shire's lobbying and advocacy priorities for 2025/26.

Decision 2 Changes to the Town Planning Scheme

AEM2.02.25

That Council implements urgent changes to the Town Planning Scheme or amends the zoning table to allow the use of larger blocks for low intensity, short stay, camping / caravanning.

Advice - Director Statutory Services

The matter raised will be considered during the preparation of Local Planning Scheme No.5 and the Shire's new Local Planning Strategy.

However, it should be noted that as a result of recent changes made to the *Planning and Development (Local Planning Schemes) Regulations 2015*, new provisions relating to short term accommodation are being proposed as part of Amendment No.19 to LPS4.

Amendment No.19 to LPS4 is being publicly advertised by the Shire from 7 February until close of business on 21 March 2025. Details regarding which are currently available to view at the Shire's Administration Building and libraries, and on the Shire's website and Engage Mundaring website.

Recommendation

That Council notes decision AEM2.02.25 *Changes to the Town Planning Scheme* and affirms that changes to the Local Planning Scheme to allow the use of larger blocks for low intensity, short stay, camping / caravanning will be considered during the preparation of Local Planning Scheme No.5 and the Shire's new Local Planning Strategy.

Decision 3 Grounds Maintenance at Brown Park

AEM3.02.25

That the Shire of Mundaring Council conduct the following additional works to grounds at Brown Park to ensure high quality turf for competition cricket:

1. Topdressing to be done between footy and cricket seasons preferably (August/September).
2. Coring and dethatching renovations carried out in between sports seasons (August/September).
3. Increase fertility to ovals with correct macro and micronutrients.
4. Eradicate weeds.
5. Manage insects during spring and summer that damage the root system of the turf causing it to appear like suffering from dry patch; and

To present the attached maintenance program for consideration by the Shire Officers.

Advice - Director Infrastructure Services

The Shire is reviewing oval management techniques regularly. As part of the review process, all established turf management practices are assessed inclusive of irrigation operations, mowing operations, pest (insect/weed/disease) management, nutrition management, root zone soil profile and moisture management, turf renovation practices, top dressing practices along with surface playability.

We engage the services of sports turf consultants to assist with development of site specific maintenance plans. Maintenance plans are customised in response to individual site conditions to ensure outcomes are optimised in terms of cost and effectiveness.

Proposed upcoming works for Brown Park at this stage include;

- hollow tine coring
- top dressing;
- controlled release fertiliser application.

Sporting groups can arrange to meet the Shire's Co-ordinator Parks Services for further in depth discussion on the maintenance activities should they wish to do this.

Recommendation

That Council notes decision AEM3.02.05 *Grounds Maintenance at Brown Park* and take no further action, noting that renovation works are planned for the Brown Park ovals and requests the Chief Executive Officer organise consultation to occur with user groups regards these works.

Decision 4 Letters to West Australian Minister – Immediate Action on COVID 19

AEM4.02.25

From the Shire of Mundaring letters to West Australian ministers requesting Immediate Action on COVID-19.

Motion from the people of the Shire of Mundaring, if voted in at the Electors Meeting 2025 at the Shire of Mundaring, then presented towards the named below officials through the CEO of the Shire of Mundaring.

We, the electors of the Shire of Mundaring, request that the council instruct the CEO to write to the following:

The WA Premier

The WA Department of Health and

The WA Minister for Health

1. Acknowledgement of Exhibits and Findings:

The Shire of Mundaring Council acknowledges the findings outlined in the following exhibits, which are yet to be tested by an Australian laboratory under the same conditions as Dr. David Speicher' s report, as referenced in the Port Hedland motion.

These findings, which have been validated by laboratories globally, are as follows:

Exhibit 1: Dr. David Speicher' s Report

Exhibit 2: Letter from The Honourable Russell Broadbent MP, Federal Member for

Monash, dated 20 September 2024

Exhibit 3: Follow-up letter from The Honourable Russell Broadbent MP, dated 25 September 2024

Following the recent Dr Speicher report indicating the contamination of COVID19 vaccination vials. Most recent reports indicate that 75 individuals have tested positive for synthetic DNA contamination in COVID-19 vaccines. This finding raises significant concerns about the safety and integrity of these vaccines.

If the contamination reports turn out to be true, these findings bear a significant impact on the incidence of cancer and reduce the individuals' ability to fight cancer naturally with killer T cells. We find it very concerning that when we go to the AIHW website for the latest incidences of cancer, there are only predictions and no real figures since 2020.

In light of these concerns, we, the people of Mundaring Council, are very concerned that the TGA, our health ministers and powers in Parliament are touting 'misinformation' without an independent investigation.

1. To urge the immediate suspension of the use of all COVID-19 vaccines in Australia
2. To engage a body of qualified experts, including the Chief Health Officer and Gene Technology Technical Advisory Committee, to conduct a comprehensive science-based evaluation of emerging evidence regarding synthetic DNA contamination in the Pfizer and Moderna COVID-19 vaccines.
3. Request a letter from the above officials addressing these concerns. Insist that all new findings and decisions be communicated openly to the Shire of Mundaring for public communication.
4. To investigate excess deaths and hospitalisations in Western Australia following vaccine rollouts, specifically
 - 4.1 Prior to the reopening of state borders, and
 - 4.2 Over the long term.
5. To express concerns about potential failings in the Therapeutic Goods Administration (TGA) testing protocols, specifically their inability to detect synthetic DNA contamination in the Pfizer and Moderna vaccines

Attachments:

Exhibit 1: Dr. David Speicher' s Report

Exhibit 2: Letter from The Honourable Russell Broadbent MP (20 September 2024)

Exhibit 3: Follow-up Letter from The Honourable Russell Broadbent MP (25 September 2024)

[Note: Attachments have been previously sent to the Shire of Mundaring by the Council of Port Hedland and local residents of the Shire of Mundaring

Advice - Chief Executive Officer

The actions described in this motion would be considered a lobbying and advocacy activity of the Shire and is not included in the adopted Advocacy Priorities 2023-2025. These priorities are due to be reviewed during the 2025-2026 year for the next two-year period and it would be open to Council to include the requested actions in the strategy as part of this review.

Council has previously considered similar lobbying and advocacy activities regarding the Covid-19 vaccination program and resolved to take no further action.

Recommendation

That Council notes decision AEM4.02.05 *Letters to West Australian Minister – Immediate Action on COVID 19* and take no further action.

Decision 5 Royal Commission into COVID 19

AEM5.02.25

From the Shire of Mundaring letters requesting a Royal Commission into COVID-19. We, the electors of the Shire of Mundaring, request that the council instruct the CEO to write to the following:

- His Excellency the Honourable Governor of Western Australia, Chris Dawson
- His Excellency the Honourable Governor-General of Australia, Sam Mostyn
- The Commonwealth Department of Health and Aged Care
- The Prime Minister
- Opposition Leader Peter Dutton

In light of ongoing concerns regarding COVID-19, the people of the Shire of Mundaring Council express significant apprehension about the management of health measures by the Therapeutic Goods Administration (TGA), health ministers, and relevant parliamentary authorities. We are deeply concerned that these measures may have caused more harm than protection to the public. We request that the Shire advocates for the launch of a Royal commission into all operations of COVID19.

eir rollout in Australia, with particular attention to any redacted sections. These documents should be made publicly available.

Request for Commission Documents:

The Shire of Mundaring requests regular updates on the progress of this investigation and any potential Royal Commission. We also request that any information suitable for public release be shared with the Shire.

We request the Royal Commission also examine the following:

A) To engage a body of qualified experts, including the Chief Health Officer and Gene Technology Technical Advisory Committee, to conduct a comprehensive science-based evaluation of emerging evidence regarding synthetic DNA contamination in ALL COVID-19 vaccines.

B) Review the policies, systems, and communication strategies employed during the pandemic at the federal, state, and local levels, and propose amendments to relevant acts and policies.

C) Identify lessons learned to improve future public health responses and disaster preparedness.

D) Reopen claims for COVID-19 vaccination injuries, including those closed in 2024.

E) Establish compensation and provide free medical support for all individuals affected by COVID-19 vaccination injuries.

F) Investigate the responsibility of the TGA, Federal and State governments, and vaccine manufacturers in the COVID-19 vaccine rollout.

G) Examine the clinical trial data for Pfizer, Moderna, and AstraZeneca vaccines prior to their rollout in Australia, with particular attention to any redacted sections.

These documents should be made publicly available. Request for Commission

Documents:

The Shire of Mundaring requests regular updates on the progress of this investigation and any potential Royal Commission. We also request that any information suitable for public release be shared with the Shire

Advice – Chief Executive Officer

The actions described in this motion would be considered a lobbying and advocacy activity of the Shire and is not included in the adopted Advocacy Priorities 2025-2025. These priorities are due to be reviewed during the 2025-2026 year for the next two-year period and it would be open to Council to include the requested actions in the strategy as part of this review.

Council has previously considered similar lobbying and advocacy activities regarding the Covid-19 vaccination program and resolved to take no further action.

Recommendation

That Council notes decision AEM5.02.05 *Royal Commission into COVID 19* and take no further action.

Decision 6 Letters to Federal Ministers – Immediate action on COVID 19

AEM6.02.25

From the Shire of Mundaring a letter to Federal ministers requesting Immediate Action on COVID19.

We the electors of the Shire of Mundaring, request that the council instruct the CEO to write to the following:

- The Prime Minister
- The Commonwealth Minister for Health and Aged Care
- The Commonwealth Department of Health and Aged Care
- The Chief Health Officer
- The Commonwealth Health Secretary

1. Acknowledgement of Exhibits and Findings:

The Shire of Mundaring Council acknowledges the findings outlined in the following exhibits, which should have been tested by an Australian laboratory under the same conditions as Dr. David Speicher' s report, as referenced in the Port Hedland motion.

These findings, which have been validated by laboratories globally, are as follows:

- Exhibit 1: Dr. David Speicher's Report
- Exhibit 2: Letter from The Honourable Russell Broadbent MP, Federal Member for Monash, dated 20 September 2024
- Exhibit 3: Follow-up letter from The Honourable Russell Broadbent MP, dated 25 September 2024

2. Correspondence and Action Requests:

1. To engage a body of qualified experts, including the Chief Health Officer and Gene Technology Technical Advisory Committee, to conduct a comprehensive science-based evaluation of emerging evidence regarding synthetic DNA contamination in the Pfizer and Moderna COVID-19 vaccines.
2. To investigate excess deaths and hospitalisations in Western Australia following vaccine rollouts, specifically:
 - 2.1 Prior to the reopening of Commonwealth of Australia borders, and
 - 2.2 Over the long term.
3. Request a letter from the Prime Minister and the above officials addressing these concerns. Insist that all new findings and decisions be communicated openly to the Shire of Mundaring for public communication.
4. To express concerns about potential failings in the Therapeutic Goods Administration (TGA) testing protocols, specifically their inability to detect synthetic DNA contamination in the Pfizer and Moderna vaccines
5. Send letters similar to Exhibits 1 and 2, endorsing the letters from the Honourable Russel Broadbent MP dated 20 and 25 September 2024.

Attachments:

- Exhibit 1: Dr. David Speicher' s Report
- Exhibit 2: Letter from The Honourable Russell Broadbent MP (20 September

2024)

- Exhibit 3: Follow-up Letter from The Honourable Russell Broadbent MP (25 September 2024)

[Note; Attachments have been previously sent to the Shire of Mundaring by the Council of Port Hedland and local residents of the Shire of Mundaring.]

Advice – Chief Executive Officer

The actions described in this motion would be considered a lobbying and advocacy activity of the Shire and is not included in the adopted Advocacy Priorities 2025-2025. These priorities are due to be reviewed during the 2025-2026 year for the next two-year period and it would be open to Council to include the requested actions in the strategy as part of this review.

Council has previously considered similar lobbying and advocacy activities regarding the Covid-19 vaccination program and resolved to take no further action.

Recommendation

That Council notes decision AEM6.02.05 *Letters to Federal Ministers – Immediate action on COVID 19* and take no further action.

Decision 7 Sewerage upgrade at the Glen Forrest Volunteer Bushfire Brigade

AEM7.02.25

That Council allocate urgent funding for sewerage upgrade at the Glen Forrest Volunteer Bushfire Brigade. (In the vicinity of \$30-40K).

Advice – Director Statutory Services

The existing effluent disposal which was approved by the Department of Health is currently being serviced on a quarterly basis by a licenced contractor. The Shire was aware of leaking accruing when the holding tanks were full, however this is being mitigated by regularly servicing.

Previous arrangement was as required basis which did cause an inconvenience. It appears the current arrangement is now working well. The servicing costs are \$4,400 a year.

A Secondary Treatment System (STS) might be an option, considering the wetland surrounding the area. The irrigation area would need to be placed along the northern boundary of the premises. Please note that an STS requires regular servicing, and there will be ongoing costs. The new system may also require approval from the Department of Health. The Shire's Health Services can assist and provide advice if a new effluent disposal system is proposed.

Conversations with Shire officers and the brigade is currently underway about a station rebuild and options to further improve the effluent system in conjunction with a new build.

Recommendation

That Council notes decision AEM7.02.05 *Sewerage upgrade at the Glen Forrest Volunteer Bushfire Brigade* and take no further action as current actions have addressed effluent disposal.

Decision 8 Feasibility study for station replacement or expansion for the Glen Forrest Volunteer Bushfire Brigade

AEM8.02.25

That Council allocate urgent funding for a feasibility study for station replacement or expansion for the Glen Forrest Volunteer Bushfire Brigade. (In the vicinity of \$60K).

Advice - Director – Infrastructure Services

Initial work carried out by the BFAC committee, along with a representative of the committee, has resulted in the development of a Volunteer Bush Fire Brigade Capital Works Program. This program, which is in its early stages and which will develop over time, identifies priority stations and the necessary work required to bring them up to a more contemporary fit for purpose standard. As part of this process, the Shire administration will be consulting the brigade on viable upgrade or replacement options, including the potential to relocate the station should wastewater treatment and space constraints be too difficult to overcome.

Recommendation

That Council notes decision AEM8.02.25 *Feasibility study for station replacement or expansion for the Glen Forrest Volunteer Bushfire Brigade* and take no further action, as improvement works to Volunteer Brigades will be addressed through the Bushfire Advisory Committee.

Decision 9 Install an LED notice board at the Shire’s Administration Building

AEM9.02.25

That the Shire of Mundaring (SoM) invest in and install an LED notice board on their verge, positioned similarly to the existing Hills Fresh LED notice board.

Advice - Director Infrastructure Services

The placement of a sign at the Administration Centre towards the roadway has been investigated previously. Given the significant amount of messaging put onto the LED information boards means this is not ideal for passing motorists to take in the whole contents of the messaging. The location suggested is at a busy and awkward four way intersection where having drivers distracted by a sign with a lot of information to read is likely to lead to an increase of traffic crashes. A digital messaging board in the reception foyer is available to provide important information to visitors of the Administration Centre. Important messaging placed on roadsides is typically short and static such as the use of Variable Message Board (VMB) trailers.

It is also noted that a under Main Roads Policies a sign close to the road reserve of Great Eastern Highway cannot have an illumination level above 300cd/per square metre and must not flash, pulse or chase, meaning a VMB is more suitable and can be used when an important message is required to be conveyed.

Recommendation

That Council notes decision AEM9.02.05 *Install an LED notice board at the Shire’s Administration Building* and take no further action.

Decision 10 Develop a comprehensive Traffic Master Plan for the Mundaring Shopping Precinct and surrounds

AEM10.02.25

That the Shire of Mundaring develop a comprehensive traffic master plan for the Mundaring Shopping Precinct and its immediate surroundings, with the goal of improving and preserving safety for all users.

Advice – Director Infrastructure Services

The Mundaring Town Initiative Masterplan and Mundaring Activity Centre Plan were developed and endorsed by Council in 2017 and 2018 which sets out various planning oversights and objectives including traffic and pedestrian movement.

Various traffic management upgrades and concept planning since these plans were endorsed have been undertaken taking these objectives into account.

Detailed concepts for road enhancements on the southside of the Highway will be presented to Council in coming months for adoption.

Further traffic management studies and concepts will be ongoing and occur as part of the Mundaring Cultural Precinct improvements and timed to match proposed staged works.

As commercial developments occur on the north side traffic and pedestrian improvements will be progressed in discussions and conditions of developments.

A comprehensive traffic masterplan for the Mundaring townsite is therefore not required.

Recommendation

That Council notes decision AEM10.02.05 *Develop a comprehensive Traffic Master Plan for the Mundaring Shopping Precinct surrounds* and take no further action given ongoing works to improve traffic around the shopping precinct and surrounding Mundaring Town Centre.

Decision 11 Allocate more Budget to Landcare

AEM11.02.25

That Council again consider allocating 2% of the 2025/26 Annual Budget for Landcare.

Advice – Director Statutory Services

The Annual budget dedicated to Landcare is currently \$412,000 per annum, which is 0.8% of the Shire's total operating budget (excluding depreciation).

The Shire would have to allocate a further \$627,000 per annum for Landcare to reach 2% of the Shire's total operating budget. This additional allocation would be the equivalent of a 1.85% rate increase.

It should also be noted that Shire also budgets \$566,000 per annum towards environmental sustainability programs and services, which is the equivalent of 1% of the Shire's total operating budget.

Recommendation

That Council notes decision AEM11.02.05 *Allocate more Budget to Landcare* and list for consideration additional funding for Landcare in the 2025/26 budget deliberations in the context of all other budget matters.

Decision 12 That Australia Day Citizenship Ceremonies and the Community Awards are held at an outdoor venue**AEM12.02.25**

That Council consider presenting the Australia Day Citizenship Ceremonies and the community awards at an outdoor venue accessible to all the community.

Advice – Director Strategic & Community Services

It would be open to Council to consider this, however a review by Council in 2024 provided that there was no appetite at this time to consider significant changes on how the Australia Day Ceremony and Australia Day Citizenship Awards are conducted.

Recommendation

That Council notes decision AEM1.02.25 *Changes to Australia Day Citizenship Ceremonies and Awards* and take no further action.

Decision 13 Create an Environment Management Plan for William Adams Park, Jarrah Creek, Dam, and Lake**AEM13.02.25**

As no Environment Management Plan exists for William Adams Park, Jarrah Creek, Dam, and Lake, that the Shire of Mundaring develops such a plan, in consultation with Jane Brook Catchment Group and Friends of Jarrah Creek, and once adopted by Council, makes a copy of such plan available to Stoneville Parkerville Progress Association and Jane Brook Catchment Group.

Advice - Director Statutory Services

The Shire has an established overarching management program in place to effectively manage the park and natural areas for William Adams Park, Jarrah Creek, Dam, and Lake, as well as many others within the Shire of Mundaring boundary.

In terms of maintaining a level of communication and engagement with 'Friends of' and 'Catchment Groups', the Shire has a dedicated Community Landcare Officer to provide advice and level of assistance as required.

Shire operational staff have also been involved assisting with management by stopping neighbours pumping water from the lake and addressing erosion at the outlet from the lake.

Shire staff will continue to be available to discuss management of William Adams Park, Jarrah Creek, Dam, and Lake with any interested members of the public.

Recommendation

That Council notes decision AEM13.02.05 *Create an Environment Management Plan for William Adams Park, Jarrah Creek, Dam, and Lake* and request the Chief Executive Officer liaise with interested parties to discuss environmental matters at this location to establish what operational plans or works need to be put in place.

Decision 14 Create an Environmental Management Plan for weed wattle**AEM14.02.25**

As an Environmental Management Control Plan does not exist for weed wattle removal on road verges under powerlines, that such a plan for weed wattle removal be formulated in consultation with Western Power and the Plan (once adopted by council) be then supplied to the Stoneville Parkerville Progress Association and Jane Brook Catchment Group as well.

Advice - Director Statutory Services

Clearing of native vegetation is regulated under the Environmental Protection Act 1986 (EP Act). In order for Western Power to clear native vegetation, a clearing permit is typically required unless an exemption applies.

Western Power, as a utility provider, may need to obtain a Purpose Permit for clearing native vegetation when conducting activities like installing or maintaining power infrastructure. The application process involves submitting the appropriate form to the Department of Water and Environmental Regulation (DWER).

Clearing native vegetation without the appropriate permit is prohibited and can result in penalties. Therefore, it's essential for entities like Western Power to ensure they have the necessary permits before proceeding with any clearing activities, including 'weed wattle' as referred to in this motion.

Western Power operate under their own legislation and the Shire can't dictate what vegetation that will and won't remove as part of their works but will discuss environmental impacts when those works are known and will have adverse impacts.

The Shire has operational teams that treats priority weeds on verges and removal of weed wattle as part of co-ordinated verge works. Considerable weed control works and greater focus is on bush Reserves and detailed management plans are proposed for these consistent with priorities listed in the Local Biodiversity Strategy.

Recommendation

That Council notes decision AEM14.02.05 *Create an Environment Management Plan for weed wattle* and take no further action as actions are already undertaken with entities such as Western Power and the priorities for weed control and environmental plans are undertaken as outlined in the Local Biodiversity Strategy.

Decision 15 Restructures any future Bushfire Recovery Committees to be Community Driven

AEM15.02.25

That the Shire of Mundaring restructures any future Bushfire Recovery Committees to be Community Driven with the aid of additional Shire resources and other relevant agencies and that the threshold for automatic assistance and access to support services be lowered down to enable that support to be available for anyone impacted by a local Bushfire, regardless of the size (\$ values) of the incident.

Advice - Director Statutory Services

The current State Emergency Management Framework, considers known and emerging impacts across social, built, economic, and natural environments and emphasises the necessity of community representation in recovery efforts. The Shire has previously adopted this approach, being responsible for managing recovery as outlined in Section 5.3.2 of the State Emergency Management Plan.

It's important to recognise that each recovery process is unique, with needs varying based on the specific complexities of the situation, including the social dynamics and demographics of the affected communities. Community representation significantly influences the recovery approach. A recent example is the community-led recovery in the Kimberley following the devastating 2023 floods, which effectively addressed the vast area and numerous communities impacted.

Decisions regarding community-led recovery can be made during or after a disaster, as the extent of the impact becomes clearer, aiding in determining the most appropriate recovery strategy. Additionally, when a community-based recovery approach is adopted, it's essential to ensure that necessary support services are available to assist and sustain the recovery efforts. Without adequate support, community members involved in recovery may face mental and emotional challenges due to the demanding nature of recovery tasks. It's also important to note that certain thresholds are required to activate funding and essential services for recovery, which may limit the feasibility of a community-led approach in some situations.

A current review of the State Recovery Arrangements is being undertaken with the vision of recovery levels to assist in when state agencies become more involved or depending on the status of the disaster take the lead in the recovery coordination. Consultation on proposed amendments can be commented on by the community and will be open until 2 May 2025.

No additional action is required given;

- 1 The existing recovery arrangements, including community involvement through sub-committee groups. Community-led recovery will be considered based on the reasons and advice outlined in the advice and when necessary.
2. Community members and groups with interest can provide feedback on the proposed amendments provided by the State Emergency Management Committee (SEMC) and the Department of Fire and Emergency Services (DFES). Feedback and proposed amendments can be viewed/submitted by visiting the Engage Western Australia Emergency Management website at www.engagewaem.com.au/projects/recovery before 2 May 2025

Recommendation

That Council notes decision AEM15.02.25 *Restructures any future Bushfire Recovery Committees to be Community Driven* and take no further action.

Decision 16 Install LED Sign outside the Shire's Administration Building**AEM16.02.25**

That one of the LED signs currently in storage be installed in front of Mundaring Administration Centre.

Advice - Director Infrastructure Services

The placement of a sign at the Administration Centre towards the roadway has been investigated previously. Given the significant amount of messaging put onto the LED information boards means this is not ideal for passing motorists to take in the whole contents of the messaging. The location suggested is at a busy and awkward four way intersection where having drivers distracted by a sign with a lot of information to read is likely to lead to an increase of traffic crashes. A digital messaging board in the reception foyer is available to provide important information to visitors of the Administration Centre. Important messaging placed on roadsides is typically short and static such as the use of Variable Message Board (VMB) trailers.

It is also noted that a under Main Roads Policies a sign close to the road reserve of Great Eastern Highway cannot have an illumination level above 300cd/per square metre and must not flash, pulse or chase, meaning a VMB is more suitable and can be used when an important message is required to be conveyed.

Recommendation

That Council notes decision AEM16.02.05 *Install LED Sign outside the Shire's Administration Building* and take no further action.

Decision 17 Cover the Bilgoman Aquatic Centre**AEM17.02.25**

That Mundaring Council and Mundaring Councillors consider and implement the appropriate action to invest in covering the whole of Bilgoman aquatic centre pool area (not the grassed area) so that the aquatic centre can be used by residents, ratepayers and the community all year.

Advice - Director Strategic & Community Services

To consider enclosing the pool at Bilgoman Aquatic Centre would require a feasibility study be undertaken first instance to ascertain costs, merits and viability.

The Council plan 2024-2034 lists project "4.3.18 Undertake a feasibility and business case for new or improved aquatic facilities" as a priority project for future consideration.

Recommendation

That Council notes AEM17.02.25 *Cover the Bilgoman Aquatic Centre* and takes no further action, noting that a feasibility and business case for new or improved aquatic facilities is listed as a priority project for future consideration in the Council Plan 2024-2034.

Decision 18 Promote signage for the Mount Helena Aquatic Centre and Swim Club**AEM18.02.25**

That the Shire of Mundaring work with the Eastern Hills Senior High School to promote signage for the Mount Helena Aquatic Centre and for the Mount Helena Swim Club.

Advice - Director Strategic & Community Services

The Shire continues to work collaboratively with Eastern Hills Senior High School regarding the operations of the Mt Helena Aquatic Centre which the Shire has use of outside of school hours through a licensing agreement. The Shire is responsible for signage and promotion of the public use of the pool which includes signage, as well as newsletters, social media and print advertising and the Shire will continue to do this. The Shire also displays the Mt Helena Swimming Club's signage. Increased signage will be installed.

Recommendation

That Council notes AEM18.02.25 *Promote signage for the Mt Helena Aquatic Centre and swimming club*, noting that Shire of Mundaring will work with the Eastern Hills Senior High School to promote signage for the Mount Helena Aquatic Centre and for the Mount Helena Swim Club.

Decision 19 Provide financial support to heat and light Mount Helena Aquatic Centre**AEM19.02.25**

That the Shire of Mundaring provide financial support to heat and light the Mount Helena Aquatic Centre so the usage of the pool can be used more to support the Swim Club and community of workers.

Advice - Director Strategic & Community Services

As part of the 2023/24-2026/27 Corporate Business Plan Council considered the merit of increasing the Mt Helena Swimming Club's access to the Aquatic Centre from 6 months of the year to 12 months of year, at an estimated additional operating cost of \$110,000 per annum and a one off \$250,000 capital cost for lighting and heating. This was not supported by Council as it was not justified by cost/benefit.

The Council plan 2024-2034 lists project 4.3.18 Undertake a feasibility and business case for new or improved aquatic facilities" as a priority project for future consideration

Recommendation

That Council notes AEM19.02.25 *Heat and light Mt Helena Aquatic Centre* and takes no further action noting that a feasibility and business case for new or improved aquatic facilities is listed as a priority project for future consideration in the Council Plan 2024-2034.

Decision 20 Install Security Cameras at Elsie Austin Pavilion**AEM20.02.25**

That the Shire of Mundaring install security cameras outside Elsie Austin Pavilion and changerooms.

Advice – Director Infrastructure Services

The installation of security cameras at Elsie Austin pavilion and change rooms is already included as a requirement of the detailed design work currently underway.

Recommendation

That Council notes decision AEM20.02.25 *Install Security Cameras at Elsie Austin Pavilion* and supports the installation of security cameras at Elsie Austin pavilion and change rooms as part of the pavilion and change room redevelopment work.

Decision 21 Amend the Local Cat Law**AEM 21.02.25**

That the Shire of Mundaring amends the Local Cat Law, so that all cats are confined to the owner's property.

Advice - Director Corporate Services

Under the existing *Cat Act 2011* and *Cat Regulations 2012*, there is currently no provision to confine cats to individual properties or impose penalties for their presence on private or public land without consent. The Shire of Mundaring Keeping of Cats Local Law 2005 is used by the Shire to give effect to the provisions of the *Cat Act 2011* and is not able to contain provisions that are beyond the scope provided in the Act. If the Shire were to review the Local Law and propose penalties for offences not covered under the current legislation, the Joint Standing Committee on Delegated Legislation would likely reject it because it exceeds the scope of the legislation.

Notwithstanding the lack of legislative powers to significantly amend the Local Law, Council resolved at the 11 February Ordinary Council Meeting to refer potential amendments to the Local Law to the Governance Committee for further consideration.

Recommendation

That Council notes decision AEM21.02.25 *Amend the Cat Local Law* and takes no further action

Decision 22 Establish a Heritage Advisory Committee

AEM 22.02.25

That the Shire of Mundaring establish a voluntary Heritage Advisory Committee to provide dedicated, expert advice on heritage matters. This cost-effective committee will comprise individuals with relevant experience, knowledge, and passion for the Shire's history to ensure ongoing, proactive support for the preservation and promotion of our local heritage.

Advice – Director Statutory Services

This matter was considered by Council during the preparation of the Shire's Heritage Strategy.

The establishment of such a committee was not, and is still not, considered necessary due to the amount of heritage related matters the Shire currently deals with. Also, due to the Shire's Cultural Advisory Group (CAG) already consisting of local heritage group members who provide advice on heritage matters when necessary. The purpose of the CAG is to provide strategic advice to Council and be the community voice in matters related to arts, culture and heritage. The CAG also has the ability to form working groups as required. If a Shire project requires heritage advice a working group consisting of local heritage group representatives could be established.

If a development application or other proposal is received involving a heritage listed place then Shire Officers could refer the proposal to the applicable local heritage group(s) for comment or seek independent advice from a Heritage Consultant (as per action S.4 of the Shire's Heritage Strategy).

Recommendation

That Council notes decision AEM 22.02.25 *Establish a Heritage Advisory Committee* noting that no further action is to be taken regarding establishing a Heritage Advisory Committee.

Decision 23 Manage Vegetation at Mundaring Tennis Courts

AEM 23.02.25

To manage the vegetation overhanging the leased Mundaring tennis courts. Specifically to remove two small trees shedding gumnut branches and leaves onto the courts.

Advice - Director Infrastructure Services

The trees in question are on the Great Eastern Highway verge and removal of the entire two trees is not supported as apart from cost and the loss of visual and noise screening for tennis court users this is better managed by pruning back overhanging branches and sweeping off any windblown debris from courts prior to each use. Maintenance of courts is a condition of lease.

Recommendation

That Council notes decision AEM23.02. *Manage Vegetation at Mundaring Tennis Courts* and take no further action.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council:

1. Acknowledges the contributions made by electors who participated in the 2025 annual electors' meeting; and
2. In response to the decisions made at the 2025 annual electors' meeting resolves:

Decision 1 Advocate for Review of Recreational Potential for Mundaring Weir

That Council notes decision AEM1.02.25 *Advocate for Review of Recreational Potential for Mundaring Weir* and includes advocacy for a State funded, independent expert, review of the recreational potential for the Mundaring Weir and its catchment area, in the Shire's lobbying and advocacy priorities for 2025/26.

Decision 2 Changes to the Town Planning Scheme

That Council notes decision AEM2.02.25 *Changes to the Town Planning Scheme* noting matter to be considered during the preparation of Local Planning Scheme No.5 and the Shire's new Local Planning Strategy.

Decision 3 Grounds Maintenance at Brown Park

That Council notes decision AEM3.02.05 *Grounds Maintenance at Brown Park* and take no further action, noting that renovation works are planned for the Brown Park ovals and requests the Chief Executive Officer organise consultation to occur with user groups regards these works.

Decision 4 Letters to West Australian Minister – Immediate action on COVID 19

That Council notes decision AEM4.02.05 *Letters to West Australian Minister – Immediate Action on COVID 19* and take no further action.

Decision 5 Royal Commission into COVID 19

That Council note decision AEM5.02.05 *Royal Commission into COVID 19* and take no further action.

Decision 6 Letters to Federal Ministers – Immediate action on COVID 19

That Council notes decision AEM6.02.05 *Letters to Federal Ministers – Immediate action on COVID 19* and take no further action.

Decision 7 Sewerage upgrade at the Glen Forrest Volunteer Bushfire Brigade

That Council notes decision AEM7.02.05 *Sewerage upgrade at the Glen Forrest Volunteer Bushfire Brigade* and take no further action as current actions have addressed effluent disposal.

Decision 8 Feasibility study for station replacement or expansion for the Glen Forrest Volunteer Bushfire Brigade

That Council notes decision AEM8.02.25 *Feasibility study for station replacement or expansion for the Glen Forrest Volunteer Bushfire Brigade* and take no further action, as improvement works to Volunteer Brigades will be addressed through the Bushfire Advisory Committee.

Decision 9 Install an LED notice board at the Shire's Administration Building

That Council notes decision AEM9.02.05 *Install an LED notice board at the Shire's Administration Building* and take no further action.

Decision 10 Develop a comprehensive traffic master plan for the Mundaring Shopping Precinct and surrounds

That Council notes decision AEM10.02.05 *Develop a comprehensive Traffic Master Plan for the Mundaring Shopping Precinct surrounds* and take no further action given ongoing works to improve traffic around the shopping precinct and surrounding Mundaring Town Centre.

Decision 11 Allocate more budget to Landcare

That Council notes decision AEM11.02.05 *Allocate more Budget to Landcare* and list for consideration additional funding for Landcare in the 2025/26 budget deliberations in the context of all other budget matters.

Decision 12 That Australia Day Citizenship Ceremonies and the Community Awards are held at an outdoor venue

That Council notes decision AEM1.02.25 *Changes to Australia Day Citizenship Ceremonies and Awards* and take no further action.

Decision 13 Create an Environment Management Plan for William Adams Park, Jarrah Creek, Dam, and Lake

That Council notes decision AEM13.02.05 *Create an Environment Management Plan for William Adams Park, Jarrah Creek, Dam, and Lake* and request the Chief Executive Officer liaise with interested parties to discuss environmental matters at this location to establish what operational plans or works need to be put in place.

Decision 14 Create an Environmental Management Plan for weed wattle

That Council notes decision AEM14.02.05 *Create an Environment Management Plan for weed wattle* and take no further action as actions are already undertaken with entities such as Western Power and the priorities for weed control and environmental plans are undertaken as outlined in the Local Biodiversity Strategy.

Decision 15 Restructures any future Bushfire Recovery Committees to be Community Driven

That Council notes decision AEM15.02.25 *Restructures any future Bushfire Recovery Committees to be Community Driven* and take no further action.

Decision 16 Install LED Sign outside the Shire's Administration Building

That Council notes decision AEM16.02.05 *Install LED Sign outside the Shire's Administration Building* and take no further action.

Decision 17 Cover the Bilgoman Aquatic Centre

That Council notes AEM17.02.25 *Cover the Bilgoman Aquatic Centre* and takes no further action, noting that a feasibility and business case for new or improved aquatic facilities is listed as a priority project for future consideration in the Council Plan 2024-2034.

Decision 18 Promote signage for the Mount Helena Aquatic Centre and Swim Club

That Council notes AEM18.02.25 *Promote signage for the Mt Helena Aquatic Centre and swimming club*, noting that Shire of Mundaring will work with the Eastern Hills Senior High School to promote signage for the Mount Helena Aquatic Centre and for the Mount Helena Swim Club.

Decision 19 Provide financial support to heat and light Mount Helena Aquatic Centre

That Council notes AEM19.02.25 *Heat and light Mt Helena Aquatic Centre* and takes no further action noting that a feasibility and business case for new or improved aquatic facilities is listed as a priority project for future consideration in the Council Plan 2024-2034.

Decision 20 Install Security Cameras at Elsie Austin Pavilion

That Council notes decision AEM20.02.25 *Install Security Cameras at Elsie Austin Pavilion* and supports the installation of security cameras at Elsie Austin pavilion and change rooms as part of the pavilion and change room redevelopment work.

Decision 21 Amend the Local Cat Law

That Council notes decision AEM21.02.25 *Amend the Cat Local Law* and that potential amendments to the Keeping of Cats Local Law 2005 will be considered by the Shire's Governance Committee.

Decision 22 Establish a Heritage Advisory Committee

That Council notes decision AEM 22.02.25 *Establish a Heritage Advisory Committee* noting that a Heritage Advisory Committee take no further action.

Decision 23 Manage Vegetation at Mundaring Tennis Courts

That Council notes decision AEM23.02. *Manage Vegetation at Mundaring Tennis Courts* and take no further action.

10.2 Draft Heritage List - Endorsement to Advertise

File Code	PS.HTG 5
Author	Andrew Bratley, Co-ordinator Strategic Planning
Senior Employee	Steve Trlin, Acting Director Statutory Services
Disclosure of Any Interest	Nil
Attachments	1. Draft Shire Heritage List ↓ 2. Current Shire Heritage List ↓

PURPOSE

To seek Council endorsement to advertise the draft (revised) Heritage List (HL), refer to **Attachment 1**. The proposed additional heritage places are shown as red text in the HL.

BACKGROUND

In October 2015, the *Planning and Development (Local Planning Schemes) Regulations 2015* (LPS Regulations) were Gazetted. In accordance with the LPS Regulations the Shire is required to establish and maintain a HL which will identify places of highest cultural significance which are afforded statutory protection.

In March 2016, Council resolved (**C10.03.16**) to adopt the Shire's original HL. This ensured significant local heritage sites continued to be recognised under the LPS Regulations.

The current version of the HL was adopted by Council in February 2021 (**C4.02.21**). Refer to **Attachment 2**.

In January 2025, Council resolved (**C6.01.25**) to adopt the revised Local Heritage Survey (LHS). Subsequently the Shire Officer has reviewed the current HL, and is proposing to elevate into the HL those places in the LHS which have a significance category of 1 or 2, being places considered to have the most cultural heritage significance.

STATUTORY / LEGAL IMPLICATIONS

Heritage Act 2018

In accordance with Part 8 of the *Heritage Act 2018*, amongst other things, a LHS assists local government with preparing and maintaining a HL.

The LHS itself has little specific planning or legal weight. In contrast, a HL is an instrument that is afforded powers under the *Planning and Development Act 2005* and therefore carries more statutory weight when determining planning outcomes for heritage places.

Planning and Development (Local Planning Schemes) Regulations 2015

In accordance with Schedule 2 Part 3 Clause 8 (Heritage List) of the LPS Regulations:

“(3) *The local government must not enter a place in, or remove a place from, the heritage list or modify the entry of a place in the heritage list unless the local government —*

- (a) *notifies in writing each owner and occupier of the place and provides each of them with a description of the place and the reasons for the proposed entry; and*

- (b) *invites each owner and occupier to make submissions on the proposal within a period specified in the notice; and*
 - (c) *carries out any other consultation the local government considers appropriate; and*
 - (d) *following any consultation and consideration of the submissions made on the proposal, resolves that the place be entered in the heritage list with or without modification, or that the place be removed from the heritage list.*
- (3A) *The period for making submissions specified in a notice under subclause (3)(b) must not be less than the period of 21 days after the day on which the notice is given under subclause (3)(a).*
- (4) *If the local government enters a place in the heritage list or modifies an entry of a place in the heritage list the local government must give notice of the entry or modification to —*
- (a) *the Heritage Council of Western Australia; and*
 - (b) *each owner and occupier of the place.”*

Local Planning Scheme No.4

It is an aim of LPS4, amongst others, to recognise and protect places of cultural heritage significance.

In accordance with LPS4, the Shire in considering an application for planning approval is to have due regard to the conservation of any place that has been entered in the State Heritage Register, or which is included in the Shire’s HL or LHS.

POLICY IMPLICATIONS

Heritage Requirements for Planning Proposals Local Planning Policy 3.3

Significance categories are used to reflect the value of each place in the Shire’s LHS. When assigning a management category a place’s heritage significance is considered as well as its rarity, condition and integrity.

Significance categories 1 and 2 have the following meanings under the Shire’s Heritage Requirements for Planning Proposals Local Planning Policy 3.3 (LPP3.3) and its LHS:

Significance Category	Description	Shire Expectations
1 - Exceptional significance (Heritage List and State Heritage Listed places)	Rare or outstanding example; essential to the heritage of the locality	The place should be retained and conserved. Any alterations or extensions should reinforce the significance of the place and be in accordance with a Conservation Plan if one is in place.
2 - Considerable significance (Heritage List places)	High degree of integrity/ authenticity; very important to the heritage of the locality	Conservation of the place is highly desirable. Any alterations or extensions should minimise impacts on the original site or building and reinforce the significance of the place.

The level of significance, is one of the matters that Shire Officers consider in making a decision on a planning proposal involving a local heritage place, and which applicants need to consider when preparing a planning proposal. Other matters include the requirements stipulated under LPP3.3 and State Planning Policy 3.5 - Historic Heritage Conservation (SPP3.5).

Community Engagement Policy

Having had regard to the “Community Engagement Policy” (CD-04), and the notification requirements under the LPS Regulations, the consultation approach to be undertaken (refer to the External Consultation section of this report) will ensure that those affected, and the community generally, are informed and consulted.

FINANCIAL IMPLICATIONS

If consent is given by Council to advertise, the costs to advertise the draft HL will be negligible.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 6 - Sustainable Places

Outcome 6.2 - Preserve and promote local heritage buildings and places of interest.

Heritage Strategy

The Shire’s Heritage Strategy includes, amongst others, the following recommended action:

“K.7 Heritage List

Update Heritage List following completion of LHS.

Outcome - Demonstrates the Shire’s commitment to the protection of the most significant places.”

SUSTAINABILITY IMPLICATIONS

Preserving cultural heritage and advocating for the protection of important local history is critical to sustaining the broader social identity of the Shire.

RISK IMPLICATIONS

Risk: Reputational – Consent not being given to advertise the draft HL resulting in the Shire not satisfying its statutory obligations under the LPS Regulations.		
Likelihood	Consequence	Rating
Unlikely	Moderate	Low
Action / Strategy		
The draft HL be made available for advertising so that community feedback can be invited, and so as to demonstrate the Shire’s commitment to the protection of the most significant places as per its Heritage Strategy.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	✓
Website article/ post	✓
Social media post	✓
Print article/ media release	
E-newsletter/ Community update	
Advertisement	✓
Nil	

EXTERNAL CONSULTATION

Should Council endorse the draft HL for advertising, in accordance with the LPS Regulations advertising will take place for 21 days and include notification:

- in the local newspaper;
- on the Shire's website, social media page and Engage Mundaring website;
- at the Shire's libraries and Administration centre; and
- being sent to the owners and occupiers of the properties which are proposed to be included in the HL, and the Mundaring and Hills Historical Society, Darlington History Group, Lost Mundaring and Surroundings, Midland and Districts Historical Society, and the Friends of the Chidlow WWII Army Camps.

In accordance with the LPS Regulations, following the advertising period and consideration of the submissions made on the proposal, Council is to then resolve whether the places are to be entered in the HL with or without modification, or whether any of the places be removed from the HL.

COMMENT

Including a place on the HL gives the place recognition and protection under LPS4. It requires the Shire to give due regard to the heritage significance of the listed place when determining a related development application. It also means that owners must submit development applications for proposals that would otherwise be exempt from the requirement for development approval under the deemed provisions.

Including a place on the HL may also assist in defending a subsequent appeal to the State Administrative Tribunal for a refused development application or a condition of approval imposed on heritage grounds.

The current HL contains 60 heritage places. The draft HL proposes an additional 14 places as a result of the recently adopted LHS, which identifies them as having a significance category 1 or 2 (refer to the Policy Implications section of this report for the category meanings). These being places considered to have the most cultural heritage significance.

The statement of significance and significance category for each place in the draft HL are consistent with the adopted LHS.

No places currently on the HL are proposed to be removed.

Considering the above, community input on the draft HL is essential, therefore, it is recommended that Council endorses the draft HL for the purpose of being advertised.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council:

1. Endorses the draft Heritage List, as shown in **Attachment 1**, for the purpose of advertising; and
2. In accordance with Schedule 2 Part 3 Clause 8 of the *Planning and Development (Local Planning Schemes) Regulations 2015*, advertises the draft Heritage List, as shown in **Attachment 1**, for 21 days, which includes notification:
 - a. in the local newspaper;
 - b. on the Shire's website, social media page and Engage Mundaring website;
 - c. at the Shire's libraries and Administration centre; and
 - d. being sent to the owners and occupiers of the nominated properties which are proposed to be included in the Heritage List, and the Mundaring and Hills Historical Society, Darlington History Group, Lost Mundaring and Surroundings, Midland and Districts Historical Society, and the Friends of the Chidlow WWII Army Camps.



HERITAGE LIST



1. Introduction

The rich history of the Shire of Mundaring is embedded in the fabric of the Shire's many heritage buildings and places. The Shire's vision is for these buildings and places to be protected, enhanced and celebrated. The Shire of Mundaring is committed to conserving and promoting its local heritage to ensure that its history is preserved for generations to come.

"Heritage supports urban and rural amenity by providing familiarity and the presence of landmarks, by underpinning our 'sense of place', and by enhancing the quality of our built environment generally."

(State Planning Policy 3.5 - Historic Heritage Conservation)

The heritage value of a place lies in its cultural heritage significance. This is defined in The Burra Charter (*The Australia Charter for Places of Cultural Significance 1999*) as 'the aesthetic, historic, scientific or social value for past, present or future generations'.

In accordance with the deemed provisions of the *Planning and Development (Local Planning Schemes) Regulations 2015*, the Shire is required to establish and maintain a heritage list to identify places that are of cultural heritage significance and worthy of built heritage conservation.

Including a place on the heritage list gives the place recognition and protection under the local planning scheme. It requires the Shire to give due regard to the heritage significance of the listed place when determining a related development application. Inclusion of a place does not limit the ability of a property owner to propose any works or other development. However, proposals that respect and retain the heritage values of the place are likely to be encouraged and may, where appropriate, be required.

The Shire's Heritage List was first adopted over 9 years ago. Up until recently a major review of the Shire's Heritage List had not been undertaken since its adoption.

The Shire has undertaken a review of its Heritage List as a result of a revised Local Heritage Survey being adopted by Council in January 2025, which includes places which need to be elevated into the Heritage List due to their cultural heritage significance.

Shire of Mundaring Heritage List (2025)



2. Methodology

The Heritage List contains places which have the highest cultural heritage significance and have been assigned a significance category 1 or 2 under the Shire's Local Heritage Survey.

The significance categories used in the Shire's Heritage List have the following meanings:

Significance Category	Description
1 - Exceptional significance (Heritage List and State Heritage Listed places)	Rare or outstanding example; essential to the heritage of the locality
2 - Considerable significance (Heritage List places)	High degree of integrity/ authenticity; very important to the heritage of the locality

The designated significance category for each of the local heritage places has been taken from the Shire's Local Heritage Survey.

A summary of the cultural heritage significance is included for each place on the Shire's Heritage List. However, full details of the cultural heritage significance for each place should be referred to in the place data sheets in the Shire's Local Heritage Survey or (where applicable) the State Heritage Register, also known as the Heritage Council of Western Australia's InHerit database.

In accordance with the *Planning and Development (Local Planning Schemes) Regulations 2015*, during the preparation of this Heritage List the Shire invited comments from the general public, and consulted with the owners and occupiers of the additional places proposed to be included. It considered any submissions received on the proposed listings.

The local heritage places are listed on the following pages in numerical order as per the Shire's Local Heritage Survey.



3. Heritage List

Draft

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
3	Eastern Hills Showcase	27 Hartung Street	Mundaring	2	The house/gallery at 27 Hartung Street has high social and aesthetic significance for the Mundaring township as an early example of a larger type weather-board residence of its period when similar large houses in the town were either stone or brick. Weather-boards were more commonly used for smaller cottages or outbuildings. Like 'Temuka' and 'Craigie House' this building is one of few remaining large timber houses of this calibre.	8524
7	Captain Scott's Cottage	2965 Jacoby Street	Mundaring	2	Captain Scott's cottage has <i>high social and aesthetic significance</i> as a well preserved and excellent example of a small 'workers' cottage. Its detailing and finish is possibly better than what was typical of its time and most of which has survived intact despite adaptation and modification over the years. As such, the cottage also demonstrates adaptive use as modifications have been made to suit changing needs and lifestyles.	8525

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
9	Faversham	2075 Jacoby Street	Mundaring	1	"Ballindown /Faversham" has <i>very high social and historic significance</i> for: <ul style="list-style-type: none"> • its associations with a prominent local and State recognised person in Alexander McCallum; • as a reminder of how the hills developed as a holiday destination for the wealthy; • as an example of a hills retreat built for the wealthy at the turn of the century and of which there are few remaining examples with such integrity (scarcity value); • as one of the most significant private houses built in Mundaring especially at that time; • and as an example of the adaptive use of large residences as convalescent homes which were formerly an important part of post hospital care; and more recently for bed and breakfast accommodation. 	4546
11	Temuka	7495 Great Eastern Highway	Mundaring	2	'Temuka' has <i>very high aesthetic, historic and social significance</i> for its townscape value, particularly in the surrounding context of several other large houses, and in its use of weatherboard on a substantial residence; for its associations with Luhrs and as an example of adaptive use during the life of the Mundaring township.	8527

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
13	George Ingram Residence	7405 Great Eastern Highway	Mundaring	2	"Ingram's" house at the corner of Great Eastern Highway and Stoneville Road has <i>very high aesthetic and social significance</i> for its street/town scape qualities, materials and character.	8529
15	Belair	7435 Great Eastern Highway	Mundaring	2	'Belair' has <i>high aesthetic, historic and social significance</i> for Mundaring because of its townscape value; its late <i>Federation</i> style and unusual use of brick and stone; and for its associations with the Luhrs family.	8530
18	Mundaring Hotel	3115 Cnr Jacoby and Nichol Streets	Mundaring	2	The Mundaring Hotel has <i>very high aesthetic, social and historic significance</i> for its two storey styling and landmark qualities; its associations with the old heart of Mundaring and prominent people involved with the development of the district.	1674

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
20	Mundaring Primary School	7225 Great Eastern Highway	Mundaring	2	The old Mundaring Primary School has <i>very high social, historic and aesthetic significance</i> on its site in the centre of the Mundaring townsite. <i>Historically and socially</i> , the building has served the community since 1908 and is one of the last remnants of original buildings in the town centre. Together with the adjacent War Memorial and former Post Office, they form an historic precinct which terminates the northern end of the important Nichol Street axis through the town centre. This also provides a landmark quality to its <i>aesthetic significance</i> as well as its weatherboard construction which is a reminder of the early timber milling industry in the district.	1682
21	Mundaring War Memorial and Gardens	Lot 153 Cnr Nichol Street and Great Eastern Highway	Mundaring	2	The Mundaring War Memorial site has <i>very high local social and historic significance</i> because of its recognition of local people who fought in two world wars, continuing associations with the RSL and past associations with earlier people in the district who contributed to its establishment. This significance continues today as the focus for commemorative activities in the community. The memorial also has <i>high aesthetic significance</i> as a local landmark and streetscape element in the civic heart of Mundaring.	8533

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
24	Masonic Lodge	2815 Jacoby Street	Mundaring	2	The Mundaring Masonic Lodge building has <i>high aesthetic and social significance</i> for the local community for the role Freemasonry played in the lives of the early community and the involvement of prominent people in the district. The building has aesthetic significance for its character in the townscape and the use of stone in a civic building.	8536
25	Church of Sacred Heart	18 Coolgardie Street	Mundaring	2	The Mundaring Sacred Heart Church and School buildings have <i>high social and aesthetic significance</i> for the Mundaring community.	1683
26	Anglican Church of the Epiphany	9 Mann Street	Mundaring	2	The Mundaring Anglican Church of the Epiphany has <i>very high social significance</i> for the people of the Mundaring district; <i>high aesthetic significance</i> for its simple elegant ecclesiastical design and its contribution to the Mundaring townscape; and <i>high historic significance</i> for the original associations of prominent community members who contributed to and patronised the church.	1678

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
28	Mundaring Weir Hotel	Lot 1037 Hall Road	Mundaring	1	The Mundaring Weir Hotel has <i>very high social, historic and aesthetic significance</i> , both locally and State, for its associations with the Weir's construction, operation and tourist activities together with its two storey architectural style of which there are only several examples in the Shire.	1675
29	Mundaring Weir Hall	Lot 7783 Weir Village Road	Mundaring	1	The Mundaring Weir Hall (former Mechanics Institute) has <i>very high social and historic significance</i> for Mundaring for its associations with the early community supporting the Weir, pumping stations, forestry and agricultural industry of the area.	1676
30	Mundaring Cemetery	1 Yarri Grove	Mundaring	2	The Mundaring Cemetery has <i>high social significance</i> to the community as the burial place of many local residents who lived in the district from the early part of this century. Previously, families travelled to Midland and Guildford to conduct their funerals.	8537
31	Mundaring Weir and Gardens	Lot 340 and 341 Mundaring Weir Road	Mundaring	2	The Mundaring/Goldfields Weir and gardens has <i>very high significance</i> Nationally, to the State of WA and to the Shire of Mundaring for <i>social, historic and scientific</i> reasons because of importance to the State, gold mining and agricultural industry and the magnitude of its engineering achievement.	8538

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
32	O'Connor Museum and No.1 Pump	Lot 340 Mundaring Weir Road	Mundaring	1	<p>The O'Connor Museum / No. 1 Pump Station is of <i>very high social, historic, aesthetic and scientific significance</i>, not only for the Shire of Mundaring and the State of Western Australia, but the engineering significance is also of <i>National</i> importance. This statement of significance also needs to be read in conjunction with the Mundaring Weir site no. 31.</p> <p>The pump station has:</p> <ul style="list-style-type: none"> • Social significance for the impact the construction of the Goldfields Water Supply had on the Mundaring community at the time of its construction at the turn of the century, and for the continuing impact on the lifestyle of people out in the Goldfields and agricultural land in between. • Historic significance for the impact the project had on the development of Western Australia and its associations with prominent people of the time including C. Y. O'Connor and Sir John Forrest. • Aesthetic significance for its industrial architecture and landmark value. • Scientific significance for the magnitude of its engineering achievement. 	1677

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
34	Mundaring Youth Hostel	618 Mundaring Weir Road	Mundaring	2	The old Mundaring Weir Primary School and Headmaster's residence is of <i>very high social and historic significance</i> as one of few remaining school and quarters on a single site in the Shire, and because of its origins and associations with the Weir communities.	8540
35	Fred Jacoby Park Oak Tree	Lot 3040 Cnr Hampel Road and Mundaring Weir Road	Mundaring	2	The English Oak tree in Fred Jacoby Park has <i>very high aesthetic, historic and scientific significance</i> for the region and the Shire of Mundaring, for its rarity and associations with Jacoby and the early settlement of the district.	4373
36	Linton Residence	1445 Falls Road	Hovea	2	The former 'Linton' residence has <i>high aesthetic, historic and social significance</i> for its associations with prominent State artist and silversmith James W. R. Linton.	8542
37	Parkerville Store	2170 Seaborne Street	Parkerville	2	The Parkerville General Store has <i>high aesthetic significance</i> for its contribution to the townscape character of Parkerville. It also has <i>high social and historic significance</i> as probably the oldest surviving store in the Shire in continuous use, and for its role in, and services provided to the community.	8543

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
38	Parkerville Hotel	6 Owen Road	Parkerville	2	The Parkerville Tavern has <i>very high aesthetic significance</i> for the style, scale and landmark value the building has which are rare both in the Townsite and the Shire generally. The Tavern also has <i>high social significance</i> for the role and focus the place has provided, and should continue to provide for Parkerville's community.	8544
39	Old Parkerville School and Headmaster's House (adjoining site)	Lot 259 Riley Road	Parkerville	2	The old Parkerville Primary School, albeit is currently in relatively poor condition, has <i>aesthetic significance</i> , for its unusual design and <i>high social and historic significance</i> for its importance to the people of Parkerville.	8545

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
40	Parkerville Children's Home	Lot 9001 Beacon Road	Parkerville	1	The Parkerville Children's Home has <i>very high social and historic significance</i> for the people of the Mundaring community, former residents and the State generally for the role it has played in the care of children. The place is <i>significant historically and socially</i> for its approach to 'cottage care' for children long before it was appreciated as a better alternative than 'institutionalised' care. It also has important <i>historic significance</i> for its associations with public figures of the day such as Walter Padbury, Charles Harper, J.H. Worthington, and Sister Kate Clutterbuck. Many of the buildings have high <i>aesthetic significance</i> which are further complimented by their setting.	8546
41	Parkerville Hall	2055 Cnr Riley Road and Seaborne Street	Parkerville	2	The Parkerville Hall has <i>high aesthetic, historic, social and townscape significance</i> . It is a rare example in the Shire of its style and is a prominent focus in the townscape. The Hall was built by community support in 1922 and has continued to play a very important role in the life of the community.	1696

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
42	Undercliffe Hospital	22 Coongan Avenue	Greenmount	2	'Undercliffe' House has <i>very high aesthetic, social and historic significance</i> for the community as an example of a large, early residence in the area; its associations with prominent people active in the development of the district; and for its role in providing hospital/nursing care in the region for a substantial part of its existence.	8547
44	Clayton Farm	27 Clayton Road (West)	Helena Valley	1	Clayton Farm has <i>very high social, historic and aesthetic significance</i> for the Shire of Mundaring and State as one of few remaining examples of early colonial lifestyle and building. Its <i>aesthetic significance</i> is advanced considerably in having survived on a larger 'urban' farm lot which also provides an interpretation of its social and historic context.	3839
45	Katharine's Place	11 Old York Road	Greenmount	1	Katharine's Place has <i>very high historic significance</i> for its associations with Katharine Susannah Prichard, Hugo Throssell V.C. and the Rev. Percy U. Henn; <i>very high social significance</i> as an a writer's centre, an illustration of a writer's way of life and as a typical turn of the century semi-rural house/lifestyle; and <i>high aesthetic significance</i> for the house in its rambling garden setting complete with very large, old pine tree that provides something of a local landmark.	1681

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
46	Hugo Throssell Memorial	Lot 213 Old York Road	Greenmount	2	The Hugo Throssell Memorial has <i>high social and historic</i> significance in its commemoration of its namesake, it also has <i>some aesthetic significance</i> for its landmark value on Great Eastern Highway.	3838
47	Blackboy Hill Site	Lot 8386 Innamincka Road	Greenmount	1	The Blackboy Hill commemorative site has <i>very high social and historic significance</i> for its associations as a World War I training camp, sustenance camp for the unemployed during the depression and as a commemorative site.	4479
48	Bilgoman Well/Convict Site	Lot 556 Darlington Road / Great Eastern Highway/Lionel Road	Greenmount	2	The Bilgoman Well and convict ruins are a <i>very significant historical site</i> for the Shire of Mundaring as one of few physical reminders of the convict era.	8548
59	Glen Forrest School	34 Tillbrook Street	Glen Forrest	2	The Glen Forrest Primary School 1897 classroom has <i>very high social, historic and aesthetic significance</i> for the Shire of Mundaring and the Glen Forrest community as the oldest surviving classroom still in use in the Shire. The school provides a very strong focus and sense of place for the community. This is strengthened by the fact that some families in the district have had as many as 3 and 4 generations of children attend the school	8553

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
60	Octagonal Hall	52 McGlew Road	Glen Forrest	1	The Octagonal Hall has <i>very high social, historic and aesthetic significance</i> because of its continuous associations with the community and agricultural activities in the district; associations with early public figures in the district, Local Government and industry; and because of the building's unique architectural style.	1691
61	St Andrew's Anglican Church	38 McGlew Road	Glen Forrest	2	The St Andrews Anglican Church is of <i>very high social and historic significance</i> to the people of Glen Forrest and to the Mundaring Shire as the oldest church and parish in the Shire, and for its associations with prominent Glen Forrest personalities at the turn of the century.	1690
62	Uniting Church	56 McGlew Road	Glen Forrest	2	The Glen Forrest Uniting Church has <i>very high social significance</i> as a focal point for community activity over the years and <i>aesthetic significance</i> for the contribution the building makes to the townsite.	1689

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
65	Leithdale	5-7 Lukin Avenue	Darlington	1	'Leithdale' has <i>very high aesthetic, social and historic significance</i> for the Shire of Mundaring and the people of Western Australia. Its <i>aesthetic significance</i> is contained in the <i>authenticity</i> of its style materials and setting. The <i>social and historic significance</i> is found in the association 'Leithdale' had with Allpike, Skinner and D.H. Lawrence and the example the house provides of an early hills residence/lifestyle, and various other social uses benefiting the community such as school, church and convalescent home.	8554
66	Holmesdale	78 Darlington Road	Darlington	1	'Holmesdale' has <i>very high social and historic significance</i> for its associations with Amherst, who was a very important State and local figure, especially in the development of the Darlington community. To a lesser extent, it is also important for its associations with Saw who later donated the adjacent land to the University. The house has strong social significance for the people of Darlington and has <i>aesthetic significance</i> as an excellent example of the early stone houses which characterise the 'village'. This significance is strengthened by its high <i>authenticity and integrity</i> which give the house added qualities of <i>representativeness and rarity</i> .	1688

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
70	St Cuthbert's Anglican Church	Lot 24 Darlington Road	Darlington	1	St Cuthbert's Church, Darlington has <i>very high aesthetic and social significance</i> for the Darlington community in its contribution to the sense of place that residents feel for the place and the building's landmark value in the 'village' precinct.	1685
71	Darlington Hall	Lot 37 Pine Terrace	Darlington	2	The Darlington Hall, together with surrounding park, oval and pine tree plantings, has <i>very high aesthetic, social and historic significance</i> for the people of Darlington and the Shire of Mundaring for its origins with Dr Waylen and early wine making in the district; as the long serving centre for social activities and the for the visual focus and landmark qualities the building, oval and pine trees give the community.	8556

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
73	Quarries	170 Strettle Road Lot 219 and 2823 Hudman Road	Greenmount Darlington	1	The quarry sites in the Shire of Mundaring have varying degrees of significance; however, several have <i>very high social, historic and scientific significance</i> for their role in the development of important, landmark projects in the State including the Fremantle Harbour project, ballast for State railway lines, Kings Park War Memorial, Perth GPO, Commonwealth Bank (Forrest Place) and Council House. Over the years, the quarries were important local industries for the region generally and a significant source of employment of convict and immigrant labour.	16788
76	Jarrah Tree, Sawmills and Sawpit	Lot 3040 Mundaring Weir Road and State Forest	Mundaring and Sawyers Valley	2	The large jarrah tree and saw pit are <i>important historically as a monument</i> to the forest/timber industry that established the hills communities and the early days of the colony. It has <i>very high social, historic and aesthetic significance</i> for the Shire and the State as an illustration close to the city of what the early timber industry demanded of its workers. The size and scale of the tree has <i>landscape significance</i> and the potential to raise community awareness of the importance of our native forests environmentally and historically, illustrating the magnitude of what both the trees and the original forest must have been.	26283, 16616 and 4374

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
77	Sawyers Valley School	235 Sawyers Road	Sawyers Valley	2	The Sawyer's Valley Headmaster's house has <i>very high social and historic significance</i> as possibly one of the oldest school quarters remaining in the Shire and as a typical example of a headmaster's house at the turn of the century.	8559
80	Draper's Cottage (fmr)	355 Devon Place	Parkerville	2	<p>The Draper House (fmr) and the associated Maid's Cottage have aesthetic value as a demonstration of the type of holiday home built for affluent families in the late 19th and early 20th century. The place has generous proportions and includes quarters for servants.</p> <p>The Maid's Cottage is a rare surviving example of servant's quarters from the late 19th or early 20th century, in proximity to the main residence.</p> <p>The Draper House (fmr) has historic value for its association with the development of Parkerville, and the greater hills district, as a place for holiday homes for the Perth elite.</p>	

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
81	Old Mahogany Inn	4260 Great Eastern Highway	Mahogany Creek	1	The Old Mahogany Inn has <i>very high aesthetic, social and historic significance</i> for the Shire of Mundaring and the State. The location and setting have identifiable <i>landmark qualities</i> which add to its aesthetic significance. The role the inn has played, along the route leading to the early agricultural and development areas of the State, has important social and historic significance together with high <i>authenticity and representativeness</i> of the place. Associations with local identities such as the Byfields, and important State figures of the day, such as the Chief Justice S.H. Parker, further adds to the significance of the place.	1693
82	Tamblyn Homestead	2475 Stoneville Road	Stoneville	2	Tamblyn House has <i>high aesthetic, social and historic significance</i> for the Stoneville community and the Shire of Mundaring.	8560
83	John Forrest National Park	Lot 11664 Great Eastern Highway	Greenmount	1	The John Forrest National Park has <i>very high historic, aesthetic, social and scientific significance</i> for the State and the Shire of Mundaring.	8561
84	Swan View Tunnel	Lot 10159 Great Eastern Highway	Hovea	1	The Swan View railway tunnel has very high aesthetic, social, historic and scientific significance for the State and the Shire of Mundaring. As the only tunnel in the rail network of Western Australia it is significant for its rarity.	2660

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
85	Mt Helena Hotel	900 Keane Street	Mt Helena	2	The early twentieth century Chidlow Tavern building has <i>very high historical and social significance</i> for the Shire of Mundaring and the Chidlow community as a reminder of the importance of the town in the development of the Eastern Railway and primary industry of the surrounding district.	8562
86	Chidlow Tavern	4575 Thomas Street	Chidlow	2	The early twentieth century Chidlow Tavern building has <i>very high historical and social significance</i> for the Shire of Mundaring and the Chidlow community as a reminder of the importance of the town in the development of the Eastern Railway and primary industry of the surrounding district.	8563
87	St Mark's Anglican Church	695 Keane Street	Mt Helena	2	The church has been at this site since 1930. Before that it was in a more flood prone area in Chidlow Street, near where Mt Helena Oval is located. The building was consecrated on 26 th April 1907 by the Bishop of Perth.	1695
88	St Francis Anglican Church	3875 Werribee Road	Wooroloo	2	The St Francis Anglican Church has <i>aesthetic significance</i> for its contribution to the Wooroloo townscape.`	8564

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
91	Wooroloo Prison Farm	Lot 17969 Great Eastern Highway	Wooroloo	1	The Wooroloo Prison/Sanatorium has <i>very high aesthetic, social, historic and scientific cultural significance</i> for the Shire of Mundaring and the State of Western Australia. Its setting, layout and design together with its <i>very good condition and authenticity</i> give it <i>very high aesthetic significance</i> . The sanatorium's role in the treatment of tuberculosis, and later its use as a prison all contribute to its <i>very high social, historic and scientific significance</i> . In addition, the extent and integrity of the site contributes to its <i>rarity</i> and <i>representativeness</i> as an example of a sanatorium/hospital and an illustration of the tuberculosis health care philosophy from the earlier part of the 20th Century.	8566
94	Lake Leschenaultia	2135 Rosedale Road	Chidlow	1	Lake Leschenaultia has very high social and historic significance to the people of the Shire and the State of Western Australia for its long established recreational role and its origins with railway heritage.	8568

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
95	Lakes Road-House	13724 Great Eastern Highway	The Lakes	2	The stone ruins of the old <i>Travellers Arms</i> (Inn) / Half-Way House have <i>high social and historic significance</i> to the shire of Mundaring and the State of Western Australia for their associations with early travel, communication and settler's movement through the district with the opening up of the agricultural land to the east of Perth.	1684
97	Eastern Railway	Lot 10159 Great Eastern Highway (Railway Reserve)	Mundaring Shire	1	The Eastern Railway reserves have very high significance to Western Australia and in particular to the residents of the Shire of Mundaring. They have aesthetic and landscape significance for the areas they pass through and the pedestrian access they provide for the public. The Woorloo Culvert and the Swan View Tunnel have particular aesthetic appeal for provoking a sense of romance with the rail era. The reserves have historic and social significance for the impact on the development of the State and the impact on peoples lives. The walk trails today have <i>high social significance</i> for the recreation facility they provide for the community. The Eastern Railway reserves have <i>scientific significance</i> as an illustration of the engineering required in their construction as evidenced by the Swan View Tunnel, Woorloo Culvert, trestle bridges and the numerous cuttings and embankments that still remain.	2663

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
98	Old Police Station	Lot 7 Great Southern Highway	The Lakes	2	The old Lakes Police Station has <i>high social and historic significance</i> to the Shire and the State for its associations with the early settlement of the district and the opening up of agricultural lands to the east.	8569
100	Wooroloo Cemetery	Lot 29364 Linley Valley Road	Wooroloo	1	The Wooroloo Cemetery has <i>high social significance</i> for the Shire, surrounding district and the State for its associations as the burial place for early families in the district and the tuberculosis sanatorium in the early half of the century.	8571
102	Belle View House	10 Library Way	Bellevue	1	<p>Belle View House and Stables, Bellevue, a single-storey, brick and metal, Victorian Regency style residence and timber and metal stables, has cultural heritage significance for the following reasons:</p> <ul style="list-style-type: none"> • the place is a fine demonstration of the Victorian Regency architectural style, in a mid to late 19th Century farm and residence; • the place is comparatively rare and retains a moderate degree of authenticity and integrity; • the stables are a relatively rare, surviving example of rural architecture of the period, and have the potential to add to the knowledge of transport, farming and husbandry practices no longer used; 	3836

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
102	Belle View House Continued				<ul style="list-style-type: none"> • the place has strong associations with Edward Robinson, pastoralist, farmer, politician and developer who was part of the socially influential group known as the 'Nor'Westers'; • the residence is an excellent representative example of a substantial residence built by an influential Western Australian who acquired prosperity prior to the gold rush period; • the place has associations with Governor Stirling's Woodbridge land grant, later purchased by Henry Brockman, and was formerly part of the last of several original large rural land holdings left in the district; and, • the place has given its name to the suburb of Bellevue which is an example of an early planned suburb compared to the adjacent town of Midland which just grew around 'The Junction'. 	

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
106	Gianni Residence and Cash Shop (fmr)	1355 Keane Street East	Mount Helena	2	<p>This place demonstrates elements of the Post War international style and the Inter war California Bungalow Style.</p> <p>The place has historic value for its connection with the settlement of the district in the Inter war period by Italian migrant Luigi Gianni and his family.</p> <p>The place has historic value for its association with the Mount Helena Troop of the 10th Light Horse Regiment who used the building as its headquarters during World War Two.</p>	
109	Sawyers Valley Tavern	10860 Great Eastern Highway	Sawyers Valley	2	<p>The Sawyers Valley Tavern has <i>high aesthetic and social significance</i> for the local community and the Shire of Mundaring. The <i>aesthetic significance</i> is highlighted by the building's <i>Art Deco</i> character that is unique in the Shire. The site also has <i>historic significance</i> as the location of Lot Leather's former store and hotel.</p>	8576
114	Mundaring Sculpture Park	Lot 332 Jacoby Street	Mundaring	1	<p>The Mundaring Sculpture Park has <i>very high aesthetic, social and historic significance</i> for the State and the Shire of Mundaring for its unique arts concept, associations with prominent Local, State and Nationally recognised artists; and with the history of the railways.</p>	8577

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
119	Chidlow WW2 Army Battalion Camp 4	Lot 351 Betty Street	Chidlow	2	<p>The concrete pads of Chidlow Camp 4 have some aesthetic value as remnant structures in the relatively undisturbed bushland.</p> <p>The place provides an example of Western Australia's change in strategic importance due to the entry of Japan into World War 2.</p> <p>The remains have historic value for their association with World War 2 and the intense period of training by the AIF in preparation for overseas service. The number of troops in Chidlow and the density of construction in the bushland would have affected the small Chidlow community.</p> <p>The remains and their surrounds have scientific value for the potential to provide valuable information about the lives of soldiers deployed to train and protect Western Australia during the latter part of WW2.</p>	26306

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
119	Chidlow WW2 Army Battalion Camp 4 Continued				<p>The place provides the potential to identify and confirm the layout of such camps and whether they deviated from plans initially drawn by the Department of Defence.</p> <p>The place has social value as members of the Mundaring community have undertaken their own archaeological investigations and lobbied state and local government to ensure the history of the place is recorded.</p>	
121	Manager's House	5 Owen Road	Darlington	2	<p>This place has historic value for its association with the establishment of the Darlington Vineyard by Dr Alfred Waylen which was a key project for the development of Darlington in the late 19th century.</p> <p>The place has aesthetic value for the remaining mud brick within the core of the building.</p>	27450

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
140	Swan View Primary School	380 Morrison Road	Swan View	2	<p>This school has historic value for its association with the development of Swan View in the period following World War II when the population grew rapidly.</p> <p>The place has aesthetic value as a good and intact example of the Post War International style executed in the timber and fibre cement.</p> <p>The place has social value for the many members who have an association with through attendance as a student, teacher, family member or community event held at the school grounds.</p>	27469
142	Tower House	4 Old Tower Court	Darlington	2	<p>The tower is rare as a structure of this type constructed on a private residence using methods from the early 20th century.</p> <p>The tower is a landmark in this streetscape and within the Darlington district.</p> <p>The place has historic value for its association with the provision of kindergarten services to children during World War II.</p> <p>The place has social value for the people who attended the kindergarten during World War II or knew people who did.</p> <p>The presence of this structure in the streetscape contributes to the community sense of place.</p>	27471

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
143	Caringorm	8 Dalry Road	Darlington	2	<p>The place has aesthetic value as an excellent, intact example of the Inter War Arts and Crafts style executed in local stone.</p> <p>The place has historic value for its association with the development of Darlington in the Inter War period by prominent members of the Perth and Western Australian community.</p> <p>The place has historic value for its association with leading Western Australian architects, Oldham Boas and Ednie Brown, and the original owner James McCallum Smith MP and owner of the Sunday Times Newspaper.</p>	27472
146	Halcyon	6 Gladys Street	Darlington	2	<p>The place has aesthetic value as a large and intact example of the Federation Bungalow style executed in timber which is less common in the Darlington area.</p> <p>The place has historic value for its association with the development of Darlington as a holiday destination amongst the wealthy citizens of Perth.</p> <p>The place has historic value for its association with the author Mollie Skinner and Myra Wills who occupied the place in the 1930s.</p>	27475

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
147	Allambee (fmr)	6 Leithdale Road	Darlington	2	<p>The place has aesthetic value as a good intact example of a generous residence in the Inter War California Bungalow style executed in timber and tile.</p> <p>The place has historic value for its association with prominent architect Frederick Hawkins who designed the residence for himself and his family.</p> <p>The place has historic value for its association with the development of Darlington in the Inter War period for leading members of the Perth community.</p>	27476
151	Beulah	12 Leithdale Road	Darlington	2	<p>The place has aesthetic value as a good intact example of the Federation Queen Anne style executed in brick and stone.</p> <p>The place has historic value for its association with the establishment and development of Darlington in the early 20th century.</p> <p>The place has historic value for its association with early settlers the Carson family and the Lyons family in the Inter War period, all of whom contributed to the Darlington community.</p>	27480

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
156	Residence, 24 Brook Road	24 Brook Road	Darlington	2	<p>The place has aesthetic value as a large and intact demonstration of the Inter War California Bungalow style executed in timber and stone.</p> <p>The place has historic value for its association with the development of Darlington in the Inter War period.</p> <p>The place has historic value for its association with local builder George Bishop who was responsible for the construction of many buildings in Darlington, including this residence for himself and his family.</p>	27485
164	Tarlow	90 Darlington Road	Darlington	2	<p>The place has aesthetic value as a large, intact and good example of the Federation Bungalow style executed in stone which has been well designed to accommodate the sloping site.</p> <p>The place has historic value for its association with the period in the early 20th century when Darlington was the preferred location for holiday homes of leading Perth citizens and their families.</p>	27493

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
168	Greville Tearooms	365 Glen Road	Darlington	2	<p>The place has aesthetic value as it is highly intact and rare example of an Inter War California Bungalow style residence and tea rooms which retains much of its original detail.</p> <p>The place has historic value for its association with the number of small businesses operating in Darlington in the Inter War period to cater for visitors to the region.</p> <p>The place has historic value as it is associated with prominent architect Herbert Parry who designed the place, and the Greville family who lived in and operated the multi-purpose business from this place.</p>	27497
170	Darlington Primary School	2-14 Amherst Avenue	Darlington	2	<p>The buildings have aesthetic value as a demonstration of the simple functional lines that were typical of single classroom schools designed by the PWD from 1900 up until the Second World War.</p> <p>The Classroom has high social value for the parents and pupils of Darlington Primary School and the residents of Darlington.</p> <p>The place is associated with the growth and development of Darlington.</p> <p>The place is associated with the development of the state's education system and in particular that of trainee teachers from Claremont Teachers' College.</p> <p>The Classroom and the Shelter Shed continue to be used for their original purposes.</p>	18473

Shire of Mundaring Heritage List (2025)

LHS Place No.	Place Name	Address	Location	Significance Category	Statement of Significance	InHerit Database No.
172	Chidlow WWII Army Camps (fmr)	Lot 351 Betty Street, Lots 350 and 4426 Rosedale Road, Lot 2 Old Northam Road	Chidlow	2	<p>The concrete pads of Chidlow Camps have some aesthetic value as remnant structures in the relatively undisturbed bushland.</p> <p>The place provides an example of Western Australia's change in strategic importance due to the entry of Japan into WWII.</p> <p>The remains have historic value for their association with WWII and the intense period of training by the AIF in preparation for overseas service. The number of troops in Chidlow and the density of construction in the bushland would have affected the small Chidlow community.</p> <p>The remains and their surrounds have scientific value for the potential to provide valuable information about the lives of soldiers deployed to train and protect Western Australia during the latter part of WWII.</p> <p>The place provides the potential to identify and confirm the layout of such camps and whether they deviated from plans initially drawn by the Department of Defence.</p> <p>The place has social value as members of the Mundaring Community have undertaken their own archaeological investigations and lobbied state and local government to ensure the history of the place is recorded.</p>	

HERITAGE LIST



The purpose of this Heritage List is to identify places that are of significant cultural heritage value and worthy of conservation. Modification or additions to a place on the Heritage List will usually require planning approval and may require referral to the State Heritage Office. Place records are available from the State Heritage Office 'inHerit' database at www.stateheritage.wa.gov.au

There are many places of varying heritage value identified in the Shire's Municipal Heritage Inventory (MHI). Only places of high significance are included on the Heritage List (e.g. high degree of integrity/authenticity, rare or outstanding example, very important to the history of the locality). The level of significance is one of the matters that the Shire will consider in making a decision on an application for planning approval, or in undertaking work on Shire owned/managed places of heritage value.

Refer to the Shire's Local Planning Scheme No. 4 and Heritage Planning Policy for more information, or contact the Shire's Planning Service on 9290 6740.

The heritage places are listed below in alphabetical order by locality.

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Belle View, 1100 Katharine St cnr Wilkins Street	Bellevue	MHI site 213 - 'Belle View' homestead has very high aesthetic, social and historic significance as one of few remaining examples in the metropolitan area of a substantial early farming property that retains high authenticity and integrity and was considered a model farm of its time. As such it is very significant for its rarity and representativeness.	1 - Exceptional	Yes	3836
Quarries or Government Quarries, Lots 219 & 2823 Hudman Road	Boya	MHI site 141 - The quarry sites in the Shire of Mundaring have varying degrees of significance; however, several have very high social, historic and scientific significance for their role in the development of important, landmark projects in the State including the Fremantle Harbour project, ballast for State railway lines, Kings Park War Memorial, Perth GPO, Commonwealth Bank (Forrest Place) and Council House. Over the years, the quarries were important local industries for the region generally and a significant source of employment of convict and immigrant labour.	1 - Exceptional	Yes	1678

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Chidlow Tavern, Thomas Street	Chidlow	MHI site 180 - The early twentieth century Chidlow Tavern building has very high historical and social significance for the Shire of Mundaring and the Chidlow community as a reminder of the importance of the town in the development of the Eastern Railway and primary industry of the surrounding district.	2 - Considerable	No	8563
Lake Leschenaultia, Rosedale Road	Chidlow	MHI site 200 - Lake Leschenaultia has very high social and historic significance to the people of the Shire and the State of Western Australia for its long established recreational role and its origins with railway heritage.	1 - Exceptional	Yes	8568
Chidlow WW2 Army Battalion Camp 4	Chidlow	<p>MHI site (no number) –</p> <p>The concrete pads of Chidlow Camp 4 have some aesthetic value as remnant structures in the relatively undisturbed bushland.</p> <p>The place provides an example of Western Australia's change in strategic importance due to the entry of Japan into World War 2.</p> <p>The remains have historic value for their association with World War 2 and the intense period of training by the AIF in preparation for overseas service. The number of troops in Chidlow and the density of construction in the bushland would have affected the small Chidlow community.</p> <p>The remains and their surrounds have scientific value for the potential to provide valuable information about the lives of soldiers deployed to train and protect Western Australia during the latter part of WW2.</p> <p>The place provides the potential to identify and confirm the layout of such camps and whether they deviated from plans initially drawn by the Department of Defence.</p> <p>The place has social value as members of the Mundaring community have undertaken their own archaeological investigations and lobbied state and local government to ensure the history of the place is recorded.</p>	2 - Considerable	No	26306

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Darlington Hall, Pine Terrace/ Owen Road Darlington	Darlington	MHI site 139 - The Darlington Hall, together with surrounding park, oval and pine tree plantings, has very high aesthetic, social and historic significance for the people of Darlington and the Shire of Mundaring for its origins with Dr Waylen and early wine making in the district; as the long serving centre for social activities and the for the visual focus and landmark qualities the building, oval and pine trees give the community.	2 - Considerable	No	8556
Holmesdale, 78 Darlington Road	Darlington	MHI site 130 - 'Holmesdale' has very high social and historic significance for its associations with Amherst, who was a very important State and local figure, especially in the development of the Darlington community. To a lesser extent, it is also important for its associations with Saw who later donated the adjacent land to the University. The house has strong social significance for the people of Darlington and has aesthetic significance as an excellent example of the early stone houses which characterise the 'village'. This significance is strengthened by its high authenticity and integrity which give the house added qualities of representativeness and rarity.	1 - Exceptional	Yes	1688
Leithdale, 5-7 Lukin Road	Darlington	MHI site 126 - 'Leithdale' has very high aesthetic, social and historic significance for the Shire of Mundaring and the people of Western Australia. Its aesthetic significance is contained in the authenticity of its style materials and setting. The social and historic significance is found in the association 'Leithdale' had with Allpike, Skinner and D.H. Lawrence and the example the house provides of an early hills residence/lifestyle, and various other social uses benefiting the community such as school, church and convalescent home.	1 - Exceptional	Yes	8554
St Cuthbert's Anglican Church, cnr Hillsden and Darlington Road	Darlington	MHI site 138 - St Cuthbert's Church, Darlington has very high aesthetic and social significance for the Darlington community in its contribution to the sense of place that residents feel for the place and the building's landmark value in the 'village' precinct.	1 - Exceptional	Yes	1685
Bilgoman Well, cnr Darlington Rd/Great Eastern Highway	Greenmount	MHI site 83 - The Bilgoman Well and convict ruins are a very significant historical site for the Shire of Mundaring as one of few physical reminders of the convict era.	2 - Considerable	No	8548

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Blackboy Hill Site, Innamincka Road	Greenmount	MHI site 82 - The Blackboy Hill commemorative site has very high social and historic significance for its associations as a World War I training camp, sustenance camp for the unemployed during the depression and as a commemorative site.	1 - Exceptional	Yes	4479
Hugo Throssell Memorial, Old York Road/Great Eastern Highway	Greenmount	MHI site 81 - The Hugo Throssell Memorial has high social and historic significance in its commemoration of its namesake, it also has some aesthetic significance for its landmark value on Great Eastern Highway.	2 - Considerable	No	3838
John Forrest National Park, Great Eastern Highway	Greenmount	MHI site 169 - The John Forrest National Park has very high historic, aesthetic, social and scientific significance for the State and the Shire of Mundaring.	1 - Exceptional	Yes	8561
Katharine Susannah Prichards House, 11 Old York Road	Greenmount	MHI site 80 - Katharine's Place has very high historic significance for its associations with Katharine Susannah Prichard, Hugo Throssell V.C. and the Rev. Percy U. Henn; very high social significance as an a writer's centre, an illustration of a writer's way of life and as a typical turn of the century semi-rural house/lifestyle; and high aesthetic significance for the house in its rambling garden setting complete with very large, old pine tree that provides something of a local landmark.	1 - Exceptional	Yes	1681
Undercliffe Hospital, 22 Coongan Avenue	Greenmount	MHI site 77 - 'Undercliffe' House has very high aesthetic, social and historic significance for the community as an example of a large, early residence in the area; its associations with prominent people active in the development of the district; and for its role in providing hospital/nursing care in the region for a substantial part of its existence.	2 - Considerable	No	8547

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Glen Forrest School, Tillbrook Road	Glen Forrest	MHI site 119 - The Glen Forrest Primary School 1897 classroom has very high social, historic and aesthetic significance for the Shire of Mundaring and the Glen Forrest community as the oldest surviving classroom still in use in the Shire. The school provides a very strong focus and sense of place for the community. This is strengthened by the fact that some families in the district have had as many as 3 & 4 generations of children attend the school.	2 - Considerable	No	8553
Octagonal Hall, 52 McGlew Road	Glen Forrest	MHI site 120 - The Octagonal Hall has very high social, historic and aesthetic significance because of its continuous associations with the community and agricultural activities in the district; associations with early public figures in the district, Local Government and industry; and because of the building's unique architectural style.	1 - Exceptional	Yes	1691
St Andrews Anglican Church, 38 McGlew Road	Glen Forrest	MHI site 121 - The St Andrews Anglican Church is of very high social and historic significance to the people of Glen Forrest and to the Mundaring Shire as the oldest church and parish in the Shire, and for its associations with prominent Glen Forrest personalities at the turn of the century.	2 - Considerable	No	1690
Uniting Church, 56 McGlew Road	Glen Forrest	MHI site 122 - The Glen Forrest Uniting Church has very high social significance as a focal point for community activity over the years and aesthetic significance for the contribution the building makes to the townsite.	2 - Considerable	No	1689
Clayton Farm, 110 Clayton Road	Helena Valley	MHI site 79 - Clayton Farm has very high social, historic and aesthetic significance for the Shire of Mundaring and State as one of few remaining examples of early colonial lifestyle and building. Its aesthetic significance is advanced considerably in having survived on a larger 'urban' farm lot which also provides an interpretation of its social and historic context.	1 - Exceptional	Yes	3839
Linton Residence, 1445 Falls Road	Hovea	MHI site 67 - The former 'Linton' residence has high aesthetic, historic and social significance for its associations with prominent State artist and silversmith James W. R. Linton.	2 - Considerable	No	8542

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Old Mahogany Inn, 4260 Great Eastern Highway	Mahogany Creek	MHI site 163 - The Old Mahogany Inn has very high aesthetic, social and historic significance for the Shire of Mundaring and the State. The location and setting have identifiable landmark qualities which add to its aesthetic significance. The role the inn has played, along the route leading to the early agricultural and development areas of the State, has important social and historic significance together with high authenticity and representativeness of the place. Associations with local identities such as the Byfields, and important State figures of the day, such as the Chief Justice S.H. Parker, further adds to the significance of the place.	1 - Exceptional	Yes	1693
Mt Helena Hotel, 900 Keane Street	Mount Helena	MHI site 179 - The Mt Helena Tavern has very high aesthetic, social and historic significance for the Mt Helena community and the Shire of Mundaring.	2 - Considerable	No	8562
St Marks Anglican Church, 695 Keane Street (corner of Ealy Street)	Mount Helena	MHI site 181 - The church has been at this site since 1930. Before that it was in a more flood prone area in Chidlow Street, near where Mt Helena Oval is located. The building was consecrated on 26 th April 1907 by the Bishop of Perth.	2 - Considerable	No	1695
Anglican Church of the Epiphany, 11 Mann Street	Mundaring	MHI site 48 - The Mundaring Anglican Church of the Epiphany has very high social significance for the people of the Mundaring district; high aesthetic significance for its simple elegant ecclesiastical design and its contribution to the Mundaring townscape; and high historic significance for the original associations of prominent community members who contributed to and patronised the church.	2 - Considerable	No	1678
Belair House, 7435 Great Eastern Highway	Mundaring	MHI site 34 - 'Belair' has high aesthetic, historic and social significance for Mundaring because of its townscape value; its late Federation style and unusual use of brick and stone; and for its associations with the Luhrs family.	2 - Considerable	No	8530
Captain Scott's Cottage, 2965 Jacoby Street	Mundaring	MHI site 15 - Captain Scott's cottage has high social and aesthetic significance as a well preserved and excellent example of a small 'workers' cottage. It's detailing and finish is possibly better than what was typical of its time and most of which has survived intact despite adaptation and modification over the years. As such, the cottage also demonstrates adaptive use as modifications have been made to suit changing needs/lifestyles.	2 - Considerable	No	8525

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Church of the Sacred Heart, 200 Coolgardie Street	Mundaring	MHI site 47 - The Mundaring Sacred Heart Church and School buildings have high social and aesthetic significance for the Mundaring community.	2 - Considerable	No	1683
Eastern Hills Showcase/ Braun Gallery, 27 Hartung Street	Mundaring	MHI site 8 - The house/gallery at 27 Hartung Street has high social and aesthetic significance for the Mundaring township as an early example of a larger type weather-board residence of its period when similar large houses in the town were either stone or brick. Weather-boards were more commonly used for smaller cottages or outbuildings. Like 'Temuka' (Site 26) and 'Craigie House' (Site 45) this building is one of few remaining large timber houses of this calibre.	2 - Considerable	No	8524
Eastern Railway (part of Eastern Railway Three Bridges Entry)	Mundaring	MHI site 204 - The Eastern Railway reserves have very high significance to the State of Western Australia and in particular to the residents of the Shire of Mundaring. They have aesthetic and landscape significance for the areas they pass through and the pedestrian access they provide for the public. The Wooroloo Culvert and the Swan View Tunnel have particular aesthetic appeal for provoking a sense of romance with the rail era. The reserves have historic and social significance for the impact on the development of the State and the impact on peoples lives. The walk trails today have high social significance for the recreation facility they provide for the community. The Eastern Railway reserves have scientific significance as an illustration of the engineering required in their construction as evidenced by the Swan View Tunnel, Wooroloo Culvert, trestle bridges and the numerous cuttings and embankments that still remain.	1 - Exceptional	Yes	2663
Faversham, 2075 Jacoby Street	Mundaring	MHI site 23 - "Ballindown/Faversham" has very high social and historic significance for: <ul style="list-style-type: none"> • its associations with a prominent local and State recognised person in Alexander McCallum; • as a reminder of how the hills developed as a holiday destination for the wealthy; • as an example of a hills retreat built for the wealthy at the turn of the century and of which there are few remaining examples with such integrity (scarcity value); 	1 - Exceptional	Yes	4546

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Faversham cont.		<ul style="list-style-type: none"> as one of the most significant private houses built in Mundaring especially at that time; and as an example of the adaptive use of large residences as convalescent homes which were formerly an important part of post hospital care; and more recently for bed and breakfast accommodation. 			
Fred Jacoby Park and Oak Tree, Mundaring Weir Road	Mundaring	MHI site 59 - The English Oak tree in Fred Jacoby Park has very high aesthetic, historic and scientific significance for the region and the Shire of Mundaring, for its rarity and associations with Jacoby and the early settlement of the district.	2 - Considerable	No	4373
George Ingram Residence, 7405 Great Eastern Highway	Mundaring	MHI site 30 - "Ingram's" house at the corner of Great Eastern Highway and Stoneville Road has very high aesthetic and social significance for its street/ townscape qualities, materials and character.	2 - Considerable	No	8529
Masonic Lodge, 2815 Jacoby Street	Mundaring	MHI site 46 - The Masonic Lodge building has high aesthetic and social significance for the local community for the role Freemasonry played in the lives of the early community and the involvement of prominent people in the district. The building has aesthetic significance for its character in the townscape and the use of stone in a civic building.	2 - Considerable	No	8536
Mundaring Cemetery, 1 Yarri Grove	Mundaring	MHI site 52 - The Mundaring Cemetery has high social significance to the community as the burial place of many local residents who lived in the district from the early part of this century. Previously, families travelled to Midland and Guildford to conduct their funerals.	2 - Considerable	No	8537
Mundaring Hotel, 3115 Jacoby Street	Mundaring	MHI site 39 - The Mundaring Hotel has very high aesthetic, social and historic significance for its two storey styling and landmark qualities; its associations with the old heart of Mundaring and prominent people involved with the development of the district.	2 - Considerable	No	1674
Mundaring school house, 7225 Great Eastern Highway	Mundaring	MHI site 41 - The old Mundaring Primary School has very high social, historic and aesthetic significance on its site in the centre of the Mundaring townsite. Historically and socially, the building has served the community since 1908 and is one of the last remnants of original buildings in the town centre. Together with the adjacent War Memorial and former Post Office, they form an historic precinct which terminates the northern end of the	2 - Considerable	No	1682

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Mundaring school house cont.		important Nichol Street axis through the town centre. This also provides a landmark quality to its aesthetic significance as well as its weatherboard construction which is a reminder of the early timber milling industry in the district.			
Mundaring War Memorial and Gardens, cnr Nichol Street/Great Eastern Highway	Mundaring	MHI site 42 - The Mundaring War Memorial site has very high local social and historic significance because of its recognition of local people who fought in two world wars, continuing associations with the RSL and past associations with earlier people in the district who contributed to its establishment. This significance continues today as the focus for commemorative activities in the community. The memorial also has high aesthetic significance as a local landmark and streetscape element in the civic heart of Mundaring.	2 - Considerable	No	8533
Mundaring Weir and gardens, Mundaring Weir Road	Mundaring	MHI site 55 - The Mundaring/Goldfields Weir and gardens has very high significance Nationally, to the State of WA and to the Shire of Mundaring for social, historic and scientific reasons because of importance to the State, gold mining and agricultural industry and the magnitude of its engineering achievement.	2 - Considerable	No	8538
Mundaring Weir Hall, Weir Village Road	Mundaring	MHI site 51 - The Mundaring Weir Hall (former Mechanics Institute) has very high social and historic significance for Mundaring for its associations with the early community supporting the Weir, pumping stations, forestry and agricultural industry of the area.	1 - Exceptional	Yes	1676
Mundaring Weir Hotel, Weir Village Road	Mundaring	MHI site 50 - The Mundaring Weir Hotel has very high social, historic and aesthetic significance, both locally and State, for its associations with the Weir's construction, operation and tourist activities together with its two storey architectural style of which there are only several examples in the Shire.	1 - Exceptional	Yes	1675
Mundaring Youth Hostel, Mundaring Weir Road	Mundaring	MHI site 58 - The old Mundaring Weir Primary School and Headmaster's residence is of very high social and historic significance as one of few remaining school and quarters on a single site in the Shire, and because of its origins and associations with the Weir communities.	2 - Considerable	No	8540

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
O'Connor Museum and pump station, Mundaring Weir Road	Mundaring	<p>MHI site 56 - The O'Connor Museum / No. 1 Pump Station is of very high social, historic, aesthetic and scientific significance, not only for the Shire of Mundaring and the State of Western Australia, but the engineering significance is also of National importance. This statement of significance also needs to be read in conjunction with the Mundaring Weir site no. 55. The pump station has:</p> <ul style="list-style-type: none"> • Social significance for the impact the construction of the Goldfields Water Supply had on the Mundaring community at the time of its construction at the turn of the century, and for the continuing impact on the lifestyle of people out in the Goldfields and agricultural land in between. • Historic significance for the impact the project had on the development of Western Australia and its associations with prominent people of the time including C. Y. O'Connor and Sir John Forrest. • Aesthetic significance for its industrial architecture and landmark value. • Scientific significance for the magnitude of its engineering achievement. 	1 - Exceptional	Yes	1677
Sculpture Park, Jacoby Street	Mundaring	MHI site 269 - The Mundaring Sculpture Park has very high aesthetic, social and historic significance for the State and the Shire of Mundaring for its unique arts concept, associations with prominent Local, State and Nationally recognised artists; and with the history of the railways.	1 - Exceptional	Yes	8577
Temuka (vet clinic) 7495 Great Eastern Highway	Mundaring	MHI site 26 - 'Temuka' has very high aesthetic, historic and social significance for its townscape value, particularly in the surrounding context of several other large houses, and in its use of weatherboard on a substantial residence; for its associations with Luhrs and as an example of adaptive use during the life of the Mundaring township.	2 - Considerable	No	8527
Old Parkerville School (Lot 259 Riley Road) and Headmasters House (Lot 255)	Parkerville	MHI site 72 - The old Parkerville Primary School has very high aesthetic significance, for its unusual design and high social and historic significance for having been built by the community and for its importance to the people of Parkerville.	2 - Considerable	No	8545

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Parkerville Children's Home, Roland Road/Beacon Road	Parkerville	MHI site 73 - The Parkerville Children's Home has very high social and historic significance for the people of the Mundaring community, former residents and the State generally for the role it has played in the care of children. The place is significant historically and socially for its approach to 'cottage care' for children long before it was appreciated as a better alternative than 'institutionalised' care. It also has important historic significance for its associations with public figures of the day such as Walter Padbury, Charles Harper, J.H. Worthington, and Sister Kate Clutterbuck. Many of the buildings have high aesthetic significance which are further complemented by their setting.	1 - Exceptional	Yes	8546
Parkerville Hall, 2055 Seaborne Street	Parkerville	MHI site 75 - The Parkerville Hall has high aesthetic, historic, social and townscape significance. It is a rare example in the Shire of its style and is a prominent focus in the townscape. The Hall was built by community support in 1922 and has continued to play a very important role in the life of the community.	2 - Considerable	No	1696
Parkerville Tavern, 6 Owen Road	Parkerville	MHI site 71 - The Parkerville Tavern has very high aesthetic significance for the style, scale and landmark value the building has which are rare both in the Townsite and the Shire generally. The Tavern also has high social significance for the role and focus the place has provided, and should continue to provide for Parkerville's community.	2 - Considerable	No	8544
Parkerville Store, 2170 Seaborne Street	Parkerville	MHI site 69 - The Parkerville General Store has high aesthetic significance for its contribution to the townscape character of Parkerville. It also has high social and historic significance as probably the oldest surviving store in the Shire in continuous use, and for its role in, and services provided to the community.	2 - Considerable	No	8543

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Jarrah Tree, Sawmills and Sawpit, State Forest	Sawyers Valley	MHI site 153 - The large jarrah tree and saw pit are important historically as a monument to the forest/timber industry that established the hills communities and the early days of the colony. It has very high social, historic and aesthetic significance for the Shire and the State as an illustration close to the city of what the early timber industry demanded of its workers. The size and scale of the tree has landscape significance and the potential to raise community awareness of the importance of our native forests environmentally and historically, illustrating the magnitude of what both the trees and the original forest must have been.	2 - Considerable	No	16616
Sawyers Valley School, Sawyers Road	Sawyers Valley	MHI site 155 - The Sawyer's Valley Headmaster's house has very high social and historic significance as possibly one of the oldest school quarters remaining in the Shire and as a typical example of a headmaster's house at the turn of the century.	2 - Considerable	No	8559
Sawyers Valley Tavern, 10860 Great Eastern Highway	Sawyers Valley	MHI site 230 - The Sawyers Valley Tavern has high aesthetic and social significance for the local community and the Shire of Mundaring. The aesthetic significance is highlighted by the building's Art Deco character that is unique in the Shire. The site also has historic significance as the location of Lot Leather's former store and hotel.	2 - Considerable	No	8576
Tamblyn Homestead, 2475 Stoneville Road	Stoneville	MHI site 164 - Tamblyn House has high aesthetic, social and historic significance for the Stoneville community and the Shire of Mundaring.	2 - Considerable	No	8560
Swan View Tunnel (part of Eastern Railway Deviation Entry), near Curve Road	Swan View	MHI site 178 - The Swan View railway tunnel has very high aesthetic, social, historic and scientific significance for the State and the Shire of Mundaring. As the only tunnel in the rail network of Western Australia it is significant for its rarity.	1 - Exceptional	Yes	2660
Travellers Arms Half-Way House, Lakes Roadhouse, 513 Great Southern Highway	The Lakes	MHI site 202 - The stone ruins of the old Travellers Arms (Inn) / Half-Way House have high social and historic significance to the Shire of Mundaring and the State of Western Australia for their associations with early travel, communication and settler's movement through the district with the opening up of the agricultural land to the east of Perth.	2 - Considerable	No	1684

Place Name / Location	Locality	MHI Place Record – Statement of Significance	Significance category	State Register	# inHerit database
Old Police Station, 5 Great Southern Highway	The Lakes	MHI site 206 - The old Lakes Police Station has high social and historic significance to the Shire and the State for its associations with the early settlement of the district and the opening up of agricultural lands to the east.	2 - Considerable	No	8569
St Francis Anglican Church, Werribee Road/ Government Road	Wooroloo	MHI site 183 - The St Francis Anglican Church has aesthetic significance for its contribution to the Wooroloo townscape.	2 - Considerable	No	8564
Wooroloo Cemetery, off Linley Valley Road	Wooroloo	MHI site 210 - The Wooroloo Cemetery has high social significance for the Shire, surrounding district and the State for its associations as the burial place for early families in the district and the tuberculosis sanatorium in the early half of the century.	1 - Exceptional	Yes	8571
Wooroloo Prison, Entrance Road/ Linley Valley Road	Wooroloo	MHI site 194 - The Wooroloo Prison/Sanatorium has very high aesthetic, social, historic and scientific cultural significance for the Shire of Mundaring and the State of Western Australia. Its setting, layout and design together with its very good condition and authenticity give it very high aesthetic significance. The sanatorium's role in the treatment of tuberculosis, and later its use as a prison all contribute to its very high social, historic and scientific significance. In addition, the extent and integrity of the site contributes to its rarity and representativeness as an example of a sanatorium/hospital and an illustration of the tuberculosis health care philosophy from the earlier part of the 20th Century.	1 - Exceptional	Yes	8566

10.3 Proposed Amendments to Structure Plan 71 - Lot 6 Helena Valley Road and Lots 9001 and 9002 Carabeen Avenue, Helena Valley - Recommendation to Western Australian Planning Commission

File Code	PS.TPS 4.3.071
Author	Andrew Bratley, Co-ordinator Strategic Planning
Senior Employee	Steve Trlin, Acting Director Statutory Services
Disclosure of Any Interest	Nil
Attachments	<ol style="list-style-type: none">1. Applicant's amended Structure Plan 71 report ↓2. Proposed Amended Structure Plan 71 ↓3. Current Structure Plan 71 ↓4. Concept subdivision plan ↓5. Bushfire Management Plan ↓6. Foreshore Management Plan ↓7. Urban Water Management Plan ↓8. Geotechnical Report ↓9. Schedule of Submissions ↓

PURPOSE

For Council to consider proposed amendments to Structure Plan 71 (SP71), and provide a recommendation regarding the amendments to the Western Australian Planning Commission (WAPC). Refer to **Attachments 1 and 2**.

BACKGROUND

Site Description

The areas affected by the proposed amendments are currently vacant and fall within SP71. Refer to **Attachment 3** and the locality plan on the following page.

Historically, it is understood that the north western portion of the SP71 area was previously used for the excavation of a clay deposit to supply a brick factory also located within the site boundary, from roughly 1979 until 1993. The pit created as a result of the clay extraction was backfilled. Investigations undertaken as part of SP71 concluded that there appears to be no significant contamination related impediments that could not be addressed during earthworks associated with a standard residential development.

The central portion of the subject area was excluded from SP71 due to concerns relating to uncontrolled landfill being previously deposited in this location. SP71 shows land use and development in this location being subject to further detailed geotechnical investigation (shown as note 1 on SP71).

The eastern portion of SP71, as well as adjoining areas further east and to the south, have been subdivided and redeveloped for residential purposes.

The Helena River is located immediately to the north within a Parks and Recreation Reserve under the MRS. Kardina Brook flows off from the Helena River and through the western portion of SP71.

Previous Relevant Decisions

In November 2016, SP71 was endorsed by the WAPC (refer to **Attachment 3**).

In December 2022, the Minister approved Metropolitan Region Scheme (MRS) Amendment 1379/57 resulting in portions of the SP71 area being rezoned from Rural to Urban under the MRS.

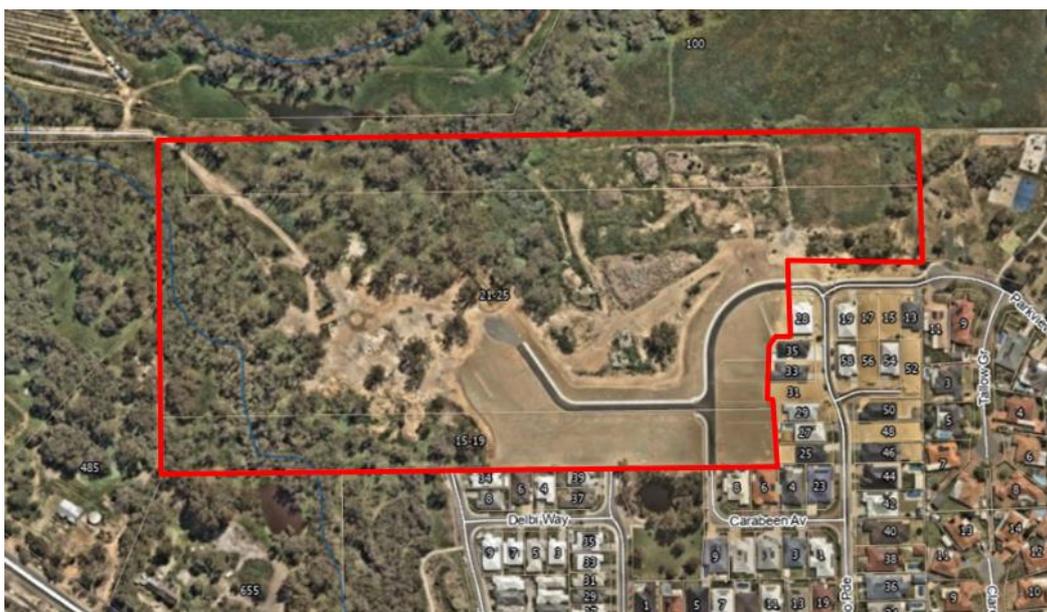
The MRS Amendment 1379/57 report (WAPC, September 2021) included advice received from the Environmental Protection Authority (EPA) which identified flora and vegetation, terrestrial fauna, inland waters and social surroundings as factors relevant to the subject area. The EPA confirmed that the proposed MRS amendment met the EPA's environmental objectives through existing planning mechanisms.

In December 2024, Council resolved (**C11.12.24**) to adopt Amendment No.21 to LPS4 which proposes to rezone the north-western portion of SP71 from Rural Residential to Development. The main objective of the Development zoning being to have comprehensive structure planning, and ensure that the LPS4 zoning is consistent with the site's current MRS Urban zoning.

Amendment No.21 is currently being advertised for comments and will be presented to a future Council meeting for consideration. Despite this, Council is able to consider the proposed amendments to SP71.

The statutory timeframes under the *Planning and Development (Local Planning Schemes) Regulations 2015* (LPS Regulations) have meant that it has not been possible to present Amendment No.21 and the proposed SP71 amendments to Council at the same time.

Structure Plan 71 Locality Plan



Details of the Proposal

The applicant seeks to:

- a) include the central portion of land within SP71, previously excluded, as 'Residential R20 and R30';
- b) change the central portion of land designated for 'Public Open Space / Drainage' to 'Residential R30';
- c) amend the north-western portion of SP71, from being 'Public Open Space / Drainage' and 'Rural Residential', to 'Recreation' and 'Residential R5 and R15'; and
- d) reduce the 'subject to future planning' area in the south-western portion of SP71, as the Reserve adjacent to the watercourse is proposed to be enlarged and used as public open space (POS). The 'subject to future planning' area which will remain potentially could be included in any future redevelopment of the neighbouring lots.

The amendments are as a result of geotechnical investigations having been completed in relation to the central portion of SP71. Also, due to the north-western portion of SP71 having been rezoned from Rural to Urban as part of MRS Amendment 1379/57.

A concept subdivision plan provided by the applicant (**Attachment 4**) indicates that the proposed amendments to SP71 would potentially result in 4 additional residential lots and POS in the north-western portion, and potentially up to 18 additional residential lots towards the central portion.

The applicant has advised that future staging of the SP71 area will be from east to west, with the final stages likely to be adjacent to the Kadina Brook foreshore area and in the north west of the SP71 area. The staging and creation of residential lots being subject to market forces.

STATUTORY / LEGAL IMPLICATIONS

Planning and Development (Local Planning Schemes) Regulations 2015

Schedule 2 Part 4 Clause 16 to 20 and 29 of the *Planning and Development (Local Planning Schemes) Regulations 2015* (LPS Regulations) outlines the process the Shire is required to follow upon receipt of an amended structure plan.

The LPS Regulations (Schedule 2 Part 4 Clause 16(1)(a) and (b)) require a structure plan to be prepared in the manner and form approved by the WAPC and include any maps, information and other material required by the WAPC.

Local Planning Scheme No.4

In accordance with LPS4, the following is the Development zoning objectives (with emphasis added):

“Development

*To provide for the orderly planning of large areas of land for residential and other purposes through **comprehensive structure planning** which will provide the basis for future subdivision and development.”*

Pursuant to LPS4 Schedule 12 'Requirements applying to specific Development Zones', under the DA1 scheme provision requirements, land uses will be determined in accordance with the Lots 2, 3, and 6 Midland Road, Helena Valley Local Structure Plan (now known as Lot 6 Helena Valley Road and Lots 9001 and 9002 Carabeen Avenue).

POLICY IMPLICATIONS

Operational Policy 1.1 Subdivision of Land – General Principles (WAPC)

Operational Policy 1.1 states that (with emphasis added) the WAPC will have regard to any **adopted** structure plan when considering subdivision applications submitted within an area covered by the structure plan.

WA Planning Manual – Guidance for Structure Plans (WAPC)

In accordance with the Guidance for Structure Plans document, depending on its nature and scale, a standard structure plan identifies a pattern for street blocks, roads, and open space together with proposed zones or land uses and public reserves, and major transport or utility infrastructure.

A standard structure plan is not intended to provide development guidance, but it can refer to the development (built form) outcomes the plan is intending to achieve. Also, it does not prescribe lot boundaries or sizes.

Community Engagement Policy

Having had regard to the “Community Engagement Policy” (CD-04), the consultation approach (refer to the External Consultation section of this report) ensured that those potentially affected, and the community generally, were informed and consulted.

The various Planning policies which apply to the proposal are outlined and discussed under the Comment section of this report.

FINANCIAL IMPLICATIONS

Amended SP71 has already been advertised in accordance with the LPS Regulations (refer to the External Consultation section of this report). The costs associated with advertising the proposal were met by the applicant in accordance with the Shire’s current Planning Fees Schedule.

In accordance with the LPS Regulations, an appeal can only be sought by the applicant on the WAPC’s determination of amended SP71 through SAT. In this scenario (and if invited) Shire Officers may attend the SAT to represent Council’s position, which would incur costs.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Priority 3 - Built environment

Objective 3.3 – Regulated land use and building control to meet the current and future needs of the community

The various Planning strategies which apply to the proposal are outlined and discussed under the Comment section of this report.

SUSTAINABILITY IMPLICATIONS

The subdivision and dwelling construction phase will generate a period of economic activity.

In regard to social benefit, the proposed POS will benefit both future and existing nearby residents. The SP71 layout provides POS in addition to the foreshore reserve.

RISK IMPLICATIONS

Risk: The site has previously been altered as a result of landfill activities. Not supporting amended SP71 would potentially not allow for the appropriate redevelopment of the area, thus not create the opportunity to rehabilitate and restore the key environmental values back into it, and not open up better public access to the Helena River foreshore area.

Likelihood	Consequence	Rating
Possible	Moderate	Moderate

Action / Strategy

This report recommends a conservative and balanced approach by basing its recommendation on an examination of the proposal against the relevant parts of the planning framework. It is recommended Council recommends to the WAPC that amended SP71 be approved subject to modifications which are discussed in the Comment section of this report.

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	✓
Website article/ post	✓
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	

EXTERNAL CONSULTATION

In accordance with Schedule 2 Part 4 Clause 18 of the LPS Regulations, the Shire was required to commence advertising the proposed amended SP71 within 28 days of accepting it. Advertising took place between 7 November and 19 December 2024 (being 42 days), and included:

- A notice in the local newspaper and online via the Shire's social media account;
- A notice and copy of the amended SP71 documents on the Shire's Engage Mundaring website, at the Shire's Administration Centre and at the Katharine Susannah Prichard Library (as this is located relatively close to the subject site);
- Letters being sent to nearby affected landowners;
- Notification being sent to the Department of Fire and Emergency Services (DFES), South West Aboriginal Land and Sea Council, Whadjuk Aboriginal Corporation, Water Corporation, Department of Water and Environmental Regulation (DWER), Department of Biodiversity, Conservation and Attractions (DBCA), Main Roads WA (MRWA), Department of Education, Western Power, Perth Transport Authority, and Department of Health; and
- Signs being placed adjacent to the subject site by the Shire inviting comment on the proposal.

During the advertising period 17 submissions were received. The concerns received were mostly in relation to traffic impacts, bushfire management, potential environmental impacts and site contamination. Refer to the schedule of submissions (**Attachment 9**) for a detailed outline of the comments received and the Shire Officer's response to each submission.

COMMENT

The following sections outline the extent to which the proposal addresses the State and local planning framework.

Proposed Residential Density Codings

The subject lots partially fall within Precinct 11 of the Shire's Foothills Growth Strategy (FGS). The FGS states that subdivision design and development within Precinct 11 should make provision for medium density residential. The proposal would not result in density codings which exceed what is stipulated under the FGS.

Site Contamination

The DWER is responsible for the monitoring and enforcing of contaminated sites under the *Contaminated Sites Act 2003*.

The central portion of the subject area was excluded from SP71 due to concerns relating to uncontrolled landfill being previously deposited in this location. SP71 shows land use and development in this location being subject to further geotechnical investigation.

Under **Attachment 8** is a Geotechnical Report provided by the applicant in relation to the areas of SP71 concerned. No concerns were raised by the DWER and the Department of Health regarding the proposed amendments to SP71.

The DWER is currently in discussions with the landowner regarding a Remediation Action Plan for the site, the actions from which will need to be undertaken prior to any future works being carried out.

The DWER and Shire Officers shall continue to work with the landowner to ensure that any material stored on site is appropriately fenced for public safety, and is removed prior to any works commencing within the central portion of SP71.

Concept Subdivision Plan

Shire Officers and Council are being asked to consider proposed amendments to an existing structure plan. Whilst due regard is to be given to the number of proposed lots, a recommendation on the proposed subdivision plan is **not** required to be provided to the WAPC at this stage.

The State and local planning framework (the LPS Regulations, LPS4, the WAPC's Operational Policy 1.1, and the WA Planning Manual) do not specifically require a concept subdivision plan to be provided and considered as part of a structure plan proposal.

Subdivision plans are dealt with under a separate process in accordance with Part 10 of the *Planning and Development Act 2005*, which involves the WAPC referring proposed subdivision plans to the Shire as part of the assessment process.

Despite the above, it is noted that there is the potential for some of the lots shown on the concept subdivision plan (**Attachment 4**) to become battleaxe lots, being proposed Lots 122 and 123.

It is considered that battleaxe lots often result in inferior urban design outcomes, with adverse impacts on privacy, residential amenity and emergency access/egress. Accordingly, LPS 4 includes a provision indicating the Shire will not support a subdivision where battleaxe lots are proposed, unless any alternative subdivision layout without battleaxe lots is rendered impractical by the shape or topography of the land or other factor(s), or there is an overriding benefit in terms of reduced environmental impact or improved traffic circulation which outweighs the adverse impacts of the proposed battleaxe lot(s).

The proposed lots which could potentially become battleaxe lots (Lots 122 and 123) have a relatively flat topography and are not shown to be irregular in shape. There is also no overriding benefit in terms of reduced environmental impact or improved traffic circulation in relation to them possibly becoming battleaxe lots.

In addition, as advised in the DFES submission, *“in bushfire prone areas battleaxe lots should only be considered where it is demonstrated that they cannot be avoided due to site constraints. The BMP has not identified any site or design constraints nor provided justification for the need of battle-axe legs”*.

Considering this, should amended SP71 be supported by Council, the WAPC and the applicant should be advised that the Shire will not support any battleaxe lots should they be proposed as part of any future subdivision application.

Bushfire Management

State Planning Policy 3.7 – Planning in Bushfire Prone Areas sets out policy measures that apply for developments in identified bushfire prone areas under the DFES State Map of Bushfire Prone Areas. As the subject site is located within an identified bushfire prone area, a Bushfire Management Plan (BMP) has been prepared to inform structure planning and the Shire referred the proposal to DFES for comments.

As a result of initial concerns raised by DFES a revised BMP was received which was referred to DFES for further comments. The latest comments subsequently received are discussed below.

Management of Public Open Space

Having had regard to the latest comments received from DFES in relation to the revised BMP, SPP3.7 and the associated *Planning for Bushfire Guidelines*, the Shire’s Community Safety and Emergency Management department is satisfied that the proposal mostly addresses the bushfire legislation requirements. Its only concern is how the Shire will be able to access the proposed POS (outlined in red below) to ensure that the vegetation can be managed to low threat status. DFES also advised in its submission that it is unclear how the POS could be maintained as low threat status.

At present the amended SP71 shows this POS being land locked as a result of being surrounded by Regional Reserves and future residential sites.



If amended SP71 is supported by Council, it is recommended that it be subject to SP71 being modified to show the proposed POS concerned being linked with the foreshore reserve (POS) to the west. The applicant has not raised any concerns regarding this, and has suggested that the linkage being provided through the northern portion of proposed Lot 89 (refer to **Attachments 2 and 4**).

Linking the above POS to the foreshore reserve will likely result in the area of Lot 89 being less than the required minimum lot size for its current R5 coding, the required size being 2,000sqm as per the Residential Design Codes. Therefore the applicant is proposing to change the coding of Lot 89 from R5 to R15 (a required minimum lot size of 580sqm).

In principle Shire Officers have no concerns to the proposed R15 coding for Lot 89 as it would allow for the POS to be maintained to a low threat status, and not result in an increase in the number of residential lots compared to what is currently proposed.

The width and final location of the POS linkage will be subject to engineering design, to avoid trees and work with the terrain, in liaison with the Shire's Community Safety and Emergency Management department.

Vehicular Access

DFES raised concerns relating to vehicular access. In response, the following is advised:

Proposed no-through road (cul-de-sac) and access routes

A relatively short cul-de-sac is proposed which would provide vehicle access to 4 lots in the north-western portion of SP71. No other no-through roads are shown as part of the current proposal.

The no-through road concerned is less than 200m in length, and therefore complies with SPP3.7. The Shire's Community Safety and Emergency Management department considers it to be acceptable in this circumstance.

A perimeter road is not considered necessary by Shire Officers in this circumstance, given that the abutting land is able to be developed and maintained to a low threat standard (subject to the POS being easily accessible as discussed above).

Figure 7 of the BMP shows that if a bushfire event was to occur the existing public road network leads to multiple destinations, which is considered acceptable by the Shire's Community Safety and Emergency Management department.

The potential for battleaxe lots

As discussed in the Concept Subdivision Plan section of this report, there is the potential for proposed Lots 122 and 123 to become battleaxe lots. Should amended SP71 be supported by Council, the WAPC and the applicant should be advised that the Shire will not support any battleaxe lots should they be proposed as part of any future subdivision application.

Draft Helena Valley Masterplan

Despite being a conceptual plan, regard should be given to the draft Helena Valley Masterplan. Based upon the details provided by the applicant, whilst being within close proximity, the amendments to SP71 are unlikely to directly impact the informal/overflow parking area and future sports club rooms and grounds proposed to be nearby (shown as 5 and 7 on the image which follows).

Helena Valley Recreation Precinct Concept Plan



The proposed amendments to the central portion of SP71 fall within the area shown to be 'land use and development subject to further detailed geotechnical investigation' (note 1 on SP71 – refer to **Attachments 2 and 3**). The future sports club rooms and grounds are proposed to be within the area to the north of this, shown to be a Parks and Recreation Reserve on SP71.

The proposal will allow for north-south pedestrian access through the area, thereby open up public access to the Helena River foreshore area. This being in accordance with the draft Helena Valley Masterplan.

As outlined in the following sub-section of this report, the proposed amendments to SP71 will allow a compliant amount of POS to be provided.

Proposed Public Open Space

Measures for Precinct 11 of the FGS include, amongst others, consider augmenting POS with the foreshore reserve, facilitate access to Helena River, and provide passive surveillance onto reserves.

There is currently no public parkland within the SP71 area. The amended SP71 makes provision for approximately 16% POS, which is more than the minimum 10% requirement under Liveable Neighbourhoods and Development Control Policy 2.3 – Public Open Space in Residential Areas. The proposed POS adjacent to the Kadina Brook foreshore provides for the majority of the POS requirement.

The areas of POS are considered by Shire Officers to be of a suitable size and dimensions to be of practicable use in accordance with the WAPC's Liveable Neighbourhoods Policy.

Local Development Plans will be required to be prepared and implemented pursuant to LPS Regulations for lots abutting areas of POS to ensure that future development is appropriately located and allows for adequate surveillance of the POS.

As mentioned previously in this report, the proposal will allow for north-south pedestrian access through the area, thereby open up public access to the Helena River foreshore area. This being in accordance with the draft Helena Valley Masterplan.

Watercourse Protection

The Shire's Watercourse Hierarchy Strategy developed in conjunction with its Local Biodiversity Strategy includes a principle to *'focus on protecting and rehabilitating ecological function and biodiversity along watercourse corridors, especially through urban and rural residential areas'*.

In accordance with the Shire's LPS4, future residential development will be required to be setback at least 20m from the embankment of the nearby watercourse. Based upon the details provided, future development should be able to comply with this requirement.

In addition, State Planning Policy 2.10 – Swan-Canning River Policy provides the regional framework to guide the preparation of plans based on precincts which are identified within the Swan River System Landscape Description, as well as ensuring that activities, land use and development maintains and enhances the health, amenity, and landscape values of the river. Appropriate planning and management measures will be investigated and determined at the subdivision stage to manage any impacts from urban development on the subject site to the Swan-Canning River system.

Based upon the details provided, Kadina Brook will remain in its present natural form.

Natural Vegetation

The Shire's Local Biodiversity Strategy 2023-2030 shows a local wildlife corridor going through the subject area. None of which is proposed to become Residential under SP71.

Removal of some vegetation on those lots proposed to become Residential under SP71 would be anticipated should the creation of the lots be approved. Although the vast majority of this vegetation is not identified as LNA, vegetation generally has scenic and environmental value, particularly given its proximity to Helena Valley foreshore reserve. A tree retention plan is likely to be required at the subdivision stage should amended SP71 be approved by the WAPC.

It is also important to note that while some vegetation loss would occur on some parts of the property, weed removal and revegetation would occur on those parts identified for POS.

Development of the site would lead to the environmental restoration of Kadina Brook and is the key to providing a continuous ecological linkage from the Parks and Recreation reservations north of the subject properties, across Helena Valley Road to the southern extent of the Shire's municipal boundaries through the existing and proposed POS.

Ecological restoration would support the hills lifestyle by affording opportunities for recreation in bushland and improving the visual amenity of Helena Valley.

No concerns were raised by the DWER in relation to any potential impact on the area's natural vegetation during the advertising of the proposed amendments to SP71.

Aircraft Noise

State Planning Policy 5.1— Land Use Planning in the Vicinity of Perth Airport Policy (SPP5.1), guides development to protect Perth Airport from incompatible development, as well as minimise the impact of aircraft noise from airport operations on existing and future communities.

The subject site is located within ANEF 20-25 aircraft noise contours. Under SPP5.1 this means that zoning and associated development controls are required to consider the level of aircraft noise exposure forecast.

The proposal is considered acceptable under SPP5.1 due to the land being identified as appropriate for more intensive development through strategic planning instruments (e.g. the North-East Sub-Regional Planning Framework). Also houses are not considered to be an unacceptable type of land use within ANEF 20-25 aircraft noise contours under SPP5.1.

Street Trees

A measure for Precinct 11 of the FGS is to retain existing trees (where possible) and incorporate verge trees.

The Shire's Street Trees Local Planning Policy (PS-08) seeks to:

“increase the tree canopy cover within the Shire's road reserves and mitigate the urban heat island effect, support biodiversity and enhance the character and amenity of local streets; and

...outline the Shire's expectations in relation to proposals requiring or impacting upon street trees within Shire managed road reserves”

Policy measure 3.1 requires that new roads are a minimum of 16m in width, to provide sufficient space within the verge for street trees on both sides of the street.

The proposed amended SP71 identifies the main internal road network, whereby roads are proposed to intersect with the existing and planned adjacent road network, to provide key access and egress points for the development. However, neither SP71, the applicant's report or the concept subdivision plan indicate the proposed road reserve widths.

If amended SP71 is supported by Council, it is recommended that it be subject to SP71 being modified to show the proposed roads being 16m in width to incorporate new street tree planting as per the Shire's Street Trees LPP.

The street trees would be required as part of the subdivision works. The number and placement would depend on the situation (eg. services, paths) noting that the LPP encourages the retention of existing mature vegetation within the verge wherever possible.

Traffic

With regard to traffic volumes resulting from the proposal should the amendments to SP71 be approved by the WAPC, the applicant has advised the following:

- *“The original WAPC approved structure plan contained an estimated 67 dwellings. The current proposed structure plan (amendment) contains an estimated yield of 92 dwellings. The additional 25 dwellings (now 18 dwellings) is not a significant increase in traffic to the local road network.*
- *The additional dwellings will not adversely impact the local road network or require any road upgrades to accommodate the additional 25 dwellings. This is because the structure plan area has multiple alternative routes of egress/access via Parkway View Gardens, Melita Drive, Carabeen Avenue and Tuckeroo Parade, which allow for the increased distribution of the traffic.*
- *The existing roundabout at Helena Valley Rd/Allamanda Gate intersection and intersection configuration at Helena Valley Rd/Lakeside Drive are well designed and sufficient to accommodate the additional 25 dwellings, without the need for any subsequent intersection upgrades.”*

The Shire’s Infrastructure Services advised that while an increase in traffic volume would be expected by the creation of additional lots, the anticipated traffic volumes and the road designs meet the relevant safety and design standards.

No concerns were raised by MRWA during the advertising of the proposed amendments to SP71.

Other Matters

During the advertising period concerns were raised in relation to the following matters:

Potential Impacts from Dust

Landowners are responsible for preventing sand or dust causing a nuisance, regardless whether it affects private land or Shire land. Should the proposal be approved by the WAPC, any subsequent subdivision and/or development approval may be conditioned to require a dust management plan. Such measures to address dust may include applying water or hydro mulching.

Potential Impacts on Aboriginal Sites

Should the proposal be approved by the WAPC, prior to any works commencing consent will need to be obtained (where necessary) by the landowner from the Minister in accordance with Section 18 of the *Aboriginal Heritage Act 1972*. This being a separate process to the structure plan process under the LPS Regulations.

Considering the above, it is recommended that Council recommends that amended SP71 be approved with modifications.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council:

1. In accordance with Schedule 2 Part 4 Clause 20 (2) of the *Planning and Development (Local Planning Schemes) Regulations 2015*, recommends that the Western Australian Planning Commission approves amended Structure Plan 71 (**Attachment 1**) with the following modifications:
 - a. The road reserves being made 16m in width in order to incorporate new street tree planting as per the Shire's Street Trees Local Planning Policy (PS-08).
 - b. The proposed public open space adjacent to the eastern boundaries of Lots 86 to 89 being linked with the foreshore reserve (public open space) to the west. This would then enable the Shire to access the public open space and maintain to a low threat standard in accordance with AS3959.
2. Advises the applicant and the Western Australian Planning Commission, that support of amended Structure Plan 71 should not be construed as meaning that the Shire would support any battle-axe lots proposed as part of any future subdivision application.



Lots 2, 3 and 6 Midland Road Helena Valley
Structure Plan (Amendment No.1)

October 2024

We acknowledge the custodians of this land, the Whadjuk Nyoongar and their Elders past, present and emerging. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

Document ID:					
Issue	Date	Status	Prepared by	Approved by	
			Name	Name	Signature
1	21.10.24	Final	Hannah Lee	Justin Page	

This report has been prepared for the exclusive use of the Client, in accordance with the agreement between the Client and Element Advisory Pty Ltd (**element**) ('Agreement').

element accepts no liability or responsibility whatsoever in respect of any use of or reliance upon this report by any person who is not a party to the Agreement or an intended recipient.

In particular, it should be noted that this report is a qualitative assessment only, based on the scope and timing of services defined by the Client and is based on information supplied by the Client and its agents.

element cannot be held accountable for information supplied by others and relied upon by **element**.

Copyright and any other Intellectual Property arising from the report and the provision of the services in accordance with the Agreement belongs exclusively to **element** unless otherwise agreed and may not be reproduced or disclosed to any person other than the Client without the express written authority of **element**.

This document is in a draft form and not a final issued form. **element** reserves the right, at any time with or without notice, to amend, modify or retract any part or all of this document including any opinions, conclusions, or recommendations contained therein. Unauthorised use of this draft document in any form whatsoever is strictly prohibited. To the maximum extent permitted by law, **element** disclaims any responsibility for liability whatsoever arising from or in connection with this draft document.



Contents

- Table of Amendments to Structure Plan 1
- Executive Summary 2
- Part One – Implementation 3
 - 1. Structure Plan Area..... 3
 - 2. Operation 3
 - 3. Staging..... 3
 - 4. Subdivision and Development Requirements 3
 - 4.1 Land Use and Permissibility..... 3
 - 4.1.1 Zones 3
 - 4.1.2 Road Reserves 3
 - 4.1.3 Public Open Space..... 4
 - 4.1.4 Area Subject to Future Planning..... 4
 - 4.2 Residential Density 4
 - 4.3 Notifications on Title..... 5
 - 5. Local Development Plans 5
 - 6. Other Requirements..... 5
 - 6.1 Additional Details 5
 - 6.1.1 Information to be submitted with an application..... 5
- Part Two – Explanatory Section..... 7
 - 1. Introduction 7
 - 2. Amendment No. 1 9
 - 3. Planning Framework 10
 - Zoning and Reservations..... 10
 - 4. Residential Yield and Densities 11
 - 5. Public Open Space 13
 - 6. Bushfire Management..... 16
 - 7. Stormwater Management..... 16
 - 8 Servicing 17
 - 9. Staging 17

Table of Amendments to Structure Plan

Amendment No.	Description of Amendment	Amendment Type	Dated Endorsed by WAPC
1	<p>Inclusion of central portion of land previously excluded from structure plan boundary as 'Residential R20' and 'Residential R30'.</p> <p>Transfer of central portion of land from 'Public Open Space / Drainage' to 'Residential R30'.</p> <p>Transfer of western portion of land from 'Public Open Space / Drainage', 'Development' and 'Rural Residential' to 'Recreation', 'Residential R5 & R15' and subject to future planning.</p> <p>Transfer portion of 'Development' in south-west area to 'Recreation' to accommodate the Kadina Brook foreshore area with balance area as 'Subject to Future Planning'.</p>	Major	

Executive Summary

The *Lots 2, 3 & 6 Midland Road Helena Valley Structure Plan* (approved LSP) was endorsed by the Western Australian Planning Commission (WAPC) on 3 November 2016, of which provides guidance for the planning and use of the land within the structure plan area. The approved LSP provides for a mix of low-density residential land use, areas of public open space for recreation and natural areas set aside as foreshore for the protection of Kadina Brook.

Amendment No. 1 to the approved LSP seeks to include the central portion of land, previously excluded from the structure plan, as 'Residential R20 and R30' and to change the central portion of land designated for 'Public Open Space / Drainage' to 'Residential R30'. A portion in the north-west of the structure plan land is proposed to be amended from 'Public Open Space / Drainage', 'Development' and 'Rural Residential' to 'Recreation', 'Residential R5 & R15'. The portion in the south-west of the structure plan area will remain as 'subject to future planning', given this area potentially can be included in the development of neighbouring lots.

The amendment is the result of two planning considerations, the first being a completion of geotechnical investigations in relation to the central portion of land, which now identifies the land as being suitable for urban development following remediation. The second is the rezoning of the north-western portion of the structure plan area under the Metropolitan Region Scheme (MRS) under Amendment 1379/57 from 'Rural' to 'Urban' zone.

The amended structure plan area incorporates the recent MRS urban zoned land and the central portion that was previously subject to further investigation (i.e. geotechnical and remedial studies). These are now proposed for urban development. The following is a summary of the proposed structure plan.

Executive Summary Table

Item	Data	Structure Plan Reference
Total area covered by Structure Plan	13,233 ha	Section 4
Area of each land use proposed:		
- Residential	4,849 ha	Section 4
Total estimated lot yield	92	Section 4
Estimated number of dwellings	92	Section 4
Estimated residential site density	19 dwellings per hectare ¹	Section 4
Estimate population (@2.8 persons/dwelling)	258 persons	Section 4
Estimated Public Open Space:		
- Regional Open Space (ROS)	3,281 ha	Section 5
- Public Open Space (POS)	1.26 ha (~ 16%)	
Kadina Brook and foreshore reserve	1,596 ha	Section 5
Notes:		
1. 'Residential Site Hectare' refers to the definition under Element 1 of WAPC's <i>Liveable Neighbourhoods</i> . Calculation excludes roads and public open space.		

Part One – Implementation

1. Structure Plan Area

The Structure Plan is identified as the *Lots 2, 3 and 6 Midland Road Helena Valley Structure Plan*, (plan reference 20-088 CP-5). This structure plan shall apply to the land contained within the inner edge of the line denoting the structure plan boundary on the Structure Plan Map.

2. Operation

The structure plan is in effect from the date it is approved by the Western Australian Planning Commission as stated on the approval page and for a period of 10 years.

3. Staging

Future staging of the structure plan area will be from east to west with the final stages likely to be adjacent to the Kadina Brook foreshore area and in the north west of the structure plan area. The staging and creation of residential lots will be subject to market forces.

4. Subdivision and Development Requirements

4.1 Land Use and Permissibility

4.1.1 Zones

The structure plan outlines the Zones and Reserves applicable within the structure plan area and these will guide future subdivision and development of the land. Land use permissibility within the structure plan area shall generally be in accordance with the corresponding Zone and/or Reserve under the Shire of Mundaring Local Planning Scheme No. 4 (LPS 4).

4.1.2 Road Reserves

The Structure Plan Map identifies the main internal road network, whereby roads are proposed to intersect with the existing and planned adjacent road network, to provide key access and egress points for the development. Access Streets shall make up the lower order roads in the road hierarchy. All road reserve widths shall be consistent with the requirements of Liveable Neighbourhoods.

4.1.3 Public Open Space

A minimum of 10% public open space in accordance with WAPC Liveable Neighbourhoods is required at the time of subdivision and/or development. The location for public open space is generally shown in the structure plan map. The final design of public open space is subject to detailed design.

Public Open Space Schedule

	Ha	Ha
Total Site Area (ha)		13.233
Deductions		
Kadina Brook Foreshore Reserve	1.596	
Dedicated Drainage 1:1yr ARI (basin)	0.081	
MRS Regional Open Space	3.281	
Special Residential (R5)	0.214	
Balance Lot (SW corner)	0.172	
Total Deductions		5.344
Gross Subdivisible area		7.889
Required POS (10%)		0.789
Breakdown of POS Provided May comprise:		
- minimum 80 per cent unrestricted POS	0.631	
- Maximum 20 per cent restricted use POS	0.158	
Restricted Public Open Space provided Nil		
Total Restricted POS Credited to a maximum of 20%		0.0
Unrestricted Public Open Space provided		
Local Park area adjacent to Kadina Brook foreshore		0.964
Local Park areas adjacent to regional open space		0.297
Total Unrestricted POS		1.261
Provided POS (16%)		1.26

4.1.4 Area Subject to Future Planning

The Structure Plan does not apply to the area identified as 'Subject to Future Planning' on the Structure Plan Map. This area forms part of the balance area of the main urban development. The future use of this land will be subject to further investigations and will likely form part of development of neighbouring land.

4.2 Residential Density

Residential densities applicable to the Structure Plan area shall be those residential densities shown on the Structure Plan map.

4.3 Notifications on Title

In respect of applications for the subdivision of land the Shire of Mundaring shall recommend to the Western Australian Planning Commission that a condition be imposed on the grant of subdivision approval for a notification to be placed on the Certificate(s) of Title(s) to advise of the following:

- a) Land or lots deemed to be affected by a Bushfire Hazard.
- b) Lots affected by Aircraft Transport noise

5. Local Development Plans

Local Development Plan(s) are required to be prepared and implemented pursuant to the provisions of the Planning and Development (Local Planning Schemes) Regulations 2015, for lots with the following site attributes:

- a) Lots abutting areas of Public Open Space;
- b) Corner lots so as to determine the suitable location of vehicular access and garage(s).

6. Other Requirements

6.1 Additional Details

The following additional details for subdivision/development shall be submitted at later stages of planning.

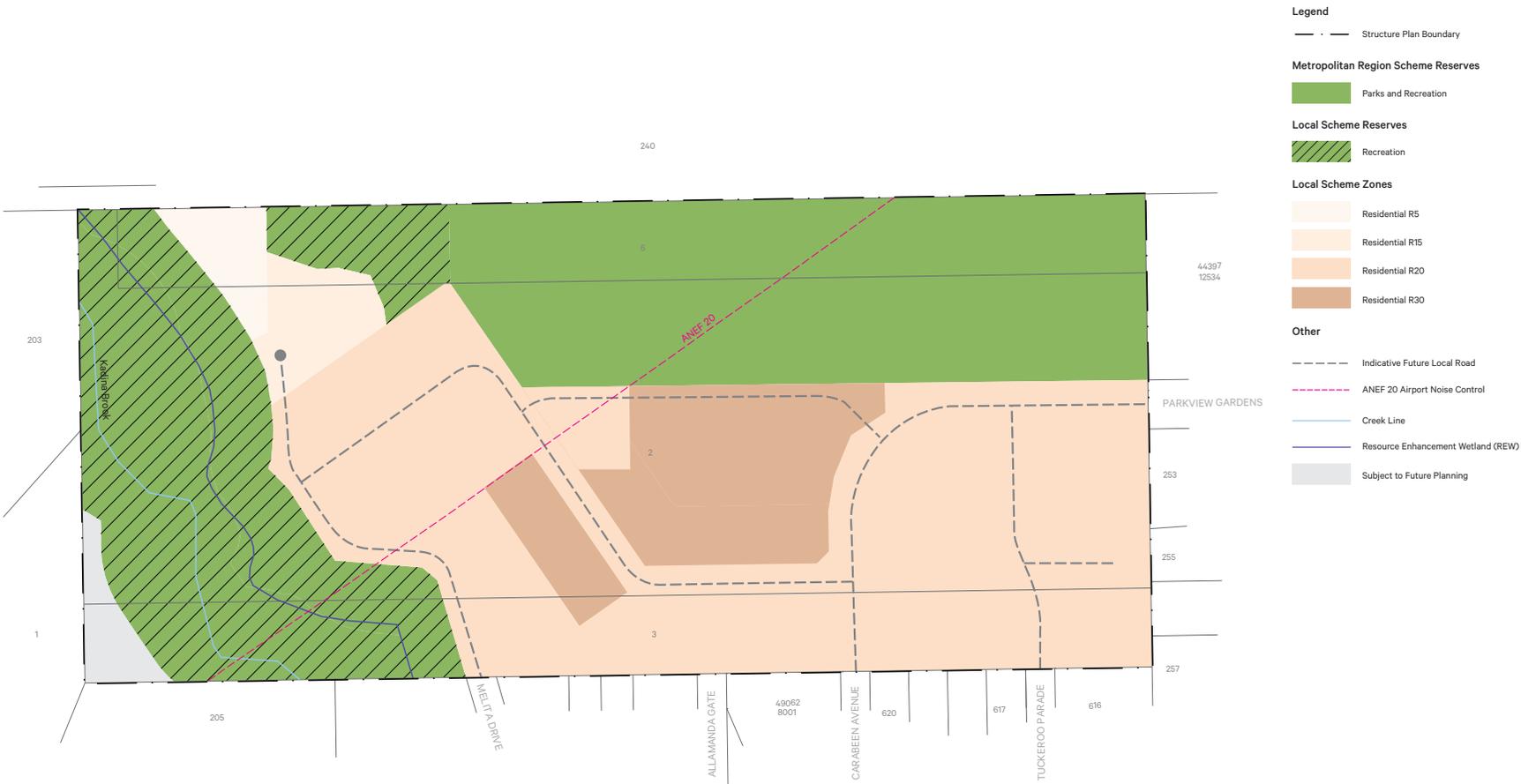
6.1.1 Information to be submitted with an application

Additional Information/purpose	Approval Stage	Responsible Authority (consultation required)
Bushfire Management Plan	Subdivision	Shire of Mundaring

Conditions of subdivision/development approval	Responsible Authority
Preliminary Site Investigation (PSI) and if required a Detailed Site Investigation (To address any potential contamination from historical land use)	Shire of Mundaring Department of Environment and Regulation
Bushfire Management Plan	Shire of Mundaring
Foreshore Management Plan	Shire of Mundaring Department of Biodiversity and Attractions



Local Development Plan(s)	Shire of Mundaring
Urban Water Management Plan	Shire of Mundaring Department of Environment and Regulation
Mosquito Management Plan	Shire of Mundaring



Lots 2, 3 and 6 Midland Road Structure Plan

Date: 1 Aug 2024 Scale: 1:2000@ A3 1:1000 @ A1 File: 20-088 CP-5 Staff: JP MT GW Checked: JP



Level 16, 191 St Georges Terrace, Perth Western Australia 6000.
 PO Box 7275 Cloisters Square, Perth Western Australia 6850.
 T: +61 8 9289 8300 | E: hello@elementwa.com.au | elementwa.com.au

Part Two – Explanatory Section

1. Introduction

The *Lots 2, 3 & 6 Midland Road Helena Valley Structure Plan* was originally endorsed by the Western Australian Planning Commission (WAPC) on 3 November 2016 to guide the residential subdivision and development of the land. The development is known as **Allamanda Vista**, a residential estate set in Perth's foothills located approximately half an hour from Perth CBD.

Subdivision and development has occurred within original Lots 2 & 3 since the approval of the structure plan. The Western Australian Planning Commission endorsed subdivision WAPC 156909, which has led to the creation of the first stages of residential lots in the eastern portion of the structure plan and balance lots for the original Lots 2 & 3. Further subdivision stages are under construction west of the initial first stage area. Residential single dwellings have been constructed on the first stage lots in the west – refer to **Figure 1**.

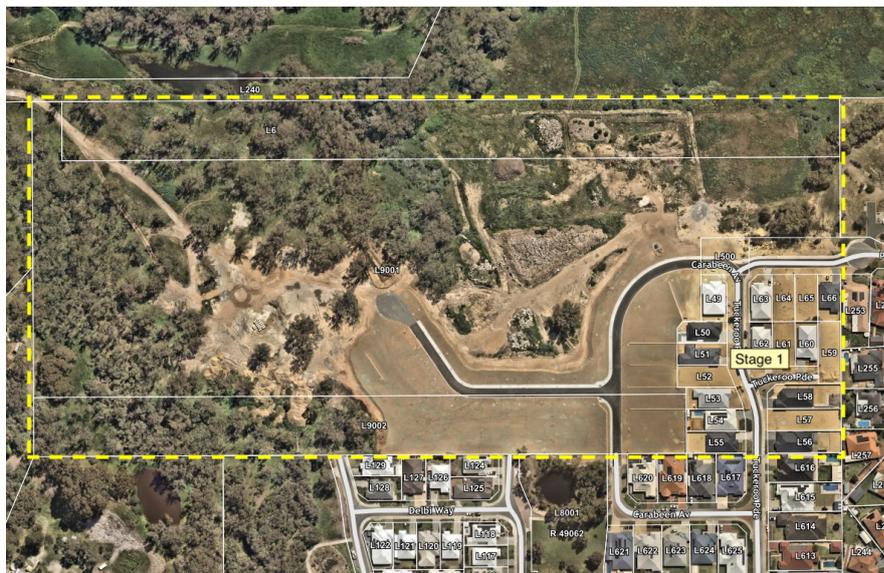


Figure 1. Aerial showing first stage of subdivision completed in western portion with dwellings constructed on the new lots.

Amendment No. 1 to the Structure Plan seeks to include the central portion of land, previously excluded from structure plan, as 'Residential R20 and R30' and to change the central portion of land designated for 'Public Open Space / Drainage' to 'Residential R30'. A portion in the north-west of the Structure Plan land is proposed to be amended from 'Public Open Space / Drainage', 'Development' and 'Rural Residential' to 'Recreation', 'Residential R5 & R15'. The portion in the south-west of the structure plan area will remain as 'subject to future planning', given this area potentially can be included in the future urban development of neighbouring lots.

Figure 2 shows the areas of the original structure plan proposed in Amendment No. 1.



Figure 2. Amendment No. 1 areas (shown dotted red) of the existing approved structure plan

The structure plan (as amended) will continue to provide the primary statutory framework for determining future land uses, design and implementation of the desired planning outcomes. These will inform the planning decision making for future subdivision and development approvals for the structure plan area.

2. Amendment No. 1

The amendment follows the completion of detailed geotechnical investigations by the landowner in relation to the central portion of land and the rezoning of the north-western portion of the structure plan area under Metropolitan Region Scheme *Amendment 1379/57*.

The structure plan amendment is the result of two planning outcomes, the first being a completion of geotechnical investigations in relation to the central portion of land, which now identifies the land as being suitable for urban development. The second is the rezoning of the north-western portion of the structure plan area under the MRS Amendment 1379/57 from 'Rural' to 'Urban' zone. The amended structure plan area incorporates the recently MRS urban zoned land and the central portion previously subject to further investigation and proposes a consolidated urban development.

The original approved structure plan was supported by various technical reports and planning justification, which were provided in the approved original 2016 structure plan documentation. Rather than duplicate this information, which remains relevant in part, the WAPC approved *Lots 2, 3 & 6 Midland Road Helena Valley Structure Plan 2016* (refer to **Appendix 1 – Original Approved Structure Plan**) should be read in conjunction with this Amendment 1 structure plan rationale and information.

3. Planning Framework

Zoning and Reservations

Metropolitan Region Scheme

Lot 3 Midland Road, Helena Valley is wholly located within the 'Urban' zone of the *Metropolitan Region Scheme* (MRS). The majority of Lot 2 Midland Road, Helena Valley is also zoned 'Urban', including the north-western portion which was recently transferred from 'Rural' under Proposal 10 of Amendment 1379/57 to the MRS. Similarly, the western portion of Lot 6 Midland Road, Helena Valley has been rezoned from 'Rural' to 'Urban' under Proposal 10 of Amendment 1379/57 to the MRS. The remaining portions of Lot 2 and 6 are reserved for 'Parks and Recreation'.

Shire of Mundaring Local Planning Scheme No. 4

Under the Shire of Mundaring Local Planning Scheme No. 4 ('LPS 4'), the subject site is zoned 'Development'. The portion of the structure plan area that was rezoned under the MRS to urban is currently zoned 'Rural Residential' under LPS 4. As this area was originally part of the structure plan, pursuant to Clause 5.17.2.1(c) of LPS 4, this area is included in the structure plan and is identified for Residential and Recreation use. The portion of the 'Flood Fringe' mapping affecting the structure plan area in the northern portion is within the Recreation use and does not impact residential land.

A local scheme amendment to LPS 4 is being progressed concurrent with this structure plan amendment. The scheme amendment will rationalise the LPS 4 'Rural Residential' zone to 'Development - DA1' zone.

4. Residential Yield and Densities

A Concept Plan (refer to **Figure 3** and enlarged version in **Appendix 2 – Indicative Subdivision Concept Plan**) provides an indicative lot layout for potential urban development of the subject site under the Structure Plan. The concept plan shows a mix of lot sizes which can potentially accommodate 92 single dwellings. Lots sizes range from 2,140m² (R5 density) to 300m² (R30 density).

The central portion contains R20 and R30 density lots which will provide for generally 450m² lots at 15m x 30m. Lots are orientated towards the regional open space with a road interface. This is consistent with the principles of Liveable Neighbourhoods, whereby residential interaction is desirable around areas of high amenity, such as public open space.

A lower density (R5 – R15) is proposed in the north-west portion due to the steep natural topography and desire to create larger lots which transition towards the rural residential land use neighbouring to the west.

Two large lots in the central portion with a density of R30 are provided with the final subdivision design to be determined at the subdivision approval stage. A battleaxe configuration has been indicatively shown in the technical reports as one example of how these lots could be developed. However, under the R30 density potential dwelling typologies that could be considered at the detailed subdivision stage for these two large lots include:

- Grouped dwellings (strata with a common property accessway); or
- Aged accommodation; or
- Green title or survey strata battleaxe lots with reciprocal easement shared driveways.

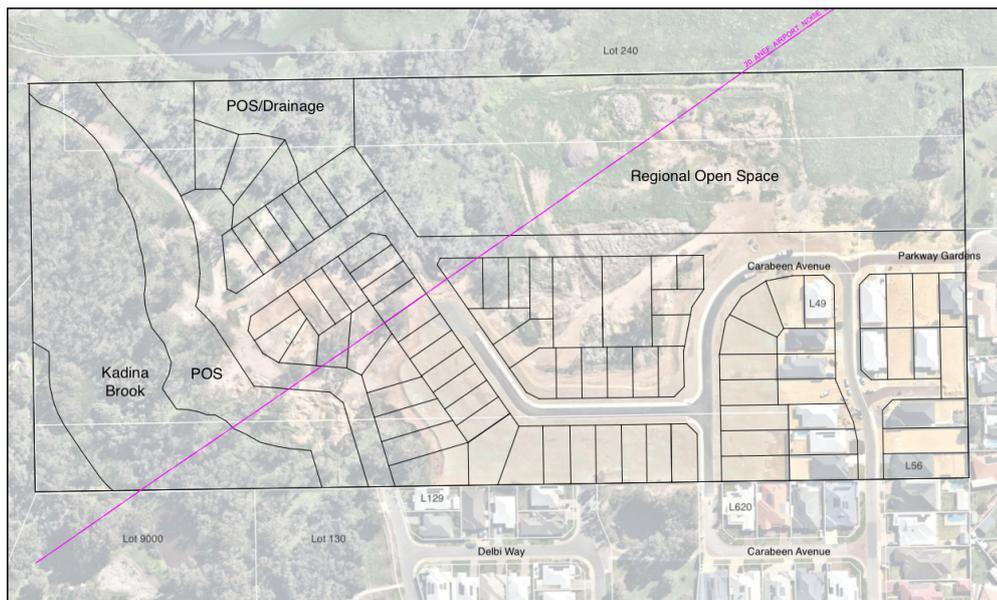


Figure 3. Indicative subdivision concept plan noting that lots shown are indicative only and subject to final detailed design and WAPC subdivision approval, except for lots already constructed (refer to Appendix 2 for enlarged version).

The development concept plan could accommodate up to approximately 258 people, based on an average household of 2.8 persons for 92 lots, with '4-packs' being developed for each of the two large R30 lots in the central area. The final lot yield and design would be determined as part of detailed subdivision at later stages of planning, including the dwelling typologies.

Table 1 provides an overview of development statistics based on the concept plan. Although the concept plan is indicative only at this structure plan level of planning (and not the subject of approval), the structure plan technical reports have been based on the concept plan. The concept plan provides a point of reference to demonstrate the capability of the proposed structure plan design over the subject site.

Table 1 demonstrates that the structure plan design can deliver approximately 19 dwellings per site hectare, which meets the Liveable Neighbourhoods density expectations for the site's locational context.

The actual density of 7 dwellings per gross urban hectare does not meet the target density of 15 dwellings per gross urban hectare primarily due to the large areas of land in the structure plan set aside for regional open space and Kadina Brook foreshore (conservation) areas.

Table 1. Development Statistics (based on the Concept Plan)

	Site Outcomes	Target Density
Total Structure Plan Area	132,332m ²	-
Area set aside for foreshore, public open space, roads & drainage	83,837m ² (approximate)	-
Balance area for residential development	48,495m ² (approximate)	-
Estimated number of dwellings	92 dwellings	-
Estimated number dwellings per site hectare	19 dwellings per site hectare	Liveable Neighbourhoods 12 – 20 dwellings per site hectare for standard lot layouts; or 20 – 30 dwellings per site hectare for areas within 400m of neighbourhood centres
Estimated number dwellings per gross urban hectare	7 dwellings per site hectare	Density target of 15 dwellings per hectare as per Perth and Peel@3.5 million

Directions 2031 and *Liveable Neighbourhoods* prescribe minimum dwelling/lot targets for the purpose of meeting the needs of forecast population growth. Each of the strategic and policy documents set the following targets:

Directions 2031	15 dwellings per gross urban hectare
Liveable Neighbourhoods	20 dwellings per site hectare

1. 'Gross Urban Hectare' means the gross area available for urban development.
2. 'Site Hectare' means the area available for residential development, excluding roads, non-residential uses, public open space, and drainage areas.

5. Public Open Space

The structure plan makes provision for 16% public open space (POS), which is more than the minimum 10% requirement under Liveable Neighbourhoods. The POS adjacent to the Kadina Brook foreshore provides for the majority of the POS requirement. The original structure plan made allowance for Kadina Brook as a Resource Enhancement Wetland (REW) with its associated wetland buffer. Kadina Brook is no longer considered a wetland but instead is a waterway requiring a foreshore reserve – refer to **Figure 4**.

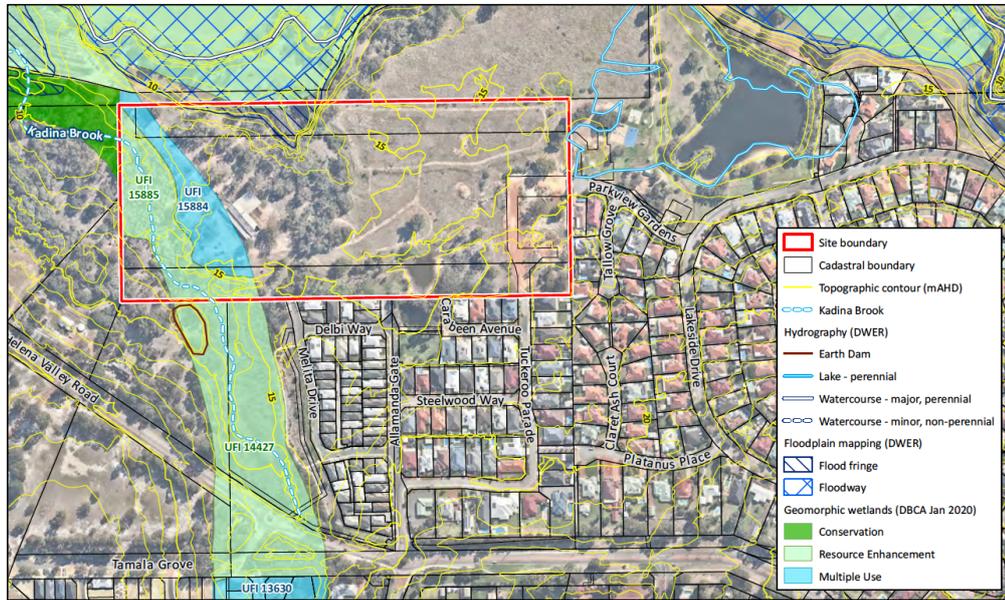
This has implications for the provision of POS, whereas in the original structure plan the REW did not form part of the POS. Kadina Brook and its foreshore reserve has now been determined and set aside as a dedicated area for conservation. The balance area outside of the Kadina Brook foreshore reserve is therefore potentially developable as POS. Approximately 16% POS is therefore provided in the current subdivision concept plan, resulting in a surplus of 6% POS. Modifications to the future lot layout could be considered at subdivision stage to refine the amount of POS being provided.

Table 2 sets out the POS schedule for the amended structure plan under the original structure plan REW open space requirements.

As part of the initial stages of subdivision, a Foreshore Management Plan has been prepared, which includes a Landscaping Concept Plan of the Kadina Brook foreshore area and adjacent POS (refer to **Figure 5** and **Appendix 3 – Foreshore Management Plan**).

The portion of the LPS 4 'Flood Fringe' mapping affecting the structure plan area in the northern portion of Lot 6 is located within the public open space adjacent to the regional open space. The Flood Fringe mapping can be seen in the Urban Water Management Plan Appendix B – Drainage Strategy Plans (refer to **Appendix 4 – Urban Water Management Plan**).

Deductions in the calculation of the POS include the Kadina Brook foreshore area, regional open space, 1;1yr ARI drainage infrastructure (basin area) and R5 density land use. Land identified for Residential with a density code of R5 would fall under the category of *Special Residential* development consistent with WAPC Development Control Policy 2.5. Because of the spacious character and large lot sizes, WAPC does not specify a standard open space contribution for special residential use and the R5 lot is therefore excluded from the requirement to provide POS.



(Source: Emerge Foreshore Management Plan - modified, 2022)



(Source: Emerge Foreshore Management Plan - modified, 2022)

KADINA BROOK FORESHORE RESERVE
FIGURE 4

Table 2. Public Open Space Schedule based on Concept Plan

	Ha	Ha
Total Site Area (ha)		13.233
Deductions		
Kadina Brook Foreshore Reserve	1.596	
Dedicated Drainage 1:1yr ARI (basin)	0.081	
MRS Regional Open Space	3.281	
Special Residential (R5)	0.214	
Balance Lot (SW corner)	0.172	
Total Deductions		5.344
Gross Subdivisible area		7.889
Required POS (10%)		0.789
Breakdown of POS Provided May comprise:		
- minimum 80 per cent unrestricted POS	0.631	
- Maximum 20 per cent restricted use POS	0.158	
Restricted Public Open Space provided		
Nil		
Total Restricted POS Credited to a maximum of 20%		0.0
Unrestricted Public Open Space provided		
Local Park area adjacent to Kadina Brook foreshore		0.964
Local Park areas adjacent to regional open space		0.297
Total Unrestricted POS		1.261
Provided POS (16%)		1.26

Notes:

- Final POS calculations will be subject to WAPC subdivision approval, detailed survey and an approved Urban Water Management Plan. A minimum of 10% POS land contribution is to be provided at Survey Deposited Plan final approval stage.

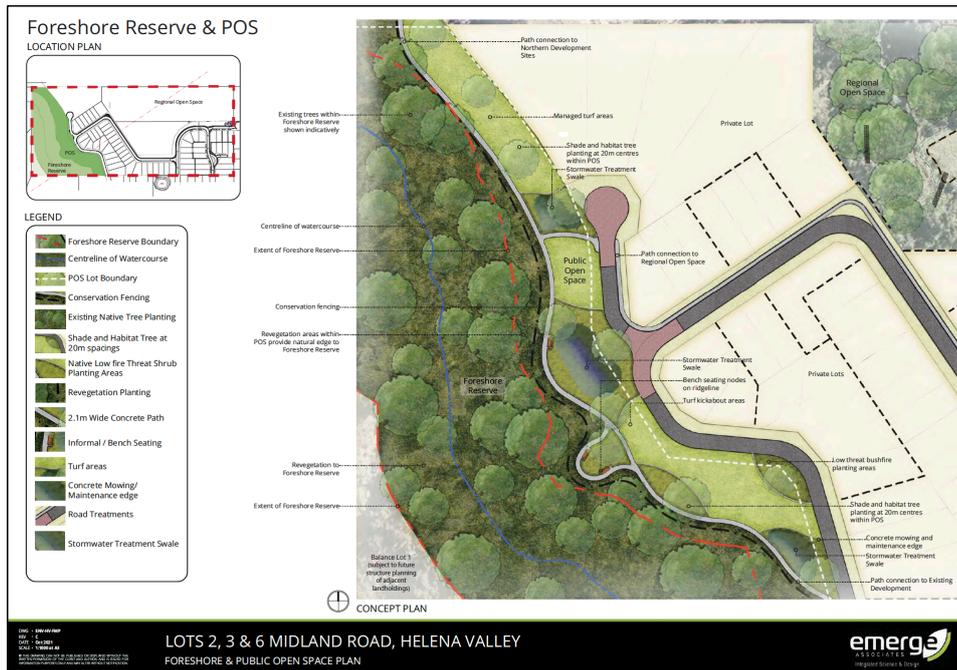


Figure 5. Landscape Concept Plan of Kadina Brook Foreshore and adjacent POS – refer to Appendix 3 for enlarged version. (Source: Emerge, 2024)

6. Bushfire Management

An updated Bushfire Management Plan (**Appendix 5 – Bushfire Management Plan**) has been prepared which demonstrates that the structure plan amendment is consistent with the bushfire framework. No proposed residential lots are affected by a Bushfire Attack Level (BAL) greater than BAL-29. The structure plan area has access and egress in two different directions through connection with the local road network to the south and east. The proposed foreshore ‘hard edge’ road will improve the bushfire access to the Kadina Brook foreshore area.

7. Stormwater Management

An Urban Water Management Plan (**Appendix 4**) has been prepared which demonstrates that the proposed structure plan amendment can satisfy best practice urban stormwater management. The key drainage considerations for the proposed structure plan amendment include:

- Kadina Brook will remain in its present natural form.
- All roads will be kerbed and drained to the Shire’s satisfaction, with all piped drainage designed to accommodate the 20% AEP rainfall event.
- The main detention basin will be designed and landscaped to manage all storm events, including the 1% AEP event.

8. Servicing

Preliminary servicing investigations, including earthworks and drainage, indicate that there are no significant constraints to the creation of the roads and residential lots as proposed by the structure plan amendment. Further consultation at the detailed design stage will be required with service providers to coordinate the extension and upgrading of the necessary services to create the lots.

9. Staging

An indicative staging plan is provided in **Figure 6** which shows staging generally progressing from east to west. The timing for the acquisition and development of the regional open space by the Western Australian Planning Commission is not known at this stage. Notwithstanding, the land within the regional open space would form the balance of the subject site upon completion of subdivision and would be maintained by the developer, particularly for bushfire management.

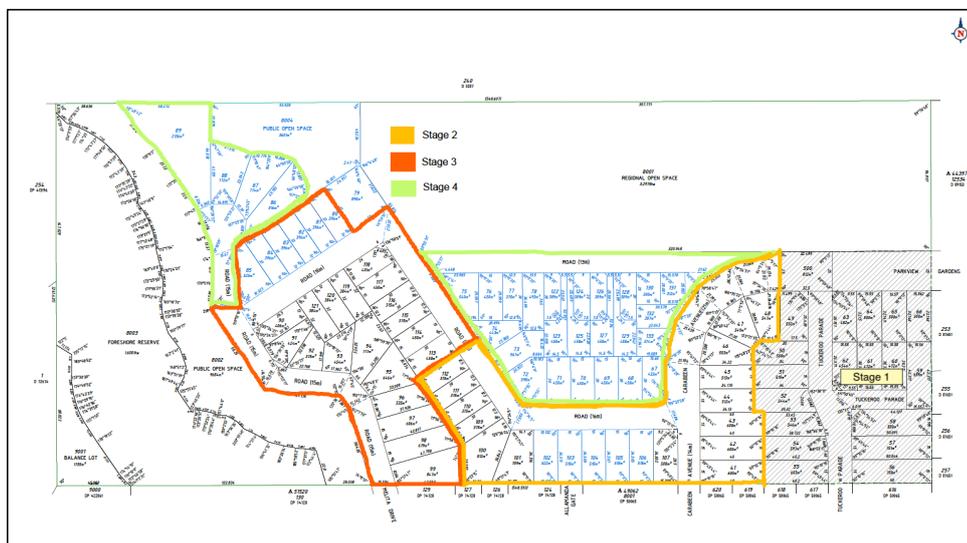


Figure 6. Indicative staging plan.

element.

APPENDIX 1

Original Approved Structure Plan

element.

APPENDIX 2

Indicative Subdivision Concept Plan

element.

APPENDIX 3

Foreshore Management Plan

element.

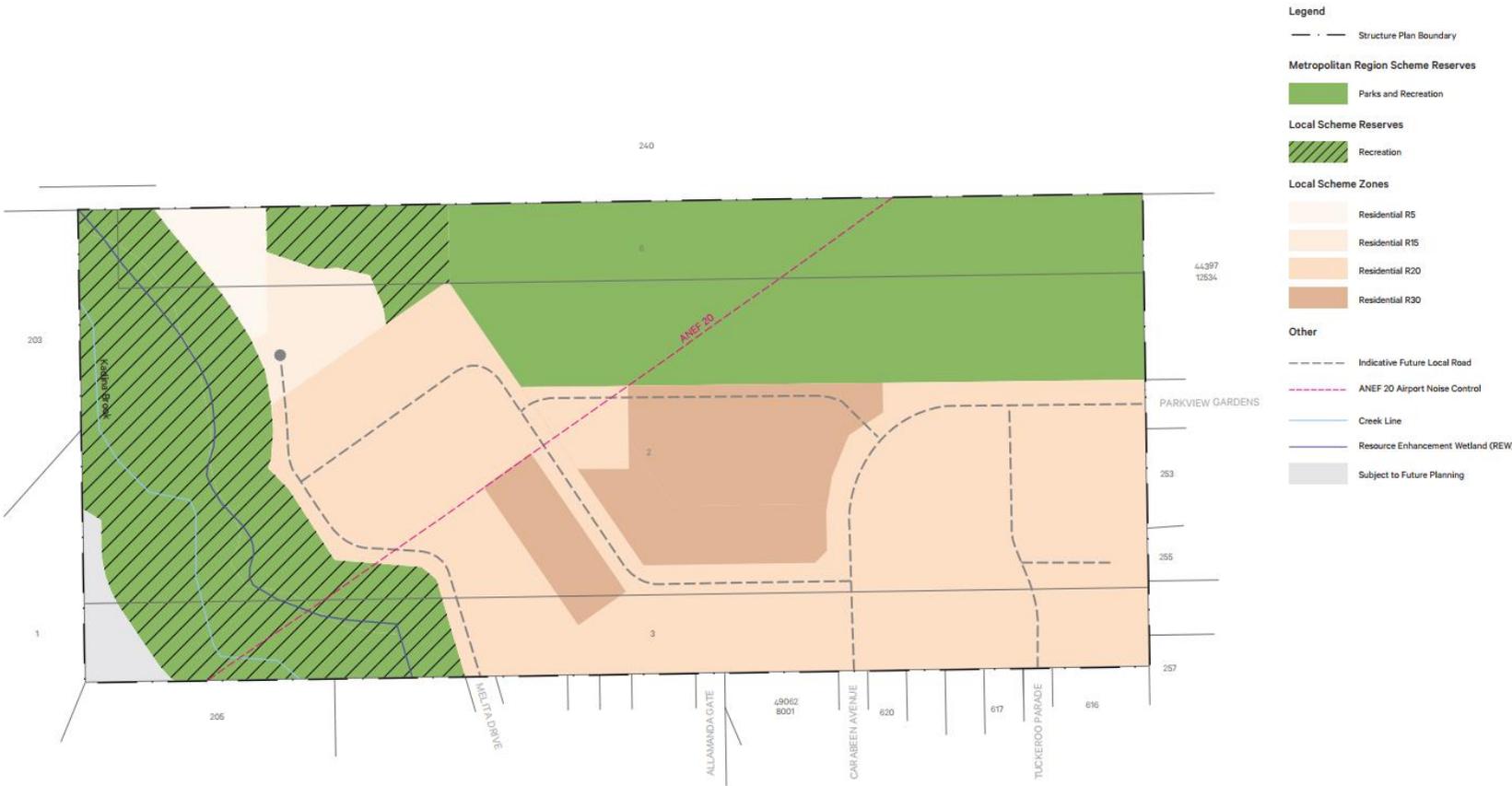
APPENDIX 4

Urban Water Management Plan

element.

APPENDIX 5

Bushfire Management Plan



Lots 2, 3 and 6 Midland Road Structure Plan

Date: 1 Aug 2024 Scale: 1:2000 @ A3 1:1000 @ A1 File: 20-088 CP-6 Staff: JP, MT, OW Checked: JP



Level 18, 301 St. Georges Terrace, Perth Western Australia 6000.
 PO Box 7275, Cloisters Square, Perth Western Australia 6850.
 T: +61 8 9259 3300 | E: info@element.com.au | element.com.au



The copyright has been reserved for the purpose of ensuring correct specifications. The drawings are not suitable for construction, agreement is required for any use thereof, if any need be shown. Although care has been taken in the preparation of this drawing by The Planning Group WA Pty Ltd and all parties associated with the proposed property development, we are not responsible for any errors or omissions. The rights reserved for design this plan at any time. Liability is expressly disclaimed by The Planning Group WA Pty Ltd for any loss or damage which may be suffered by any person acting on the basis of reliance placed on this drawing.

Level 7, 101 St Georges Terrace, Perth Western Australia 6000
 P.O. Box 121, Clovelly Park, Perth Western Australia 6008
 Phone: (08) 9437 8800 Fax: (08) 9437 8899
 The Planning Group WA Pty Ltd is a subsidiary of TPG Pty Ltd



WESTERN
ENVIRONMENTAL

Bushfire Management Plan

Local Structure Plan and Subdivision Application
Midland Road, Helena Valley

Western Environmental Pty Ltd

(08) 6162 8980
PO Box 437, Leederville, WA 6903
enquiries@westenv.com.au
westenv.com.au



Bushfire Management Plan

Local Structure Plan and Subdivision Application
Midland Road, Helena Valley

Report No:
A24.202-BMP_1_FINAL
Issue Date:
16-Jan-2025
Status
FINAL

Prepared for:
Cityplaza Pty Ltd
88 Marine Terrace
Fremantle WA 6160

Prepared by
Western Environmental Approvals Pty Ltd
Unit 5, 162 Colin Street
West Perth WA 6005
westenv.com.au



Internal Review

Author	Reviewed by	Approved by
		
Dylan Wray Associate Level 2 BPAD 44656	Daniel Panicker Senior Principal / Partner Level 3 BPAD 37802	Daniel Panicker Senior Principal / Partner Level 3 BPAD 37802
16-Jan-2025	16-Jan-2025	16-Jan-2025

Distribution Record

Copies	Document ID / Version	Date	Received by
1	A24.202-BMP_A_DRAFT	14-Oct-2024	Nita Subramaniam
1	A24.202-BMP_0_FINAL	21-Oct-2024	Nita Subramaniam
1	A24.202-BMP_1_FINAL	16-Jan-2025	Nita Subramaniam





Statement of Limitations

Copyright Statement

© Western Environmental Pty Ltd (WEPL). All rights reserved. No part of this work may be produced in any material form or communicated by any means without the permission of the copyright owner. The unauthorised copying or reproduction of this report or any of its contents is prohibited.

Scope of Services

This environmental report ("this report") has been prepared for the sole benefit and exclusive use of the Client for the purpose for which it was prepared in accordance with the agreement between the Client and WEPL ("the Agreement").

WEPL disclaims any and all liability with respect to any use of or reliance upon this report for any other purpose whatsoever.

In particular, it should be noted that this report is based on a scope of services defined by the Client, and is limited by budgetary and time constraints, the information supplied by the Client (and its agents) and, in some circumstances, access and/or site disturbance constraints.

The scope of services did not include any assessment of the title to or ownership of the properties, buildings and structures referred to in this report, or the application or interpretation of laws in the jurisdiction in which those properties, buildings and structures are located.

Reliance on Data

In preparing this report, WEPL has relied on data, surveys, analyses, designs, plans and other information provided by the Client (or its agents), other individuals and organisations ("the data").

Except as otherwise stated in this report, WEPL has not verified the accuracy or completeness of the data. WEPL does not represent or warrant that the data is true or accurate, and disclaims any and all responsibility or liability with respect to the use of the data.

To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in this report ("conclusions") are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data.

WEPL does not accept any responsibility or liability for any incorrect or inaccurate conclusions should any data be incorrect, inaccurate or incomplete or have been concealed, withheld, misrepresented or otherwise not fully disclosed to WEPL.



The conclusions must also be considered in light of the agreed scope of services (including any constraints or limitation therein) and the methods used to carry out those services, both of which are as stated or referred to in this report.

Bushfire Protection

The bushfire management measures and risk treatments proposed in this document do not guarantee that buildings or infrastructure will not be damaged in a bushfire, nor that there will be no injuries or fatalities either on the site or offsite while evacuating. Primarily, this is due to the unpredictable nature and behaviour of fire and fire weather conditions. In addition, implementation of the required bushfire management measures (including construction standards, maintenance etc.) and any other required or recommended measures, will depend upon, among other things, the ongoing actions of landowners and/or operators over which WEPL has no control.

Report for Benefit of Client

This report is confidential. Neither the whole nor any part of this report, or any copy or extract thereof, may be disclosed or otherwise made available to any third party without the prior written approval of WEPL.

WEPL accepts no liability or responsibility whatsoever in respect of any use of or reliance upon this report, by any person or organisation who is not a party to the Agreement. Reliance on this report by any person who is not a party to the Agreement is expressly prohibited. Any representation in this report is made only to the parties to the Agreement.

WEPL assumes no responsibility and disclaims any and all liability to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in this report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in this report (including without limitation matters arising from any negligent act or omission of WEPL or for any loss or damage suffered by any other party using or relying on the matters dealt with or conclusions expressed in this report, even if WEPL has been advised of the possibility of such use or reliance).

Other parties should not rely on this report or the accuracy or completeness of any conclusions contained in this report, and should make their own enquiries and obtain independent advice in relation to such matters.

Other Limitations

This report is intended to be read in its entirety, and sections or parts of this report should therefore not be read and relied on out of context.

WEPL will not be liable to update or revise this report to take into account any events or circumstances or facts becoming apparent after the date of this report.



Table of Contents

1.	Introduction	1
1.1	Proposal Details	1
1.1.1	Site context	1
1.2	Purpose and Application of the BMP	1
1.3	Environmental Considerations.....	2
2.	Bushfire Assessment Results.....	6
2.1	Bushfire Assessment Inputs	6
2.1.1	Fire Danger Index	6
2.1.2	Vegetation Classification and Slope under Vegetation	6
2.1.3	Post Development Assumptions	6
2.2	Bushfire Assessment Outputs	9
2.2.1	BAL Assessment.....	9
2.2.2	Method 1 BAL Assessment.....	9
2.3	Identification of Issues Arising from the BAL Assessment.....	10
3.	Assessment Against the Bushfire Protection Criteria.....	12
3.1	Compliance	12
3.2	Additional Bushfire Management Requirements.....	14
3.2.1	Vegetation Management	14
4.	Responsibilities for Implementation and Management of Bushfire Management Measures.....	16
5.	Conclusion.....	17
6.	References.....	18



Tables

Table 1: Classified Vegetation as per AS 3959: 2018..... 6
Table 2: Method 1 BAL Calculation (BAL Contours) 9
Table 3: Assessment Against the Bushfire Protection Criteria 12
Table 4: Proposed Works Program..... 16

Figures

Figure 1: Site Overview..... 3
Figure 2: Plan of Subdivision 4
Figure 3: Bushfire Prone Areas..... 5
Figure 4: Vegetation Classification (Pre Development)..... 7
Figure 5: Vegetation Classification (Post Development) 8
Figure 6: Bushfire Attack Level (BAL) Contours 11
Figure 7: Spatial Representation of Bushfire Management Measures 15

Appendices

- Appendix A: Foreshore and Public Open Space Plan
- Appendix B: Classified Vegetation Photos
- Appendix C: APZ Technical Requirements
- Appendix D: Vehicular Access Technical Requirements



1. Introduction

1.1 Proposal Details

Jardim Property is seeking to amend the previously endorsed local structure plan (LSP) and approved subdivision plan for Lots 2, 3 and 6 Midland Road, Helena Valley (hereby referred to as the subject site, Figure 1). The previous LSP and subdivision approval for the subject site included the creation of 65 lots which are intended to be delivered across multiple stages, with Stage 1 completed, Stage 2 soon to be released and Stage 3 soon to be developed. The LSP and subdivision plan is being amended to include Stage 4 on balance lot 9003 which will include an additional 22 lots (Figure 2).

The subject site is within a designated bushfire prone area as per the *Western Australia State Map of Bush Fire Prone Areas* (DFES 2024; Figure 3), which triggers bushfire planning requirements under *State Planning Policy 3.7 Bushfire* (SPP 3.7; WAPC, 2024a) and the associated *Planning for Bushfire Guidelines* (the Guidelines; WAPC, 2024b).

Western Environmental Approvals Pty Ltd (WEPL) was commissioned to prepare a Bushfire Management Plan (BMP) to accompany the submission of the LSP and subdivision application. This BMP has been prepared by Associate Bushfire Consultant Dylan Wray (FPAA BPAD Level 2 Certified Practitioner No. BPAD44656) and reviewed by Senior Principal Bushfire Consultant Daniel Panickar (FPAA BPAD Level 3 Certified Practitioner No. BPAD37802).

1.1.1 Site context

The subject site is located within Shire of Mundaring and is zoned 'Development' and 'Rural Residential' under Local Planning Scheme No. 4 and 'Urban' and 'Parks and Recreation' under the Metropolitan Region Scheme. The subject site contains a mixture of unmanaged, classifiable vegetation along with areas which have been cleared under previous subdivision stages. The subject site is bound by Kadina Brook to the west, vacant paddock to the north and existing residential areas to the south and east.

1.2 Purpose and Application of the BMP

This BMP has been prepared in accordance with SPP 3.7 and the Guidelines to support the assessment of the LSP and subdivision application for the subject site.

In addition, this BMP provides strategies and guidance to reduce the level of bushfire risk exposure for the subject site through implementation of a range of bushfire management measures in accordance with the Guidelines.



1.3 Environmental Considerations

SPP 3.7 policy objective 5.4 recognises the need to consider bushfire risk management measures alongside environmental, biodiversity and conservation values.

The environmental considerations for the subject site have been previously considered under the LSP which identified areas for foreshore, public open space (POS), regional open space (ROS) reserves. The bushfire assessment contained within this BMP considers the environmental values identified for the subject site, specifically:

- Existing vegetation within the Kadina Brook foreshore reserve will be retained and revegetated to Class A Forest, as detailed on the Foreshore and Public Open Space Plan (Appendix A; Emerge Associates, 2021);
- Proposed landscaping and retained vegetation within the POS reserves will be maintained in a low threat state, as detailed on the Foreshore and Public Open Space Plan (Appendix A; Emerge Associates, 2021); and
- Proposed landscaping and retained vegetation within the ROS reserve will be maintained in a low threat state.

WEPL is not aware of any outstanding environmental approvals required for development to proceed.

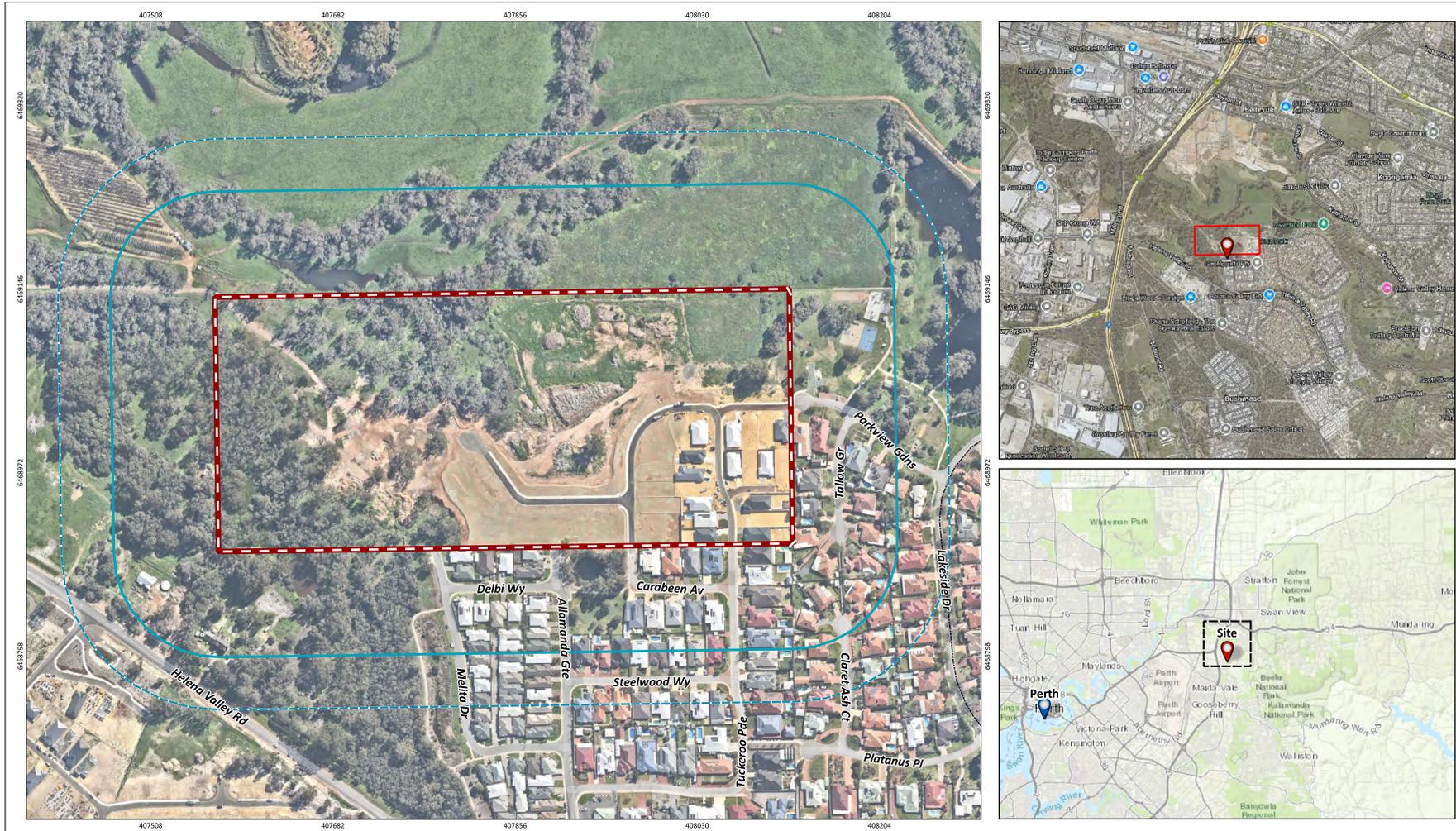


Figure 1: Site Overview

		Legend Subject Site Buffer 100m Buffer 150m	
PROJECT/REPORT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley		CLIENT: Cityplaza Pty Ltd	
SCALE: 1:3,481	SHEET SIZE: A3 COLOUR	PROJECT NUMBER: A24.202	VERSION: 0
COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50		DRAWN BY / REVIEWED BY: JP/DW	DATE: 15/1/2025
DATA SOURCE: Nearmap Imagery (02 September 2024)			

No	Description	Drawn	Approved	Date
A	Original Issue	JP	DW	15/1/2025

NOTES:
 Cultural boundary (IGARF 032), Base map (SR) Topo Datafiles (IGARF 248).

WESTERN ENVIRONMENTAL
 Western Environmental Pty Ltd
 DE 6244 2310 | email@westernenv.com.au
 Level 1/21 Power St, West Perth WA 6009
 western.com.au

G:\GIS\Project Data\2024\A24.202\A24.202_BMP\A24.202_BMP.rpt

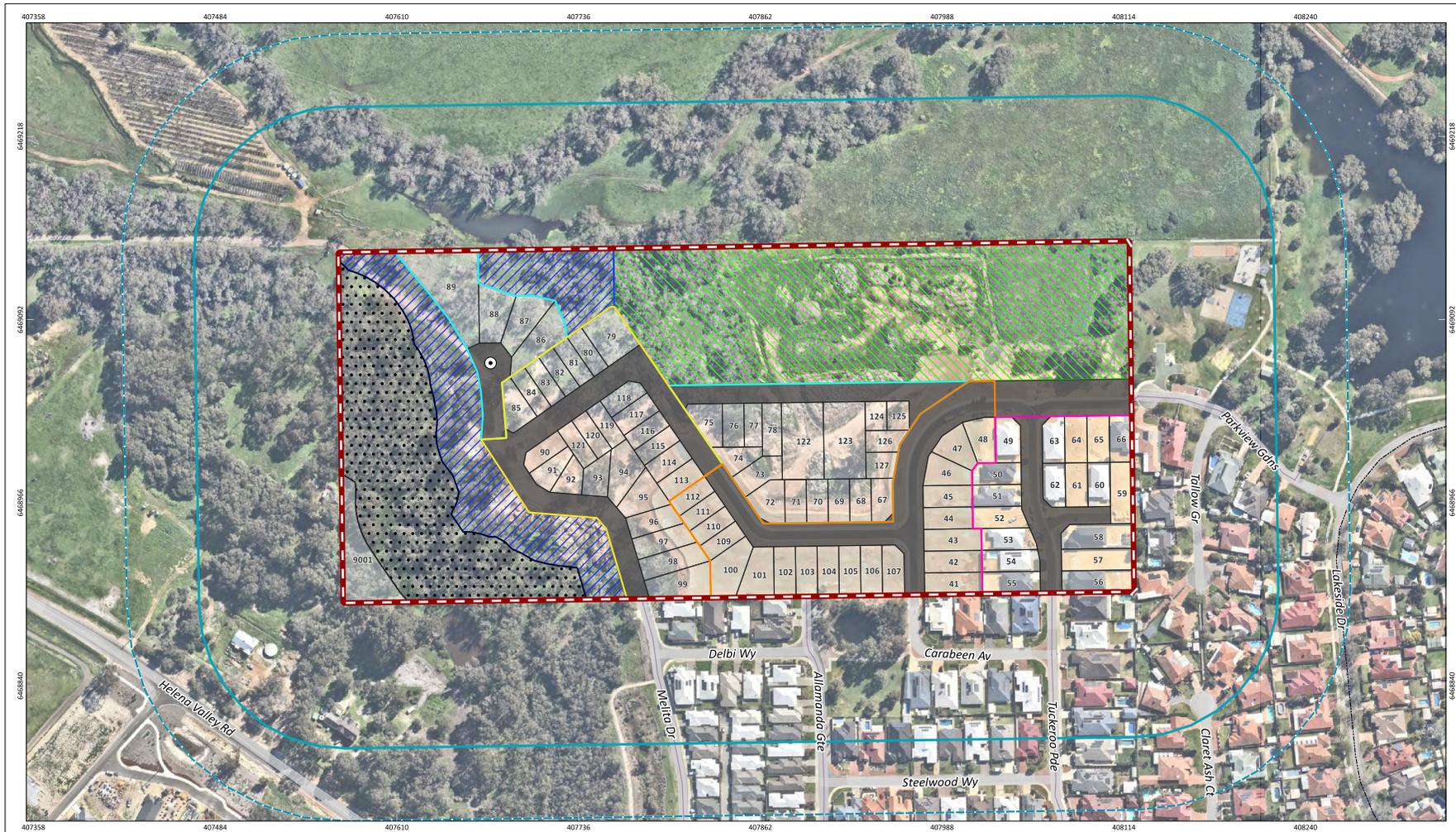


Figure 2: Subdivision Plan

		Legend <ul style="list-style-type: none"> Subject Site Buffer 100m Buffer 150m Stage 1 Stage 2 Stage 3 Stage 4 Lots POS ROS Road Foreshore Reserve Cul-de-sac 		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original issue</td> <td>JP</td> <td>DW</td> <td>15/1/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No	Description	Drawn	Approved	Date	A	Original issue	JP	DW	15/1/2025																				
No	Description	Drawn	Approved	Date																															
A	Original issue	JP	DW	15/1/2025																															
SCALE: 1:2,527 SHEET SIZE: A3 COLOUR COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50 DATA SOURCE: Nearmap Imagery (02 September 2024)		PROJECT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley CLIENT: Cityplaza Pty Ltd PROJECT NUMBER: A24.202 VERSION: 0 DRAWN BY / REVIEWED BY: JP/DW DATE: 15/1/2025																																	

G:\GIS\Project Data\2024\A24.202\A24.202_BMP\A24.202_BMP.rgs

Copyright: The documents and data herein are the property of the client. The documents may only be used for the purposes for which they were commissioned and in accordance with the terms of engagement. The client does not hold any responsibility for the release of this document.

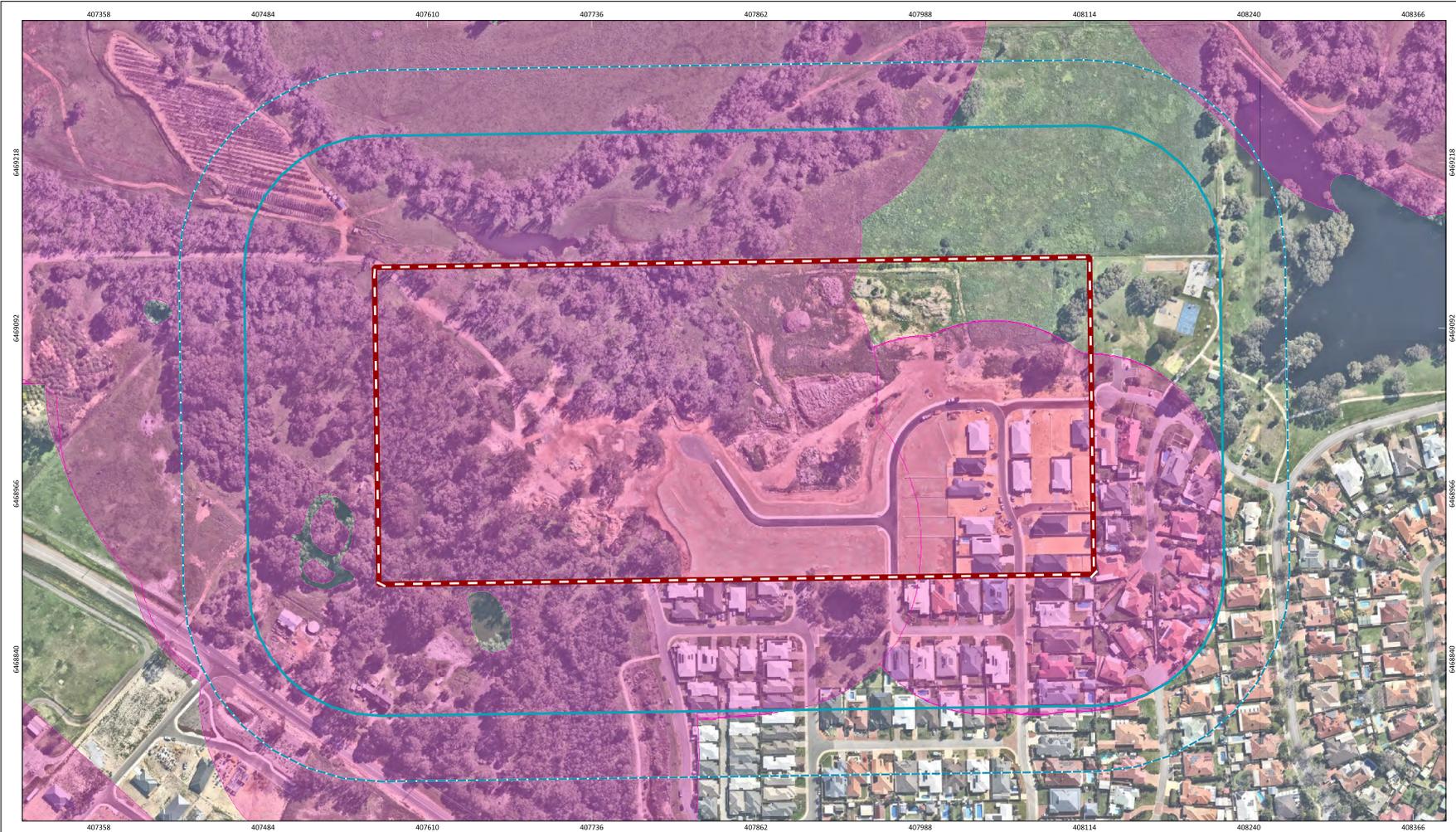


Figure 3: Bushfire Prone Areas

		Legend Subject Site Buffer 100m Buffer 150m Bush Fire Prone Area 2 (OBRM-023)		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original issue</td> <td>JP</td> <td>DW</td> <td>15/1/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No	Description	Drawn	Approved	Date	A	Original issue	JP	DW	15/1/2025																				
No	Description	Drawn	Approved	Date																														
A	Original issue	JP	DW	15/1/2025																														
PROJECT/REPORT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley		CLIENT: Cityplaza Pty Ltd																																
SCALE: 1:2,803		SHEET SIZE: A3 COLOUR																																
COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50		PROJECT NUMBER: A24.202																																
DATA SOURCE: Nearmap Imagery (02 September 2024)		DRAWN BY / REVIEWED BY: JP/DW		DATE: 15/1/2025																														

G:\GIS\Project Data\2024\A24.202\A24.202_BMP\A24.202_BMP.rgs



2. Bushfire Assessment Results

2.1 Bushfire Assessment Inputs

A bushfire assessment has been undertaken for the proposed subdivision in accordance with the Guidelines. Inputs to this assessment are detailed below.

2.1.1 Fire Danger Index

A blanket Fire Danger Index (FDI) 80 is adopted for Western Australia, as outlined in *Australian Standard AS 3959: 2018 Construction of Buildings in Bushfire Prone Areas* (AS 3959: 2018; SA, 2018).

2.1.2 Vegetation Classification and Slope under Vegetation

Vegetation and effective slope (i.e. slope under vegetation) within the subject site and surrounding 150 m (the assessment area) were assessed on 18/09/2024 in accordance with the Guidelines and AS 3959: 2018.

The classified vegetation and effective slope for the site from each of the identified vegetation plots are identified below in Table 1 and Figure 4 based on the existing site conditions.

Table 1: Classified Vegetation as per AS 3959: 2018

Plot	Vegetation classification	Effective slope
1	Class A Forest	Downslope >5 to 10 degrees
2	Class A Forest	Downslope >0 to 5 degrees
3	Class A Forest	All upslopes and flat land (0 degrees)
4	Class B Woodland	All upslopes and flat land (0 degrees)
5	Class D Scrub	All upslopes and flat land (0 degrees)
6	Class G Grassland	All upslopes and flat land (0 degrees)
7	Excluded - clause 2.2.3.2 (b)	-
8	Excluded - clause 2.2.3.2 (e)	-
9	Excluded - clause 2.2.3.2 (f)	-

Photographs relating to each area and vegetation type are included in Appendix A.

2.1.3 Post Development Assumptions

Figure 5 illustrates the post-development vegetation plots following the proposed lots and road reserves being cleared of vegetation, the foreshore being revegetated to Class A Forest and the POS reserves and ROS reserve being modified to low threat. The assessment outputs in this BMP have been based on the post development scenario.

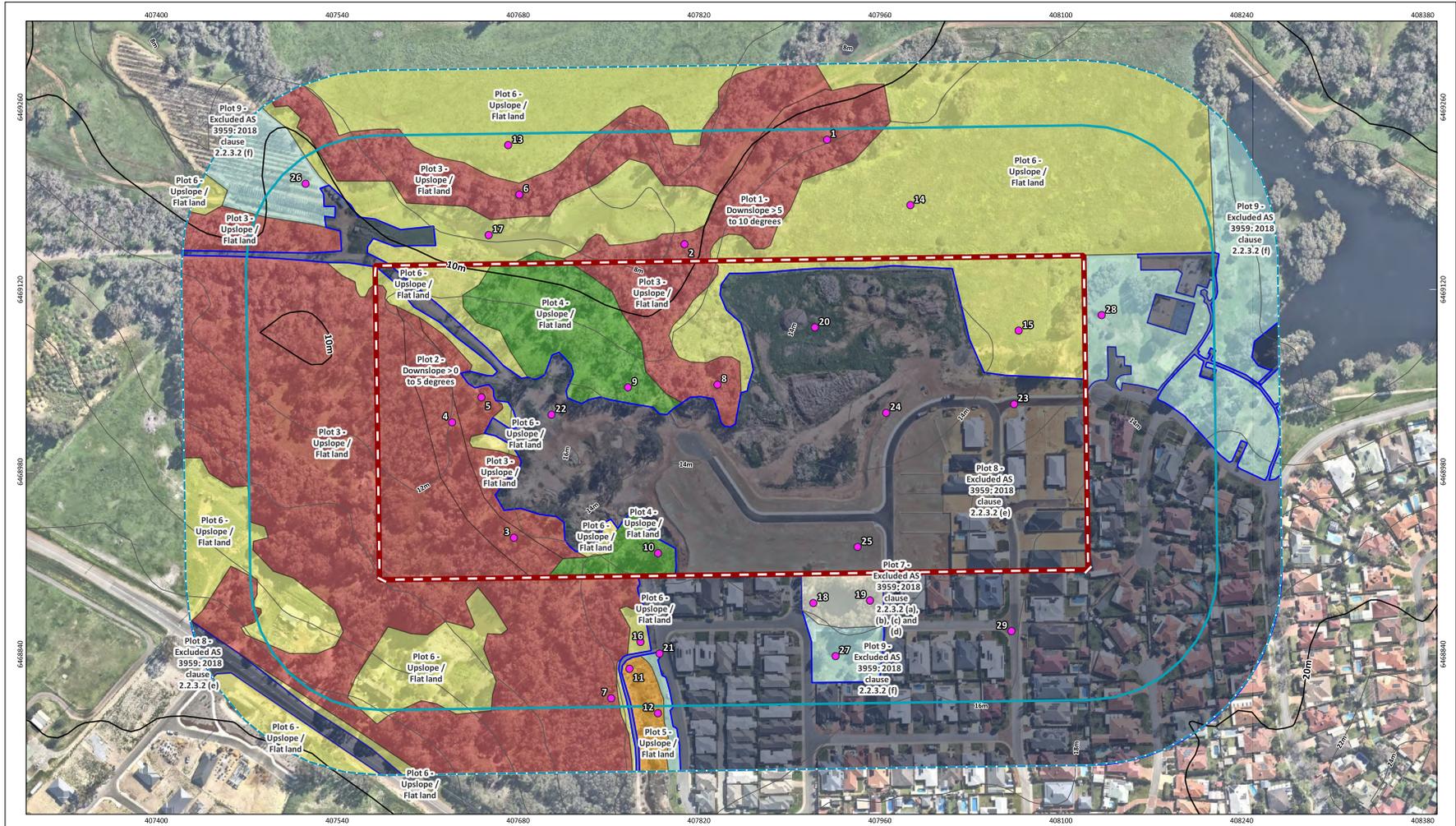


Figure 4: Vegetation Classification (Existing)

		Legend Subject Site Buffer 100m Buffer 150m Photos 2m Contours (DPIRD-072) 2m Contour 10m Contour		Vegetation Classification Class A - Forest Class B - Woodland Class D - Scrub Class G - Grassland Excluded AS 3959: 2018 2.2.3.2 (a), (b), (c) and (d) clause Excluded AS 3959: 2018 2.2.3.2 (e) Excluded AS 3959: 2018 2.2.3.2 (f)		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original Issue</td> <td>JP</td> <td>DW</td> <td>15/1/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>NOTES: Cadastral boundary from LANDSAT 2022. Shaded corresponds to the vegetation association number.</p>		No	Description	Drawn	Approved	Date	A	Original Issue	JP	DW	15/1/2025																				
No	Description	Drawn	Approved	Date																																	
A	Original Issue	JP	DW	15/1/2025																																	
SCALE: 1:2,803 SHEET SIZE: A3 COLOUR		PROJECT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley		CLIENT: Cityplaza Pty Ltd																																	
COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50		PROJECT NUMBER: A24.202		VERSION: 0																																	
DATA SOURCE: Nearmap Imagery (02 September 2024)		DRAWN BY / REVIEWED BY: JP/DW		DATE: 15/1/2025																																	

G:\GIS\Project Data\2024\A24.202\A24.202_BMP\A24.202_BMP.aprx

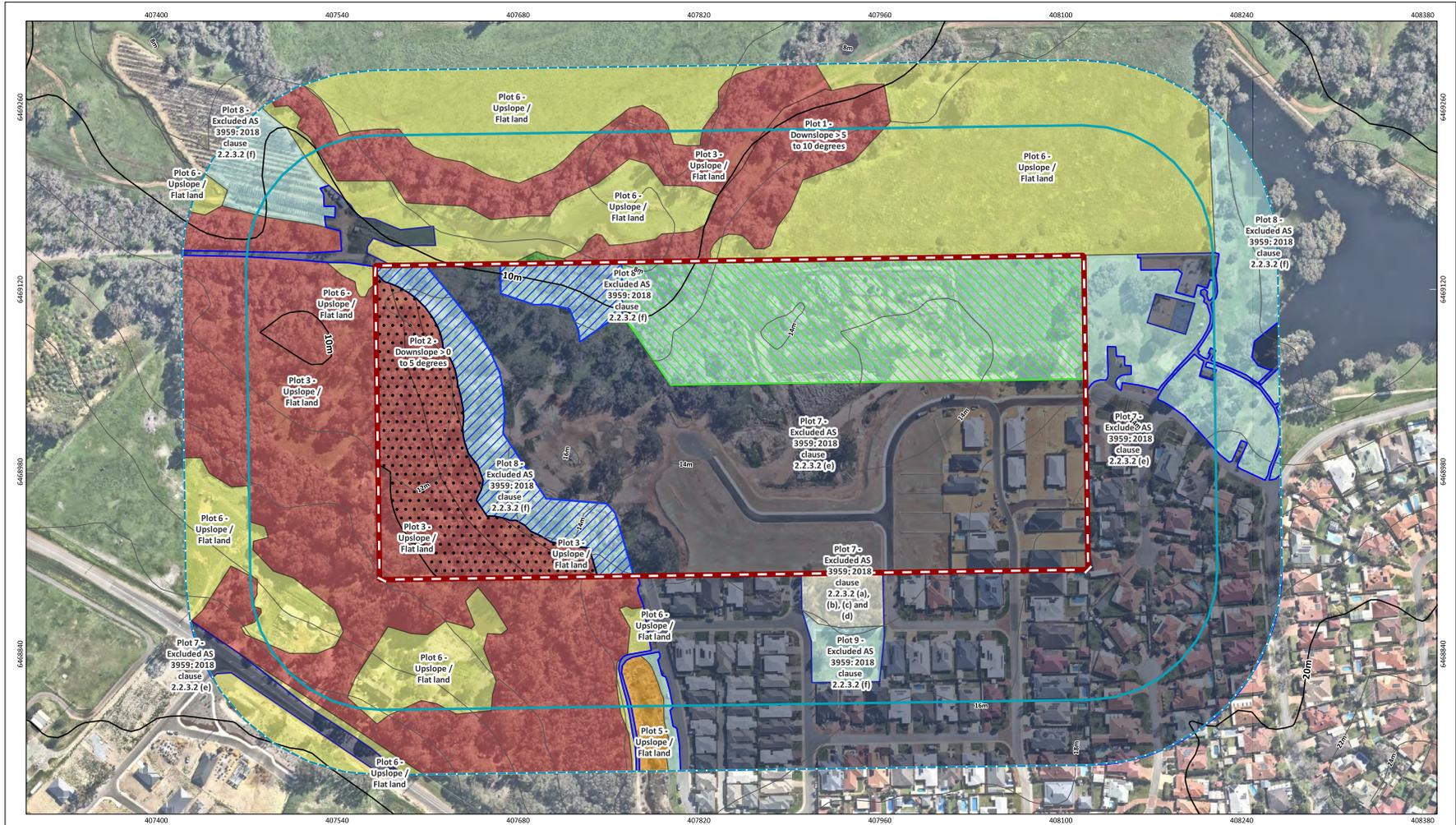


Figure 5: Vegetation Classification (Post Development)

		PROJECT/REPORT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley		CLIENT: Cityplaza Pty Ltd		Legend [Red dashed box] Subject Site [Blue dashed box] Buffer 100m [Blue solid box] Buffer 150m [Black line] 2m Contour (DPIRD-072) [Grey line] 10m Contour		Vegetation Classification [Red] Class A - Forest [Green] Class B - Woodland [Yellow] Class D - Scrub [Light Green] Class G - Grassland [White with red border] Excluded AS 3959: 2018 2.2.3.2 (a), (b), (c) and (d) [White with blue border] Excluded AS 3959: 2018 2.2.3.2 (e) [White with light blue border] Excluded AS 3959: 2018 2.2.3.2 (f)		Revegetation [Black dots] Revegetation [Blue diagonal lines] POS [Green diagonal lines] ROS		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original issue</td> <td>JP</td> <td>DW</td> <td>15/1/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No	Description	Drawn	Approved	Date	A	Original issue	JP	DW	15/1/2025																				
No	Description	Drawn	Approved	Date																																						
A	Original issue	JP	DW	15/1/2025																																						
SCALE: 1:2,803 COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50 DATA SOURCE: Nearmap Imagery (02 September 2024)		PROJECT NUMBER: A24_202 VERSION: 0		CLIENT: Cityplaza Pty Ltd		DATE: 15/1/2025		NOTES: Cadastre boundary from LANDSAT 2022. List corresponds to the vegetation association number.																																		

G:\GIS\Project Data\2024\A24_202\A24_202_BMP\A24_202_BMP.pptx



2.2 Bushfire Assessment Outputs

A Bushfire Attack Level (BAL) assessment has been undertaken in accordance with SPP 3.7, the Guidelines, AS 3959: 2018 and the bushfire assessment inputs in Section 2.1.

2.2.1 BAL Assessment

All land located within 100 m of the classified vegetation depicted in Figure 4 is considered bushfire prone and is subject to a BAL assessment in accordance with AS 3959: 2018.

A Method 1 BAL assessment (as outlined in AS 3959: 2018) has been completed for the proposed development and incorporates the following factors:

- Fire Danger Index (FDI) rating.
- Vegetation class.
- Slope under classified vegetation.
- Distance between proposed lots and the classified vegetation.

Based on the identified BAL, construction requirements for relevant buildings/structures can then be assigned. The BAL rating gives an indication of the expected level of bushfire attack (i.e. radiant heat flux, flame contact and ember penetration) that may be received by proposed buildings and subsequently informs the standard of construction required to increase building survivability.

2.2.2 Method 1 BAL Assessment

Table 2 and Figure 6 display the Method 1 BAL assessment (in the form of BAL contours) that has been completed for the proposed LSP and subdivision in accordance with AS 3959: 2018 methodology.

Table 2: Method 1 BAL Calculation (BAL Contours)

Plot	Vegetation classification	Effective slope	Separation distances required (m)				
			BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Class A Forest	Downslope >5 to 10 degrees	<26	26-<33	33-<46	46-<61	61-<100
2	Class A Forest	Downslope >0 to 5 degrees	<20	20-<27	27-<37	37-<50	50-<100
3	Class A Forest	All upslopes and flat land (0 degrees)	<16	16-<21	21-<31	31-<42	42-<100
4	Class B Woodland	All upslopes and flat land (0 degrees)	<10	10 - <14	14 - <20	20 - <29	29 - <100

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



Plot	Vegetation classification	Effective slope	Separation distances required (m)				
			BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
5	Class D Scrub	All upslopes and flat land (0 degrees)	<10	10 - <13	13 - <19	19 - <27	27 - <100
6	Class G Grassland	All upslopes and flat land (0 degrees)	<6	6 - <8	8 - <12	12 - <17	17 - <50
7	Excluded - clause 2.2.3.2 (b)	-	No separation distances required - BAL-LOW				
8	Excluded - clause 2.2.3.2 (e)	-	No separation distances required - BAL-LOW				
9	Excluded - clause 2.2.3.2 (f)	-	No separation distances required - BAL-LOW				

2.3 Identification of Issues Arising from the BAL Assessment

Post-development, all lots contain sufficient development sites that can achieve a radiant heat impact not exceeding 29 kW/m² (BAL-29). The worst-case BAL rating that impacts the proposed lots is summarised as follows:

- Two lots (Lots 98 and 99) will be subject to BAL-FZ however provide sufficient development sites that will achieve ≤BAL-29;
- Five lots (Lots 79, 86 - 89) will be subject to ≤BAL-29;
- Two lots (Lots 80 and 85) will be subject to ≤BAL-19;
- 23 lots (Lots 81 - 84, 90 - 96, 100 - 102, 109 - 121) will be subject to ≤BAL-12.5; and
- All remaining lots will be subject to BAL-LOW.

A reassessment of BAL ratings, through either a BMP addendum or revised BMP will be undertaken if changes to subdivision design, classified vegetation or the ability to manage the POS and ROS reserves within the assessment area which require a modified bushfire management response occur.

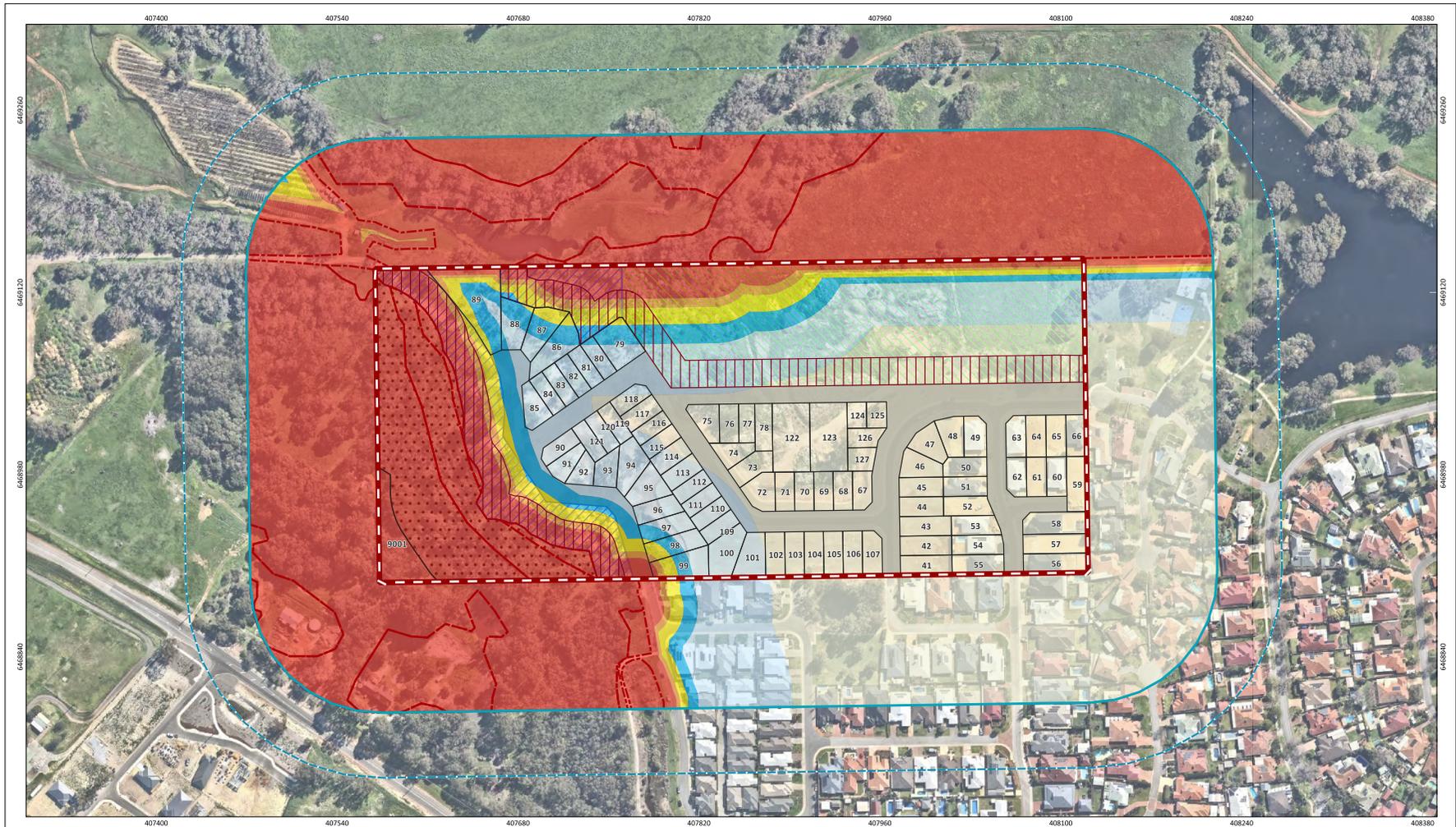


Figure 6: Bushfire Attack Level (BAL) Contours

		Legend Subject Site Buffer 100m Buffer 150m Asset Protection Zone (APZ) Bushfire hazard interface Lots		POS ROS Road Foreshore Reserve		Bushfire Attack Level (BAL) BAL-FZ BAL-40 BAL-29 BAL-19 BAL-12.5 BAL-LOW		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original issue</td> <td>JP</td> <td>DW</td> <td>15/12/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No	Description	Drawn	Approved	Date	A	Original issue	JP	DW	15/12/2025																				
No	Description	Drawn	Approved	Date																																		
A	Original issue	JP	DW	15/12/2025																																		
SCALE: 1:2,803 SHEET SIZE: A3 COLOUR COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50 DATA SOURCE: Nearmap Imagery (02 September 2024)		PROJECT REPORT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley CLIENT: Cityplaza Pty Ltd PROJECT NUMBER: A24.202 VERSION: 0 DRAWN BY / REVIEWED BY: JP/DW DATE: 15/1/2025		NOTES: Cadastral boundary from LANDSAT 2022. Sheet corresponds to the vegetation association number.		 Western Environmental Pty Ltd (R 624 2310) enquiries@western.com.au Level 1/221 Pioneer St, West Perth WA 6005 western.com.au																																

G:\GIS\Project Data\2024\A24.202\A24.202_BMP\A24.202_BMP.rpt



3. Assessment Against the Bushfire Protection Criteria

3.1 Compliance

The proposed LSP and subdivision is required to comply with Policy Measure 7.1 of SPP 3.7 and Bushfire Protection Criteria 5 of the Guidelines.

Table 3 outlines the Acceptable Solutions (AS) that are relevant to the proposal and summarises how the intent of each Bushfire Protection Criteria has been achieved through the application of bushfire risk management measures. No Performance Solutions (PS) have been proposed for this subdivision. These management measures are depicted in Figure 7 where relevant.

Implementation of this BMP is expected to meet Policy Outcomes 6.1 to 6.4 of SPP 3.7.

Table 3: Assessment Against the Bushfire Protection Criteria

Bushfire Protection Criteria	AS	PS	N/A
Element 1: Location	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Not applicable - The current LSP and subdivision has been previously assessed against SPP 3.7 (2015) and the Guidelines. Section 1.3.1 of the Guidelines require any modifications to be assessed against SPP 3.7 (2024) and the Guidelines (2024), with the exception of the new methodology for Element 1: Location.			
Element 2: Siting and design of development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2.1 Siting and design			
All lots contain a sufficient development site that will achieve a radiant heat impact of 29 kW/m ² (BAL-29) or below, as detailed on Figure 6 and Figure 7 .			
Two lots (Lots 98 and 99) will be subject to BAL-FZ however provide sufficient development sites that will achieve ≤BAL-29.			
The LSP and subdivision is considered to be compliant with A2.1.			
A2.2 Asset Protection Zone (APZ)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
APZs will be established to provide separation between the proposed lots and permanent bushfire hazards. The APZs will comprise of public roads and managed vegetation on the POS and ROS reserves. The APZs will be established during the subdivisional works to ensure the radiant heat impact on future habitable buildings does not exceed 29 kW/m ² (BAL-29). The APZs shall meet the technical requirements in Appendix D.			
The LSP and subdivision is considered to be compliant with A2.2.			
A2.3 Clearing of native vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The LSP and subdivision seeks to retain native vegetation along Kadina Brook through the provision of a foreshore reserve which will be revegetated. Native vegetation on private lots, the POS and ROS reserves will be modified to low threat with the aim of avoiding unnecessary clearing where possible.			
The LSP and subdivision is considered to be compliant with A2.3.			



Bushfire Protection Criteria	AS	PS	N/A
Element 3: Vehicular Access			
A3.1 Public Roads	✓	<input type="checkbox"/>	<input type="checkbox"/>
<p>The subject site is accessed via existing public roads. WEPL assumes the existing public road network meets the technical specification under the IPWEA Subdivision Guidelines, Liveable Neighbourhoods, Austroad Standards and/or any applicable standard in the local government area.</p> <p>The proposed public roads within the subject site will be designed according to Liveable Neighbourhoods and the technical requirements in Appendix D. The existing and proposed public access arrangements will provide suitable access and egress for the community and emergency services personnel in the event of a bushfire.</p> <p>The proposed LSP and subdivision is considered to be compliant with A3.1.</p>			
A3.2 Access routes	✓	<input type="checkbox"/>	<input type="checkbox"/>
<p>Multiple access routes from the subject site to more than two suitable destinations are available via the existing public network (Figure 7). Access to the site is available via two different access points.</p> <p>The proposed LSP and subdivision is considered to be compliant with A3.2.</p>			
A3.3a No-through roads	✓	<input type="checkbox"/>	<input type="checkbox"/>
<p>One of the proposed public roads within the subject site will be a no-through road which provides access to four proposed lots. The no-through road is less than 200 m in length and will be comply with the requirements under A3.3b below.</p> <p>The proposed LSP and subdivision is considered to be compliant with A3.3a.</p>			
A3.3b No-through road requirements	✓	<input type="checkbox"/>	<input type="checkbox"/>
<p>The no-through road will comply with the public road specifications in Appendix D and include a cul-de-sac to enable a fire appliance vehicle to turnaround.</p> <p>The proposed LSP and subdivision is considered to be compliant with A3.3b.</p>			
A3.4 Emergency access way	<input type="checkbox"/>	<input type="checkbox"/>	✓
<p>Not applicable - no emergency access ways are required or proposed.</p>			
A3.5a Perimeter roads	✓	<input type="checkbox"/>	<input type="checkbox"/>
<p>The proposed public road network provides perimeter access and separation between all but five of the proposed lots and permanent bushfire hazards. The four lots accessed via the no-through road do not require perimeter roads given they are zoned Rural Residential (rural living equivalent) and Lot 79 will abut areas of low threat vegetation, removing the need for hazard separation via a perimeter road.</p> <p>The proposed subdivision is considered to be compliant with A3.5a.</p>			
A3.5b Fire service access routes	<input type="checkbox"/>	<input type="checkbox"/>	✓
<p>Not applicable - fire service access routes are not required given the four lots which do not have perimeter roads adjoin areas of Class G Grassland and low threat POS reserves.</p>			
A3.6 Battle-axe access legs	<input type="checkbox"/>	<input type="checkbox"/>	✓
<p>Not applicable - no battle-axe lots are proposed.</p>			



Bushfire Protection Criteria	AS	PS	N/A
Element 4: Water Supply			
A4.1 Water supply for structure plans	✓	<input type="checkbox"/>	<input type="checkbox"/>
Existing reticulated water is present within the area and the subject site will be connected to this water supply. The nearest existing hydrants are located on Tuckeroo Parade, Carabeen Avenue and Allamanda Gate (Figure 7). WEPL assumes the surrounding network of hydrants meet Water Corporation specifications given they are established and within the Perth metropolitan area. The proposed LSP is considered to be compliant with A4.1.			
A4.2 Water supply for subdivision applications	✓	<input type="checkbox"/>	<input type="checkbox"/>
The proposed subdivision will be serviced by reticulated water with hydrants installed in accordance with Water Corporation specifications. The proposed subdivision is considered to be compliant with A4.2.			
A4.3 Water supply for existing habitable building(s)	<input type="checkbox"/>	<input type="checkbox"/>	✓
Not applicable - no existing habitable buildings are being retained.			

Note: AS - Acceptable solution, PS - Performance solution, N/A - Not applicable.

3.2 Additional Bushfire Management Requirements

3.2.1 Vegetation Management

As previously identified, all lots contain sufficient development sites that can achieve a radiant heat impact not exceeding 29 kW/m² (BAL-29) on the basis that:

- Classified vegetation in the POS reserves can be modified to low threat, in accordance with the Foreshore and Public Open Space Plan (Appendix A); and
- Classified vegetation ROS reserve can be modified to low threat.

However, it is acknowledged that the future use of the ROS is currently unknown and subject to further discussions with the Shire of Mundaring. If the developer wants to reduce the extent of ROS reserve that needs to be managed, an APZ could be established until a decision has been made on the ultimate use of the ROS reserve. The APZ would need to be maintained along the boundary of the ROS reserve where it is adjacent to the proposed lots to a distance of 21m (Figure 7). This will result in a slight change to the BAL ratings across the subject site however will still ensure that all lots contain sufficient development sites that can achieve a radiant heat impact not exceeding 29 kW/m² (BAL-29). The BAL ratings will be certified following completion of the subdivision works which is a requirement of this BMP.

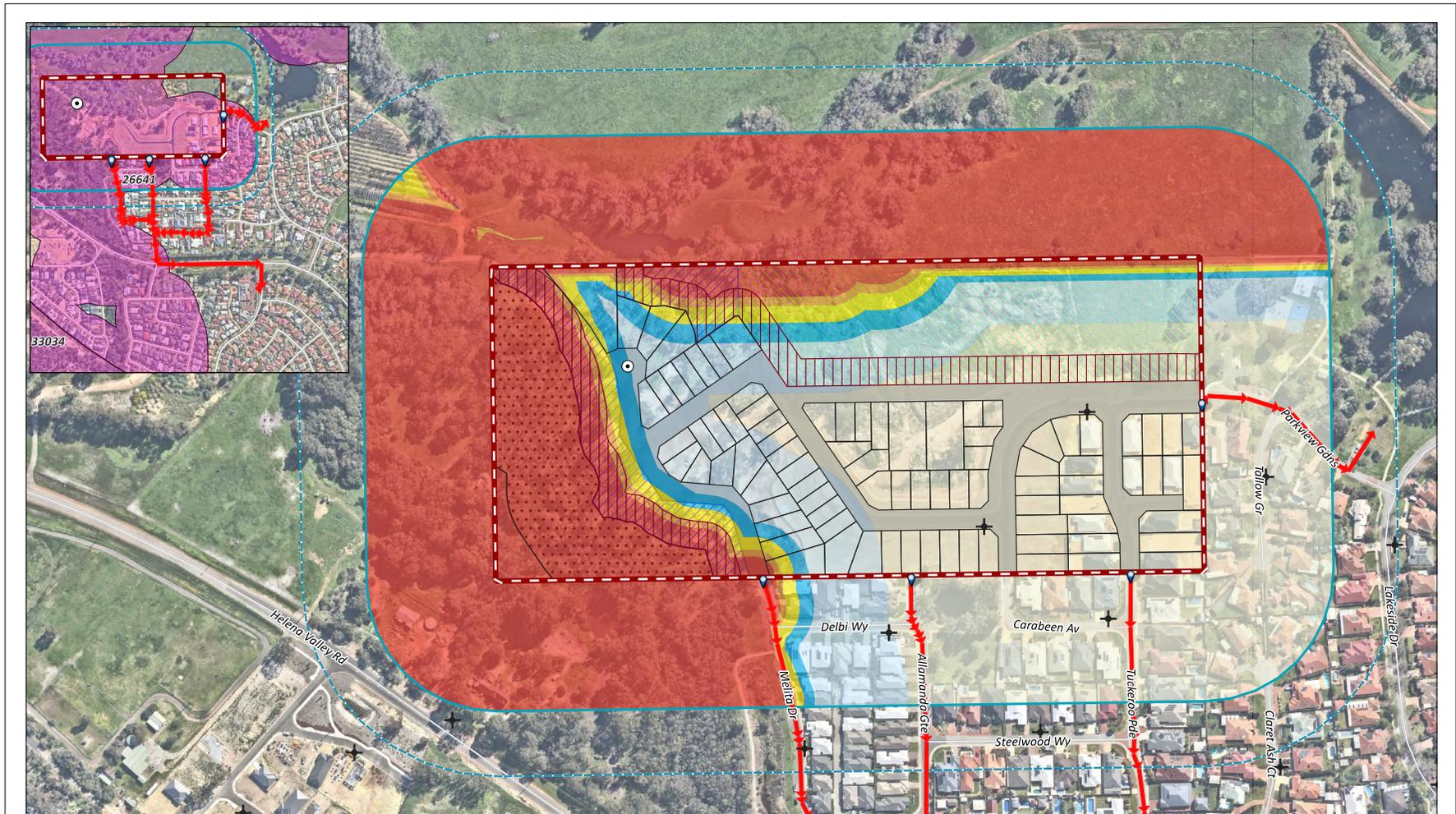


Figure 7: Spatial representation of the bushfire management strategies

		PROJECT/REPORT NAME: Bushfire Management Plan- Local Structure Plan and Subdivision Application Lots 2, 3 and 6 Midland Road, Helena Valley		Legend Subject Site Buffer 100m Buffer 150m Asset Protection Zone (APZ) Lots POS ROS		Road Foreshore Reserve Bush Fire Prone Areas 2021 (OBRM-019) Access / egress route Access point Cul-de-sac Water Hydrant (WCORP-070)		Bushfire Attack Level (BAL) BAL-FZ BAL-40 BAL-29 BAL-19 BAL-12.5 BAL-LOW		<table border="1"> <thead> <tr> <th>No</th> <th>Description</th> <th>Drawn</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Original issue</td> <td>JP</td> <td>DW</td> <td>15/1/2025</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No	Description	Drawn	Approved	Date	A	Original issue	JP	DW	15/1/2025																 Western Environmental Pty Ltd (R 624 231) enquiries@western.com.au Level 1/225 Flinders St, West Perth WA 6005 western.com.au
No	Description	Drawn	Approved	Date																																
A	Original issue	JP	DW	15/1/2025																																
SCALE: 1:2,803 SHEET SIZE: A3 COLOUR COORDINATE REFERENCE SYSTEM: GDA2020 / MGA zone 50 DATA SOURCE: Nearmap Imagery (02 September 2024)		CLIENT: Cityplaza Pty Ltd PROJECT NUMBER: A24_202 VERSION: 0 DATE: 15/1/2025		DRAWN BY / REVIEWED BY: JP/DW		NOTES: Customer boundary from LANDSAT 2022. Sheet corresponds to the vegetation association number.																														

G:\GIS\Project Data\2024\A24_202\A24_202_BMP\A24_202_BMP.pptx



4. Responsibilities for Implementation and Management of Bushfire Management Measures

Responsibility for implementation of the bushfire risk management measures outlined in Section 3 of this BMP applies to the developer, future owners/builders within the subject site and the local government. Table 4 provides a works program detailing these measures, timing of implementation and responsibility.

Table 4: Proposed Works Program

No.	Bushfire management measure
Developer responsibilities - Prior to issue of Titles	
1	Ensure APZs are established and maintained as per Figure 7.
2	Ensure vegetation within the POS reserves is modified to low threat.
3	Ensure vegetation within the ROS reserve is modified to low threat or establish a 21m wide low threat buffer along the boundary adjacent to the proposed lots.
4	Construct public road network (including cul-de-sac) to the technical requirements in Appendix D.
5	Provide reticulated water supply and hydrants in accordance with relevant technical requirements.
6	Certify the BAL ratings for all lots following completion of the subdivision works for each stage.
Developer / Landowner responsibilities - Ongoing	
7	Maintain APZs to the standards in Appendix C.
8	Maintain the POS reserves and ROS reserve in a low threat state.
Future landowners / Builder responsibilities - Ongoing	
9	Construct dwellings to relevant construction standard in AS 3959: 2018.



5. Conclusion

In the professional opinion of the author, the proposed LSP and subdivision satisfies the intent, aim and objectives of SPP 3.7 and the Guidelines and is recommended for approval.

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



6. References

Department of Fire and Emergency Services (DFES). (2024). *Map of Bush Fire Prone Areas*. Retrieved on 2 October 2024 from:

<http://www.dfes.wa.gov.au/regulationandcompliance/bushfireproneareas/Pages/default.aspx>.

Emerge Associates (2021). Lots 2, 3 & 6 Midland Road, Helena Valley - Foreshore & Public Open Space Plan.

Standards Australia (SA). (2018). *Construction of buildings in bushfire-prone areas* (AS 3959: 2018).

Western Australian Planning Commission (WAPC). (2024a). *State Planning Policy 3.7 Bushfire*. Government of Western Australia.

Western Australian Planning Commission (WAPC). (2024b). *Planning for Bushfire Guidelines*. Government of Western Australia.

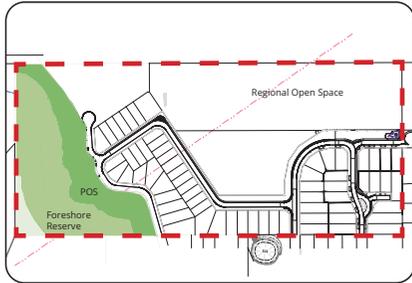


Appendix A: Foreshore and Public Open Space Plan

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*

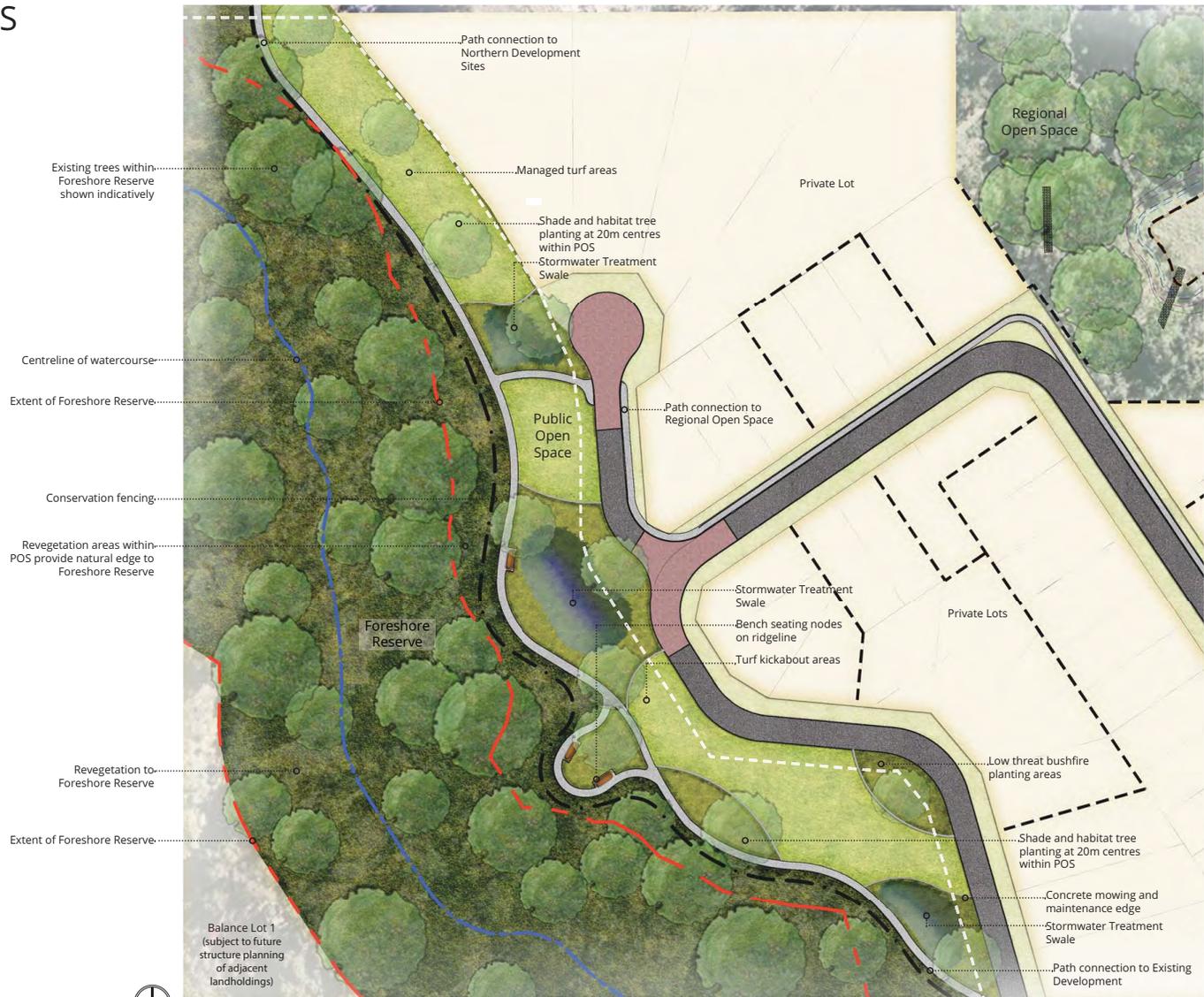
Foreshore Reserve & POS

LOCATION PLAN



LEGEND

- Foreshore Reserve Boundary
- Centreline of Watercourse
- POS Lot Boundary
- Conservation Fencing
- Existing Native Tree Planting
- Shade and Habitat Tree at 20m spacings
- Native Low fire Threat Shrub Planting Areas
- Revegetation Planting
- 2.1m Wide Concrete Path
- Informal / Bench Seating
- Turf areas
- Concrete Mowing/ Maintenance edge
- Road Treatments
- Stormwater Treatment Swale



CONCEPT PLAN

DWG - ENV-HV-FMP
 REV - C
 DATE - Oct 2021
 SCALE - 1:1000 at A3

© THIS DRAWING CAN NOT BE PUBLISHED OR DISPLAYED WITHOUT THE WRITTEN PERMISSION OF THE CLIENT AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY AND MAY ALTER WITHOUT NOTIFICATION.

LOTS 2, 3 & 6 MIDLAND ROAD, HELENA VALLEY

FORESHORE & PUBLIC OPEN SPACE PLAN



Integrated Science & Design



Appendix B: Classified Vegetation Photos

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



<p>Plot 1</p> <p>Photo 1 Trees to 30 m in height to the north of the subject site. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be downslope 5 - 10 degrees. Note: Drone imagery was used due to access restrictions.</p>	<p>Class A Forest</p> 
<p>Plot 1</p> <p>Photo 2 Trees to 30 m in height to the north of the subject site. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be downslope 5 - 10 degrees. Note: Drone imagery was used due to access restrictions.</p>	<p>Class A Forest</p> 
<p>Plot 2</p> <p>Photo 3 Trees to 30 m in height within the subject site along Kadina Brook. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be downslope 0 - 5 degrees.</p>	<p>Class A Forest</p> 

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



<p>Plot 2</p>	<p>Class A Forest</p>
<p>Photo 4</p> <p>Trees to 30 m in height within the subject site along Kadina Brook. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be downslope 0 - 5 degrees.</p>	
<p>Plot 3</p>	<p>Class A Forest</p>
<p>Photo 5</p> <p>Trees to 30 m in height within the subject site along Kadina Brook. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be flat/upslope.</p>	
<p>Plot 3</p>	<p>Class A Forest</p>
<p>Photo 6</p> <p>Trees to 30 m in height to the north of the subject site. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be flat/upslope. Note: Drone imagery was used due to access restrictions.</p>	

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



<p>Plot 3</p>	<p>Class A Forest</p>
<p>Photo 7 Trees to 30 m in height to the south of the subject site. The overstorey is dominated by Eucalypt species with canopy cover greater than 30% and the vegetation structure within the plot is multi-tiered. The slope under this vegetation was assessed to be flat/upslope.</p>	
<p>Plot 3</p>	<p>Class A Forest</p>
<p>Photo 8 Trees to 30 m in height within the subject site. The overstorey canopy cover is greater than 30% and the vegetation structure within this plot is multi-tiered. The slope under this vegetation was assessed to be flat/upslope.</p>	
<p>Plot 4</p>	<p>Class B Woodland</p>
<p>Photo 9 Trees to 30 m in height with the overstorey dominated by Eucalypt species. The overstorey canopy cover is less than 30% with predominantly grassy understorey. The slope under this vegetation was assessed to be flat/upslope.</p>	

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
 Midland Road, Helena Valley



<p>Plot 4</p>	<p>Class B Woodland</p>
<p>Photo 10 Trees to 30 m in height with the overstorey dominated by Eucalypt species. The overstorey canopy cover is less than 30% with predominantly grassy understorey. The slope under this vegetation was assessed to be flat/upslope.</p>	<p>18 Sept 2024 2:24:52 pm 31.9116S 116.0251E ±3.00m 232° SW</p> 
<p>Plot 5</p>	<p>Class D Scrub</p>
<p>Photo 11 Shrubs greater than 2m in height along Gray Road. The structure is multi-tiered and overall foliage cover is greater than 30%. The slope under this vegetation was assessed to be flat/upslope.</p>	<p>18 Sept 2024 2:30:15 pm 31.9127S 116.0244E ±4.00m 144° SE</p> 
<p>Plot 5</p>	<p>Class D Scrub</p>
<p>Photo 12 Shrubs greater than 2m in height along Gray Road. The structure is multi-tiered and overall foliage cover is greater than 30%. The slope under this vegetation was assessed to be flat/upslope.</p>	<p>18 Sept 2024 2:29:40 pm 31.9125S 116.0247E ±4.00m 201° S</p> 

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



Plot 6	Class G Grassland
<p>Photo 13 Open paddocks to the north of the subject site with grasses greater than 100mm in height and isolated trees less than 10% foliage cover. The slope under this vegetation was assessed to be flat/upslope. Note: Drone imagery was used due to access restrictions.</p>	
<p>Photo 14 Open paddocks to the north of the subject site with grasses greater than 100mm in height and isolated trees less than 10% foliage cover. The slope under this vegetation was assessed to be flat/upslope. Note: Drone imagery was used due to access restrictions.</p>	
<p>Photo 15 Open paddocks to the north of the subject site with grasses greater than 100mm in height and isolated trees less than 10% foliage cover. The slope under this vegetation was assessed to be flat/upslope.</p>	

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



<p>Plot 6</p>	<p>Class G Grassland</p>
<p>Photo 16 Area of grassy regrowth greater than 100mm in height. The slope under this vegetation was assessed to be flat/upslope.</p>	
<p>Plot 6</p>	<p>Class G Grassland</p>
<p>Photo 17 Grassy areas currently flooded assumed to be unmanaged and greater than 100mm in height during the bushfire season. The slope under this vegetation was assessed to be flat/upslope.</p>	
<p>Plot 7</p>	<p>Excluded - clause 2.2.3.2 (b)</p>
<p>Photo 18 Vegetation surrounding the existing drainage swale near the intersection of Delbi Way and Allamanda Gate. The vegetation is less than 1ha in area and more than 100m from areas of classified vegetation.</p>	

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



<p>Plot 7</p>	<p>Excluded - clause 2.2.3.2 (b)</p>
<p>Photo 19 Vegetation surrounding the existing drainage swale near the intersection of Delbi Way and Allamanda Gate. The vegetation is less than 1ha in area and more than 100m from areas of classified vegetation.</p>	
<p>Plot 8</p>	<p>Excluded - clause 2.2.3.2 (e)</p>
<p>Photo 20 Stages 1 and 2 of the subdivision which have been cleared of vegetation.</p>	
<p>Plot 8</p>	<p>Excluded - clause 2.2.3.2 (e)</p>
<p>Photo 21 Existing residential street devoid of vegetation and low threat public open space.</p>	

WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley



Plot 8	Excluded - clause 2.2.3.2 (e)
<p>Photo 22 Existing cleared areas throughout the subject site.</p>	
<p>Photo 23 Existing streets and residential buildings devoid of vegetation.</p>	
<p>Photo 24 Stages 1 and 2 of the subdivision which have been cleared of vegetation.</p>	

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



<p>Plot 8</p>	<p>Excluded - clause 2.2.3.2 (e)</p>
<p>Photo 25 Stages 1 and 2 of the subdivision which have been cleared of vegetation.</p>	
<p>Plot 9</p>	<p>Excluded - clause 2.2.3.2 (f)</p>
<p>Photo 26 (background) Fruit orchard which contains low threat vegetation. Note: Drone imagery was used due to access restrictions.</p>	
<p>Plot 9</p>	<p>Excluded - clause 2.2.3.2 (f)</p>
<p>Photo 27 Public parkland containing low threat vegetation.</p>	

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



<p>Plot 9</p>	<p>Excluded - clause 2.2.3.2 (f)</p>
<p>Photo 28 (Background) Public parkland containing low threat vegetation.</p>	
<p>Plot 9</p>	<p>Excluded - clause 2.2.3.2 (f)</p>
<p>Photo 29 Low threat landscaping on residential properties.</p>	 <p>18 Sept 2024 2:26:55 pm 31.9124S 116.0275E ±4.00m 135° SE</p>

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



Appendix C: APZ Technical Requirements

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



The following standards have been extracted from the Planning for Bushfire Guidelines (WAPC, 2024b).

Every habitable building is to be surrounded by, and every proposed lot can achieve, an APZ depicted on submitted plans, which meets the following requirements:

- a. Width: the APZ is measured from the development site, and of sufficient size to ensure the radiant heat impact of a bushfire does not exceed 29kW/m² (BAL-29) in all circumstances.
- b. Location: the APZ should be contained solely within the boundaries of the lot, except in instances where:
 - o the vegetation on the adjoining lot(s) is, and will continue to be, low threat as per Clause 2.2.3.2 of AS 3959 or the APZ technical requirements, or an alternative standard on a local planning scheme, on an ongoing basis in perpetuity; or
 - o the adjoining land is and will remain in perpetuity, non-vegetated.
- c. Management: the APZ is managed in accordance with the APZ technical requirements (below), or an alternative standard in a gazetted local planning scheme.

APZ Technical Requirements

Object	Requirement
Fences within the APZ	Should be constructed from non-combustible materials (for example, iron, brick, limestone, metal post and wire, or bushfire-resisting timber referenced in Appendix F of AS 3959).
Fine fuel load (Combustible, dead vegetation matter less than 6 mm in thickness)	<ul style="list-style-type: none"> • Should be managed and removed on a regular basis to be maintained as a low threat vegetation. • Should be maintained at less than two tonnes per hectare (on average). • Mulches should be non-combustible such as stone, gravel, shells, rock or crushed mineral earth or wood mulch more than five millimetres in thickness.
Trees* (more than 6 m in height)	<ul style="list-style-type: none"> • Trunks at maturity should be a minimum distance of six metres from all elevations of the building. • Branches at maturity should not touch or overhang a building or powerline. • Lower branches and loose bark should be removed to a height of two metres above the ground and/or surface vegetation. • Canopy cover within the APZ should be less than 15 per cent of the total APZ area. • Tree canopies at maturity should be at least 5 m apart to avoid forming a continuous canopy. Stands of existing mature trees with interlocking canopies may be treated as an individual canopy provided the total canopy cover within the APZ does not exceed 15 per cent and is not connected to the tree canopy outside the APZ. <div style="text-align: center;"> <p>The diagram consists of three 2x2 grids of circles representing tree canopies. The first grid is labeled '15%' and shows sparse, widely spaced circles. The second grid is labeled '30%' and shows a moderate density of circles. The third grid is labeled '70%' and shows a high density of overlapping circles.</p> </div> <p><i>Tree canopy cover – ranging from 15 to 70 per cent at maturity</i></p>

*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



Object	Requirement
Shrub* and scrub* (0.5 m to 6 m in height). Shrub and scrub more than 6 m in height are to be treated as trees.	<ul style="list-style-type: none"> • Should not be located under trees or within three metres of buildings. • Should not be planted in clumps more than five square metres in area. • Clumps should be separated from each other and any exposed window or door by at least 10 metres.
Ground cover*(less than 0.5 m in height. Ground cover more than 0.5 m in height is to be treated as shrub)	<ul style="list-style-type: none"> • Can be planted under trees but must be maintained to remove dead plant material, as prescribed in 'Fine fuel load' above • Can be located within two metres of a structure but three metres from windows or doors if more than 100 mm in height.
Grass	<ul style="list-style-type: none"> • Grass should be maintained at a height of 100 mm or less, at all times • Wherever possible, perennial grasses should be used and well-hydrated with regular application of wetting agents and efficient irrigation.
Defendable space	Within three metres of each wall or supporting post of a habitable building; the area is kept free from vegetation but can include ground cover, grass and non- combustible mulches as prescribed above.
Liquid petroleum gas cylinders	<ul style="list-style-type: none"> • Should be located on the side of a building farthest from the likely direction of a bushfire or on the side of a building where surrounding classified vegetation is upslope, at least one metre from vulnerable parts of a building. • The pressure relief valve should point away from the house. • No flammable material within six metres from the front of the valve. • Must sit on a firm, level and non-combustible base and be secured to a solid structure.
* Plant flammability, landscaping design and maintenance should be considered - refer to explanatory notes in the Guidelines.	

Additional Notes:

An Asset Protection Zone (APZ) is a low fuel area, maintained around a building to increase the likelihood a building will survive a bushfire, by reducing the potential for direct flame contact, radiant heat exposure and ember attack. The APZ allows emergency services access and provides an area for firefighters and homeowners to defend their property.

An APZ should be contained within the boundaries of the lot on which the building is situated, except in instances where it is demonstrated the vegetation on the adjoining land is, and will continue to be, low threat as per cl. 2.2.3.2 of AS 3959, or the vegetation on the adjoining lot is, and will remain in perpetuity, non-vegetated. However, it should be noted there is no requirement for a neighbouring landowner or land manager (public or private) to be party to a legal agreement to undertake ongoing management of vegetation as low threat, in perpetuity.



Appendix D: Vehicular Access Technical Requirements

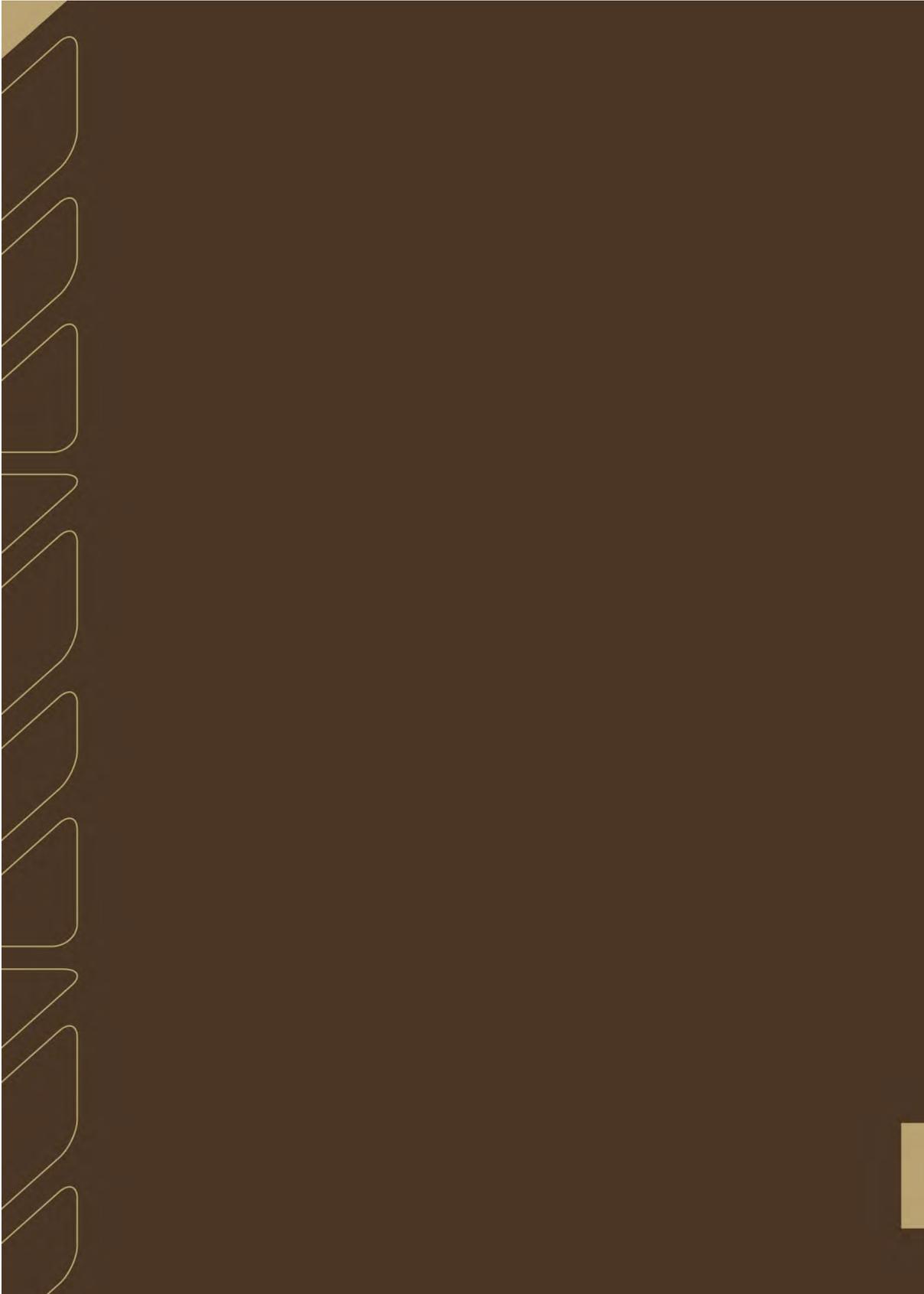
*WEPL Report: Bushfire Management Plan: Local Structure Plan and Subdivision Application
Midland Road, Helena Valley*



Technical requirements	Perimeter Roads		Public Roads		Emergency Access Way ³		Fire Service Access Route ³		Battle-Axe and Private Driveways ¹	
	Area 2	Area 1	Area 2	Area 1	Area 2	Area 1	Area 2	Area 1	Area 2	Area 1
Map of Bush Fire Prone Areas Designation										
Minimum horizontal clearance (m)	12	8	See note 5		10	6	10	6	6	
Minimum vertical clearance (m)	4.5									
Minimum weight capacity (t)	15									
Maximum grade unsealed road ²					1:10 (10% or 6 degrees)					
Maximum grade sealed road ^{2, 4}	See note 5		See note 5		1:7 (14.3% or 8 degrees)					
Maximum average grade sealed road					1:10 (10% or 6 degrees)					
Minimum inner radius of road curves (m)					8.5					

Notes:

1. Driveways and battle-axe legs to comply with the Residential Design Codes and Development Control Policy 2.2 Residential Subdivision where not required to comply with the widths in this Appendix or the Guidelines.
2. Dips must have no more than a 1 in 8 (12.5% - 7.1 degrees) entry and exit angle.
3. To have crossfalls between 3 per cent and 6 per cent.
4. For sealed roads only the maximum grade of no more than 1 in 5 (20 per cent) (11.3 degrees) for no more than 50 metres is permissible, except for short constrictions to 3.5 metres for no more than 30 metres in length where an obstruction cannot be reasonably avoided or removed.
5. As outlined in the Institute of Public Works Engineering Australasia (IPWEA) subdivision guidelines, Liveable Neighbourhoods, Austroads Standards Main Roads standard, supplement, policy or guideline and/or any applicable or relevant local government standard or policy.



Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland

Road Helena Valley

Project No: EP21-019(03)

Prepared for City Plaza Pty Ltd
May 2022

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Document Control

Doc name: Foreshore Management Plan Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley					
Doc no.: EP21-019(03)--001E MS					
Version	Date	Author	Reviewer		
1	July 2021	Sarah Paul	SKP	Tom Atkinson	TAA
	For client review				
A	July 2021	Tom Atkinson	TAA	Rachel Weber	RAW
	Updated based on client comments				
B	July 2021	Tom Atkinson	TAA	Rachel Weber	RAW
	Further changes requested by client				
C	October 2021	Tom Atkinson	TAA	Tom Atkinson	TAA
	Updated based on Shire of Mundaring and DWER comments				
D	October 2021	Tom Atkinson	TAA	Tom Atkinson	TAA
	Minor updates to Figures				
E	May 2022	Melanie Schubert	MS	Tom Atkinson	TAA
	Updated based on comments provided by the Shire of Mundaring following meeting between the Shire of Mundaring and DBCA				

© 2022 Emerge Associates All Rights Reserved. Copyright in the whole and every part of this document belongs to Emerge Associates and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person without the prior written consent of Emerge Associates.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Executive Summary

City Plaza Pty Ltd is progressing the subdivision of Lots 2, 3 and 6 Midland Road in Helena Valley (the 'site') for residential purposes. The site is located in the Shire of Mundaring.

This *Foreshore Management Plan* (FMP) has been prepared to address a condition of subdivision approval to ensure the protection and management of Kadina Brook which flows through the site (Western Australian Planning Commission (WAPC) application no. 156909).

The purpose of this FMP is to define a foreshore reserve and outline the management actions that are proposed within the foreshore.

Two primary goals are identified for the FMP:

1. Revegetate native vegetation within the Kadina Brook foreshore reserve and adjacent POS.
2. Provide public use facilities within the adjacent POS without negatively affecting the Kadina Brook.

Specific objectives are then provided for each goal, along with management actions relating to revegetation, construction and a monitoring and evaluation framework covering a three-year implementation period.

The site is divided into the following five management areas that reflect approaches to achieving the goals for management:

- landscape planting
- turf
- stormwater treatment swales
- revegetation 1
- revegetation 2
- revegetation 3.

The actions within the FMP are the responsibility of City Plaza Pty Ltd until handover to the Shire of Mundaring and thereafter will be at the discretion of the Shire of Mundaring and to the Shire's standards. All contractors engaged to undertake works within the site by these parties will be required to adhere to this plan.

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



This page has been left blank intentionally.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table of Contents

1	Introduction	1
1.1	Scope and purpose	1
2	Existing Environment	2
2.1	Topography	2
2.2	Hydrology	2
2.3	Vegetation	2
2.4	Fauna habitat	5
3	Subdivision Design	6
4	Goals and objectives	7
5	Implementation	8
5.1	Management areas	8
5.2	Management actions	8
5.2.1	Weed and pathogen prevention	8
5.2.2	Fauna management	8
5.3	Erosion control	9
5.3.1	Public infrastructure	9
5.3.1.1	Fencing	9
5.3.1.2	Dual Use Path	9
5.3.1.3	Lighting	9
5.3.2	Landscape planting and maintenance	10
5.3.3	Turf installation and maintenance	10
5.3.4	Stormwater treatment swales	11
5.3.5	Firebreaks	11
5.3.6	Revegetation	11
5.3.7	Timing	14
5.3.8	Contingency	14
5.4	Monitoring and evaluation	15
5.5	Roles and responsibilities	16
5.6	Timeframes	16
6	Conclusion and Summary	17
7	References	23
7.1	General references	23
7.2	Online references	23

List of Tables

Table 1:	Goals, objectives and the timeframes for the site	7
Table 2:	Dominant weeds in the site and recommended control methods (DBCA 2021).	12
Table 3:	Species recommended to be planted in each revegetation area within the foreshore reserve	13
Table 4:	Contingency examples	14
Table 5:	Management actions and responsibilities	19

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



List of Plates

Plate 1: The Kadina Brook channel and riparian vegetation (plant community **ErMrLOF**) in 'degraded – completely degraded' condition. 3

Plate 2: The Kadina Brook channel showing 'degraded' plant community **ErMrLOF**, high weed cover and historic landform modification. 4

Plate 3: Altered landform adjacent to the Kadina Brook in south-eastern extent of the foreshore reserve..... 4

Figures

Figure 1: Site Location

Figure 2: Environmental Features

Figure 3: Plant Communities

Figure 4: Vegetation Condition

Figure 5: Foreshore Reserve

Figure 6: Management Areas and Public Infrastructure

Appendices

Appendix A
Subdivision Concept

Appendix B
Concept Landscape Plan

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Abbreviation Tables

Table A1: Abbreviations – Organisations

Organisations	
DBCA	Department of Biodiversity, Conservation and Attractions
DPLH	Department of Planning, Lands and Heritage
DWER	Department of Water and Environment Regulation
UFI	Unique feature identifier
WAPC	Western Australian Planning Commission

Table A2: Abbreviations – General terms

General terms	
CBD	Central business district
DUP	Dual use path
MUW	Multiple use wetland
POS	Public open space
REW	Resource enhancement wetland

Table A3: Planning

Planning terms	
FMP	Foreshore management plan
LPS	Local Planning Scheme
LWMS	Local water management strategy
MRS	Metropolitan region scheme

Table A4: Abbreviations – units of measurement

Units of measurement	
g/L	Grams per litre
ha	Hectare
MGL	Maximum groundwater level
m	Metre
mAHD	Metres Australia Height Datum
mm	Millimetre
m ²	Square metre
Km	Kilometre

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



This page has been left blank intentionally.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



1 Introduction

City Plaza Pty Ltd is progressing residential subdivision of Lots 2, 3 and 6 Midland Road, Helena Valley in the Shire of Mundaring for residential purposes (herein referred to as 'the site'), as shown on **Figure 1**.

This *Foreshore Management Plan* (FMP) has been prepared to address condition 9 of the Western Australian Planning Commission (WAPC) subdivision approval for the site (application no. 156909), which requires that:

Prior to the commencement of subdivision works a foreshore management plan for Kadina Brook is to be prepared and approved in consultation with Department of Biodiversity, Conservation and Attractions (Estuaries Division) and Department of Water and Environmental Regulation to ensure the protection and management of the sites environmental assets with satisfactory arrangements being made for the implementation of the approved plan.

The Kadina Brook is a minor non-perennial watercourse that runs through the south-western portion of the site, connecting with the Helena River approximately 500 m to the north-west of the site.

1.1 Scope and purpose

This FMP relates to the Kadina Brook foreshore reserve and adjacent areas of public open space as outlined in the subdivision concept provided as **Appendix A**.

The purpose of this FMP is to communicate the arrangements made for the site to ensure the protection and management of environmental values as per Condition 9 (WAPC no. 156909).

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



2 Existing Environment

2.1 Topography

The topography across is relatively flat with much of the eastern half of the site at an elevation of 14 to 17 m in relation to the Australian height datum (m AHD). Local low points are present in the northern and western portions of the site and ranges from 9 m AHD to the north of the site, backing onto the Helena River to 12 m AHD in Kadina Brook to the west.

The Kadina Brook waterway itself is a very well-defined but narrow channel as shown below in **Plate 1**. East of the Kadina Brook some landform has been modified, particularly adjacent to an area of hardstand.

The topography of the site and surrounding area is shown in **Figure 2**.

2.2 Hydrology

The Kadina Brook runs through the south-western portion of the site, connecting with the Helena River approximately 500 m to the north-west of the site (**Figure 2**). The Department of Water and Environmental Regulation (DWER's) flood mapping for the Helena River shows that the boundary of the 1 in 100-year floodway lies on the northern boundary of the site, and that a small area of flood fringe extends into the central northern portion of the site (**Figure 2**).

A foreshore area for Kadina Brook was agreed with DWER as best defined by a 30 m setback from the Kadina Brook channel.

Two 'resource enhancement' wetlands (REWs) occur on the western half of the site (DBCA 2020). 'Unique feature identifier' (UFI) 15885 is 'floodplain' associated with Kadina Brook. UFI 14230 is mapped over a small area at the northern most edge of the site which is associated with the Helena River that occurs to the north of the site. The UFI 15884 is mapped to the east of Kadina Brook. The features mapped within the site are shown on **Figure 2**.

2.3 Vegetation

A number of flora and vegetation investigations within the site were undertaken between 2011-2014 (RPS 2011; Emerge Associates 2014).

Generally, the vegetation in the site shows evidence of significant historical and contains:

- six plant communities (consisting of four native plant communities and two non-native plant communities)
- vegetation in 'good – degraded' to 'completely degraded' condition according to the Keighery (1994) scale.
- no threatened or priority flora species or communities.
- two 'declared pest' species under Western Australia's *Biosecurity and Agriculture Management Act 2007* (BAM Act); **Gomphocarpus fruticosus* (cotton bush) and **Zantedeschia aethiopica* (arum lily).

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Plant community **ErMrLOF** was identified as occurring over the majority of Kadina Brook. This vegetation is described as comprising a low open forest of *Eucalyptus rudis* over isolated trees to low open woodland of *Melaleuca raphiophylla* over occasional dense patches of **Gomphocarpus fruticosus* over sparse sedgeland of *Juncus kraussii* fringing the creek lines, and **Cynodon dactylon*, **Paspalum dilatatum* and **Lolium rigidum* closed grassland (Emerge Associates 2014). Plant community **CcOF** occurs over the south-eastern most portion of Kadina Brook is mapped. This vegetation is described as comprising of an open forest of *Corymbia calophylla*, *Eucalyptus rudis* and *E. wandoo* subsp. *wandoo* over scattered *Acacia pulchella* and *Juncus kraussii* (or native species absent in understorey) and closed grassland including **Lolium rigidum*, **Ehrharta longifolia* and **Avena barbata* (Emerge Associates 2014) (shown on **Figure 3**).

Vegetation within Kadina Brook was mapped as being in 'degraded' or 'degraded – completely degraded' condition (Emerge Associates 2014), as shown in **Figure 4**.



Plate 1: The Kadina Brook channel and riparian vegetation (plant community **ErMrLOF**) in 'degraded – completely degraded' condition.

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Plate 2: The Kadina Brook channel showing 'degraded' plant community ErMrLOF, high weed cover and historic landform modification.



Plate 3: Altered landform adjacent to the Kadina Brook in south-eastern extent of the foreshore reserve

2.4 Fauna habitat

Fauna habitat in the site has limited values for terrestrial fauna, albeit small or medium sized native mammals and reptiles may utilise grass and weedy understorey for cover (RPS 2011). The Shire of Mundaring have advised that *Chelodina oblonga* (south-western oblong turtle), *Isoodon fusciventer* (quenda) and *Macropus fuliginosus* (western grey kangaroo) populations occur in/near the waterbody along the southern boundary of the site. Tree canopy provides habitat for birds and arboreal fauna and wetland and watercourse provide movement corridor for fauna generally (RPS 2011).

3 Subdivision Design

The subdivision concept is provided as **Appendix A**. The subdivision concept proposes a 'foreshore reserve' 30 m either side of Kadina Brook and an adjacent area of public open space (POS) to the east.

The foreshore reserve encompasses the full extent of REW 15885 and the majority of the riparian vegetation, as shown in **Figure 5**.

The POS area will encompass additional riparian vegetation, as well as landscaped areas and public access infrastructure (**Figure 6**). Augmenting foreshore reserves with additional public open space is consistent with the Shire of Mundaring *Foothills Growth Strategy* (Shire of Mundaring 2017) and the approach taken for the Kadina Brook in recent adjoining residential subdivisions.

Stormwater management is outlined in the *Urban Water Management Plan* (UWMP) (DEC 2021).

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



4 Goals and objectives

Given the pre-existing degraded to completely degraded condition of the Kadina Brook foreshore, significant effort will be required to achieve even modest restoration outcomes within the site.

Two primary goals are identified for the FMP:

1. Revegetate native vegetation within the Kadina Brook foreshore reserve and adjacent POS.
2. Provide public use facilities within the adjacent POS without negatively affecting the Kadina Brook.

To guide implementation specific objectives are identified that relate to each goal as shown in **Table 1**. The objectives provide a basis for monitoring and evaluating the performance of works undertaken under the FMP.

Table 1: Goals, objectives and the timeframes for the site

Goal	Objectives	Timeframe
1. Revegetate native vegetation within the Kadina Brook foreshore reserve and adjacent POS.	1.1 Weed cover is less than 10% across revegetation areas.	3 years from commencement of works
	1.2 No new weeds are introduced as a direct result of construction activities	
	1.3 Native plant density is on average greater than 0.1 per m ² for tree and shrubs and 2 per m ² for sedges/rushes across revegetation areas.	
	1.4 No formal public access	
2. Provide public use facilities within the adjacent POS without negatively affecting the adjacent Kadina Brook.	2.1 Rubbish not present or minimal	From practical completion until handed over to the Shire of Mundaring
	2.2 All pedestrian paths in good useable condition	
	2.3 Signage intact and in good condition	
	2.4 No existing native trees damaged or impacted by path construction	
	2.5 No (or minimal) existing native understorey vegetation damaged or impacted by path construction	
	2.6 All facilities in good working order	
	2.7 Formal public access (paths and boardwalks)	
	2.8 Informal public access (turf and other areas)	
	2.9 Minimal irrigation overspray to hardstand and other non-turfed areas	
	2.10 Stormwater treatment before discharge into the foreshore reserve and Kadina Brook	

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



5 Implementation

5.1 Management areas

The site is divided into the following five management areas that reflect approaches to achieving the goals for management:

- landscape planting
- turf
- stormwater treatment swales
- revegetation 1
- revegetation 2
- revegetation 3.

Management areas are shown on **Figure 6**.

5.2 Management actions

Management actions will broadly include:

- weed and pathogen prevention (refer to **Section 5.2.1**)
- installation of public infrastructure (refer to **Section 5.3.1**)
- landscape planting and turf establishment (refer **Section 5.3.2** and **Section 5.3.3**)
- revegetation with native species (refer to **Section 0**)
- monitoring and evaluation (refer to **Section 5.3.7**).

5.2.1 Weed and pathogen prevention

Actions to minimise the spread and/or introduction of weeds and plant pathogens such as *Phytophthora cinnamomi* (dieback) and *Quambalaria coyrecup* (marri canker) will be undertaken in all management areas through unauthorised access control.

During construction, landscape planting or revegetation, all vehicles, personnel, machinery, tools, equipment and clothing will be clean and free of all mud, soil and plant material (especially weed seed) on arrival at the site. If present, all visible soil and plant material will be removed. If large amounts of material is present, a full wash-down off-site or within clean-down area will be undertaken.

5.2.2 Fauna management

Prior to clearing or earthworks in the POS, fauna management will be conducted to mitigate potential impacts as agreed with the Shire of Mundaring. Fauna management will be undertaken by an experienced fauna specialist under valid Biodiversity and Conservation Act 2016 license obtained from the Department of Biodiversity, Conservation and Attractions (DBCA). If possible, clearing will be undertaken outside of the main breeding season (spring). Clearing should also be undertaken in a single direction to allow fauna to disperse safely.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Southwestern oblong turtles will be relocated from the waterbody prior to disturbance. Relocation methods may include the use of aquatic traps and/or draining of the lake to retrieve any turtles present. South-western oblong turtles will be relocated to suitable habitat at a location agreed upon with DBCA.

5.3 Erosion control

Erosion control will be implemented during construction to prevent silt, sand and/or gravel from being lifted by wind or suspension by stormwater runoff in line with the approved *Erosion and Sedimentation Management Plan*¹(Emerge Associates 2022)as follows:

- All vegetation identified for retention within the POS will be adequately protected from damage during works by temporary fencing to prevent access.
- Stockpiles will be located away from existing POS infrastructure and completed landscape planting and revegetation planting areas. Stockpiles will be stabilised or covered, if possible.
- Vehicles and equipment movement will be limited to a single approved and stabilised construction entrance and prepared parking areas.
- All access tracks, stockpiles and other disturbed areas shall be regularly watered to prevent wind erosion.
- Sediment movement from access tracks, stockpiles and other disturbed areas will be regularly monitored and sediment recovered before it is exported into landscape planting, stormwater treatment swales or revegetated areas.

5.3.1 Public infrastructure

5.3.1.1 Fencing

If required by the Shire of Mundaring, conservation style fencing to Shire of Mundaring standard specification will be installed within revegetation area 3 as shown on **Figure 6**. The conservation fencing will form a barrier to pedestrian and vehicle access to the majority of revegetation areas and the foreshore reserve. The fencing will be permeable to small or medium sized ground based native fauna movement. Gates or access points will be included in fencing if required, as agreed with the Shire of Mundaring.

5.3.1.2 Dual Use Path

A dual use path (DUP) which will cater for pedestrians, bicycles, prams and wheelchair users will be constructed within the POS as shown on **Figure 6**.

5.3.1.3 Lighting

Solar powered lighting will be installed within the POS to increase safety for pedestrians. The International Commission of Illumination's *Guide on the Limitation of Effects of Obtrusive Light from Outdoor Lighting Installations* (ICI 2017) will be implemented for all lighting within the site.

¹ In preparation

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Lighting infrastructure within the site will include structures and/or methods to direct light within the site and illuminate only the necessary infrastructure or immediate area. Due to the type of lighting to be installed, there will be minimal to no light spill to the Kadina Brook, nearby vegetation or the sky. As per DBCAs recommendations, light spill to the Kadina Brook and to vegetation within the foreshore reserve will be no more than 0.01-0.03 lux (moonlight) to ensure no adverse ecological consequences. Yellow globes will be installed in lighting in place of white lights, to reduce the extent to which mosquitoes and midges are attracted to the light.

5.3.2 Landscape planting and maintenance

Landscape planting areas will be established as mulched garden beds and planted with native low fire threat species as determined by specialist bushfire assessor².

Landscape planting areas will be maintained as non-irrigated long-term. Temporary irrigation will be applied to assist plant establishment. The irrigation design will take into account the water requirements of native plant species and aim to irrigate 'little and often'. Irrigation will be ceased once plants are established.

Minimal slow-release fertiliser will be applied as appropriate for native species which have low fertilizer requirements.

Weed control³ and maintenance will be completed as required.

5.3.3 Turf installation and maintenance

The landscape concept for the POS has minimised areas of turf.

Turf areas will be prepared by importing free draining clean sand fill to a minimum depth of 800mm from existing ground levels to ensure adequate separation to groundwater (controlled) and ensure compliance with Shire of Mundaring requirements to ensure good turf health.

Turf will be irrigated at the minimum required to maintain healthy turf consistent with Shire of Mundaring standard practice.

Fertiliser will be applied to turf at low rates during warmer months when turf is actively growing to ensure absorption and reduce the risk of runoff. All fertilizer will be applied in accordance with DWER guidance *Fertiliser application on pasture or turf near sensitive water resources* (DoW 2010).

Weed control⁴, mowing and maintenance will be completed as required. Turf clippings and waste will be removed offsite to an appropriate waste facility.

² Refer detailed landscaping plans.

³ Herbicides will only be applied by a licenced pest management technician and in accordance with manufacturer's instructions as provided on product label.

⁴ Herbicides will only be applied by a Department of Health licenced pest management technician and in accordance with manufacturer's instructions as provided on product label.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



5.3.4 Stormwater treatment swales

Stormwater treatment swales will be constructed in the POS as indicated in **Appendix B** and on **Figure 6**. The location and extent of stormwater treatment swales will be confirmed as part of detailed landscape design⁵.

5.3.5 Firebreaks

Firebreaks will be re-established around the western and southern perimeter of the foreshore reserve or as agreed with the Shire of Mundaring.

5.3.6 Revegetation

Revegetation areas will be planted with tubestock of local native species. Revegetation works will adhere to any requirement of the *Remediation Action Plan* (Emerge Associates 2022).

Revegetation area 1 is associated with Kadina Brook as defined by the presence of channel/s and occupying the lowest topographical position (11 – 12.4 m AHD). Revegetation area 2 is associated with the banks of the Kadina Brook occupying a slightly higher topographical position (12.5-15 m AHD). Revegetation area 3 interfaces with landscape planting areas in the POS.

Landforms within revegetation areas 1 and 2 will not be modified. The landform within vegetation area 3 will be reshaped as required to ensure soils are stably integrated with levels in the rest of the POS suitable for use as a public reserve.

Weed control and identification of weed species will be completed in revegetation areas by a contractor experienced in management of natural areas in south-west Western Australia prior to planting. Following tubestock planting ongoing weed control measures will include at least two treatments (winter and summer). Initial weed control may include blanket or spot spraying using a broad-spectrum herbicide formulation such as Roundup® (glyphosate 360 g/L). Follow up weed control will include both manual (hand weeding) and chemical (herbicide) based approaches.

Herbicide use near Kadina Brook will be in accordance with the recommendations contained in 'Water Note No. 22 Herbicide Use in Wetlands' (WARC 2001). The application of these methods will be dependent on-site conditions and are likely to change over the course of this plan. The dominant weeds in the site and their potential control methods are listed in **Table 2**.

⁵ Refer detailed landscaping plans.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 2: Dominant weeds in the site and recommended control methods (DBCA 2021).

Species	Method	Techniques	Timing
*Echium plantagineum	Chemical	Spot spray in late autumn/winter when most seed has germinated for the year with 0.5 g/10 L chlorsulfuron + wetting agent. Glyphosate at 75 ml -100 ml/15 L or metsulfuron methyl 5 g/100 L applied at early flowering will control existing plants.	May - August
*Lathyrus tingitanus		Spot spray using 0.2 g metsulfuron(600 g/kg) plus 25 mL Pulse® in 10 L water	July - October
* Tropaeolum majus		Spot spraying during active growth with 20 mL glyphosate(450g/L) plus 25 mL wetting agent in 10 L water.	June - August
*Zantedeschia aethiopica		Wipe individual leaves with with metsulfuron methyl or chlorsulfuron at 0.4g/15L of water + Pulse®	June - November. Repeat spray 2 months later.
*Watsonia meriana		Wipe individual leaves with glyphosate 10% or spray dense infestations 2,2-DPA 10 g/L + Pulse®	September. Follow up as necessary.
*Ficus spp.	Chemical/ manual	Hand remove seedlings. Stem inject with 50% glyphosate and foliar spray regrowth with 10% glyphosate. For stems less than 30 cm diameter apply 250 ml Access® in 15 L of diesel to basal 50 cm of trunk (basal bark).	December - February
*Lupin spp.		Hand remove scattered plants. Spray dense infestations with metsulfuron methyl 0.1 g/15 L (2-3 g/ha) + wetting agent or spot spray Lontrel® 6 ml/10 L (300 ml/ha) + wetting agent to late flowering, this will prevent seed set.	July - October
*Raphanus raphanistrum		Hand remove isolated plants several times throughout the year. Spot spray 1% glyphosate before flowering. A combination of approaches is usually most successful.	June - December
*Arundo donax		For small infestations mowing, tillage and removal of material from site ensuring all rhizomes are removed may be sufficient. Larger infestations may require a single glyphosate foliar application at 3% to 5% late in the season to kill stems and stop production of new stems the following spring	February - March (chemical)
*Cynodon dactylon		Blanket spray with 1% glyphosate or Fusilade® Forte at 16 ml/L + wetting agent THEN Mechanical slashing/ripping	November – January (chemical)
*Paspalum dilatatum			
*Gomphocarpus fruticosus		Hand pull small plants before seed set. Foliar spray with glyphosate at 1.5% or cut and paint with glyphosate at 50%	September – December (manual and chemical)

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Tubestock will be sourced from a Nursery Industry Accreditation Scheme Australia (NIASA) accredited nursery supplier and grown from local⁶ seed or cuttings with genetic diversity. Native species planted in revegetation area 1 and 2 will include those listed in **Table 3**. Species planted in revegetation area 3 will be determined as part of detailed landscape design⁷.

Table 3: Species recommended to be planted in each revegetation area within the foreshore reserve

Lifeform	Species	Revegetation Area	
		1	2
Tree	Banksia grandis		X
	Corymbia calophylla		X
	Eucalyptus rudis		X
	Melaleuca preissiana		X
	Melaleuca rhapsiophylla	X	X
Shrub	Acacia pulchella		X
	Astartea scoparia	X	X
	Hakea trifurcata		X
	Hakea varia		X
	Hypocalymma angustifolium	X	X
	Jacksonia sternbergiana		X
	Kunzea recurva		X
	Melaleuca incana		X
	Melaleuca lateritia		X
	Melaleuca seriata		X
	Melaleuca viminea		X
	Regelia ciliata		X
	Regelia inops		X
	Viminaria juncea		X
	Herbs and groundcovers	Anigozanthos humilis	
Centella asiatica		X	
Conostylis aculeata			X
Dianella revoluta			X
Lobelia anceps		X	X
Patersonia occidentalis			X

⁶ Within 50 km

⁷ Refer detailed landscaping plans.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 3: Species recommended to be planted in each revegetation area within the foreshore reserve (continued)

Lifeform	Species	Revegetation Area	
		1	2
Sedge – spreading	Baumea juncea	X	
	Ficinia nodosa	X	X
	Lepidosperma longitudinale	X	
Rush – clumping	Juncus pallidus	X	X
	Juncus subsecundus	X	X
	Leptocarpus canus	X	X
	Leptocarpus scariosus	X	X

5.3.7 Timing

Landscape planting will commence following completion of landform construction and public facilities.

Tubestock will be installed as soon as possible once winter rains have begun to allow plants time for establishment before the summer dry period.

Once works commence the revegetation will be managed for a period of two and a half years from planting up until handover to the Shire of Mundaring.

5.3.8 Contingency

The management actions outlined in **Sections 5.1** aim to meet the goals and objectives for the foreshore reserve and POS. If it is identified that the goals and objectives are not met, contingency actions will be implemented that include, but not limited to, the management actions outlined in **Section 5.2**. A range of contingency response for unmet objectives are outlined in **Table 4**.

Table 4: Contingency examples

Goal	Objectives	Unplanned outcome	Contingency
1. Revegetate native vegetation within the Kadina Brook foreshore reserve and adjacent POS.	1.1 Weed cover is less than 10% across revegetation areas.	Weed cover is or is expected to be greater than 10 % across revegetation areas.	Weed control will be completed as per Section 0.
	1.2 No new weeds are introduced as a direct result of construction activities	New weeds are introduced as direct result of construction activities	Weed control will be completed as per Section 0.
	1.3 Native plant density is on average greater than 0.1 per m ² for tree species, 0.5 per m ² for shrubs and 2 per m ² for sedges/rushes across revegetation areas.	Native plant density is not on average greater than 0.1 per m ² for tree species, 0.5 per m ² for shrubs and 2 per m ² for sedges/rushes across revegetation areas.	Tubestock planting will be completed as per Section 0.
	1.4 No formal public access	N/A	N/A

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 4: Contingency examples (continued)

Goal	Objectives	Unplanned outcome	Contingency	
2	Provide public use facilities within the adjacent POS without negatively affecting the adjacent Kadina Brook.	2.1 Rubbish not present or minimal	Rubbish is present	Rubbish will be collected and disposed of in appropriate waste disposal receptacle
	2.2 All pedestrian paths in good useable condition	Pedestrian paths not in good useable condition	Repairs will be undertaken	
	2.3 Signage intact and in good condition	Signage is not intact or in good condition	Repairs or replacement will be undertaken	
	2.4 No existing native trees damaged or impacted by path construction	Existing native trees damaged or impacted by path construction	Discussion will be had with Shire of Mundaring and repair and repairs or replacement will be undertaken	
	2.5 No (or minimal) existing native understorey vegetation damaged or impacted by path construction	Existing native understorey vegetation is damaged or impacted by path construction	Discussion will be had with Shire of Mundaring and repair and repairs or replacement will be undertaken	
	2.6 All facilities in good working order	All facilities not in good working order	Repairs or replacement will be undertaken	
	2.7 Formal public access (paths and boardwalks)	Formal public access (paths and boardwalks) not present	Construction will be undertaken	
	2.8 Informal public access (turf and other areas)	Informal public access (turf and other areas) not present	Construction will be undertaken	
	2.9 Minimal irrigation overspray to hardstand and other non-turfed areas	Irrigation overspray to hardstand and other non-turfed areas not minimal	Repairs or replacement will be undertaken	

5.4 Monitoring and evaluation

Monitoring will be performed to assess the outcomes of management actions against the goals and objectives (**Table 1**) and to trigger contingency actions, if necessary.

As primary monitoring method, a routine inspection (walkover) will be carried out every three months to assess the site for the following:

- infrastructure condition (e.g. paths, fences)
- weed cover
- plant survival
- threats or impacts (e.g. herbivory, vandalism, plant disease).

At least three photographic monitoring locations ('photopoints') will be established within the foreshore reserve and POS during the first walkover. These photopoints will comprise a specific location at which a digital photograph will be taken at the same height and orientation during each walkover, to enable visual progress tracking.

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Additional monitoring will be undertaken within revegetation areas to provide a formal measure of weed cover and tubestock survival. Revegetation results will be reported to the Shire of Mundaring.

5.5 Roles and responsibilities

The implementation of this FMP will be the responsibility of the developer (City Plaza Pty Ltd) through their various parties.

All contractors engaged to undertake works within the site by these parties will be required to adhere to this plan.

5.6 Timeframes

Implementation of this FMP will be undertaken over multiple years. Construction of the POS and revegetation is expected to commence in 2022 (year 1).

Handover to the Shire of Mundaring will be two years following practical completion for the POS including landscaped planting, turf areas and part revegetation area 3⁸ and associated public infrastructure.

Revegetation areas within the foreshore reserve will be managed for a period of two and half years from planting (summer 2024) up until handover to the Shire of Mundaring.

⁸ Inside fence

6 Conclusion and Summary

This FMP has been prepared to address a condition of subdivision approval to ensure the protection and management of Kadina Brook which flows through the site (WAPC application no. 156909).

Once approved, this FMP, in conjunction with detailed landscape designs, will guide all works in the site.

A summary of management actions and responsibilities is outlined in **Table 5**.

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



This page has been left blank intentionally.

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 5: Management actions and responsibilities

No.	Timing	Management action	Area	Responsibility
Site infrastructure and management				
1.	Before construction personnel begin	Induct all staff and on-site personnel regarding required actions within this plan.	Foreshore reserve and POS	Civil engineer
2.	Prior to earthworks and at all times	Inspect temporary fencing and markers to delineate the boundary of the foreshore reserve	Foreshore reserve and POS	Civil engineer
3.	Prior to earthworks and at all times	Fauna management.	POS	Fauna specialist
4.	As required	Maintain firebreaks.	Foreshore reserve	Civil contractor/landscape contractor
5.	During construction	Ensure all vehicles, tools, equipment, machinery and staff and all on-site personnel are free of mud, soil and plant material before entering the site, as well as before entering retained vegetation.	Foreshore reserve and POS	Civil engineer
6.	During construction	Ensure any soil brought into the site for landscape construction is free from pathogens and heavy metals and produced in accordance with <i>Australian Standard AS 4454-2003 Composts, Soil Conditioners and Mulches</i> .	POS	Civil contractor/landscape contractor
7.	During construction	Flag and fence areas of native vegetation to be retained to ensure they are not disturbed during construction	POS	Civil contractor/landscape contractor
8.	At the completion of earthworks	Install conservation fencing in revegetation area 3	POS	Civil engineer
Revegetation				
9.	Prior to planting	Place tubestock order	Foreshore reserve and POS	Environmental consultant/landscape architect
10.	Prior to planting	Weed control – spot spray and manual removal	Foreshore reserve	Revegetation contractor
11.	Prior to planting	Weed control – broad spectrum blanket spray and/or spot spray	Foreshore reserve	Revegetation contractor

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 5: Management actions and responsibilities (cont.)

No.	Timing	Management action	Area	Responsibility
12.	Following construction of adjacent road.	Plant native species in accordance with specifications outlined in this plan	Foreshore reserve	Revegetation contractor
13.	Following construction of adjacent road, or winter of 2022	Weed control – spot spray and manual removal	Foreshore reserve	Revegetation contractor
14.	Summer prior to planting in 2023 or following the construction of the adjacent road, whichever comes later.	Weed control – broad spectrum blanket spray and/or spot spray	Foreshore reserve	Revegetation contractor
15.	Once first rains have begun in winter of 2023 or following the construction of the adjacent road, whichever comes later.	Plant native species in accordance with specifications outlined in this plan	Foreshore reserve	Revegetation contractor
16.	Spring 2023 or following the construction of the adjacent road, whichever comes later.	Weed control - spot spray and manual removal	Foreshore reserve	Revegetation contractor
17.	Spring-summer 2023 or following the construction of the adjacent road, whichever comes later.	Weed control - spot spray and manual removal	Foreshore reserve	Revegetation contractor

Foreshore Management Plan

Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



Table 5: Management actions and responsibilities (cont.)

No.	Timing	Management action	Area	Responsibility
Monitoring and evaluation				
18.	After practical completion	Undertake monitoring of infrastructure and undertake contingency actions as required	POS	Landscape architect
19.	From after practical completion for 3 years	Undertake routine walkover monitoring and undertake contingency actions as required	POS and foreshore reserve	Botanist/revegetation contractor
20.	In spring after initial tubestock planting for 3 years	Undertake monitoring	Foreshore reserve	Botanist/revegetation contractor
21.	Three years after initial tubestock planting	Evaluate results of monitoring against objectives provide monitoring report to Shire of Mundaring	Foreshore reserve	Botanist/revegetation contractor/landscape architect

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



This page has been left blank intentionally.

7 References

7.1 General references

Department of Biodiversity, Conservation and Attractions (DBCA) 2020, *Geomorphic Wetlands, Swan Coastal Plain (DBCA-019)*.

Department of Water, Water Source Protection Branch (DoW) 2010, *Fertiliser application on pasture or turf near sensitive water resources* Perth, WA.

Emerge Associates 2014, *Review of Local Biodiversity Strategy - Lot 2 and 3 Helena Valley Road, Helena Valley*, EP11-058(06)--012.

Emerge Associates 2022, *Remediation Action Plan - Lots 2,3 and 6 Midland Road - Stages 1A and 1B*, EP21-019(02)—003B SPG, Version B.

International Commission on Illumination (ICI) 2017, *Technical Report: Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations*. 2nd Edition.

Keighery, B. 1994, *Bushland Plant Survey: A guide to plant community survey for the community*, Wildflower Society of WA (Inc), Nedlands.

RPS 2011, *Environmental Assessment Report: Lots 2 and 3 Helena Valley Road, Helena Valley*, L10525, Revision 0.

Water and Rivers Commission (WARC) 2001, *Water Note No. 22 - Herbicide Use in Wetlands*, East Perth.

7.2 Online references

Bureau of Meteorology (BOM) 2021, *Climate Data Online*, viewed 25 March 2021, <http://www.bom.gov.au/climate/data/index.shtml>.

Foreshore Management Plan
Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley



This page has been left blank intentionally.

Figures



Figure 1: Site Location

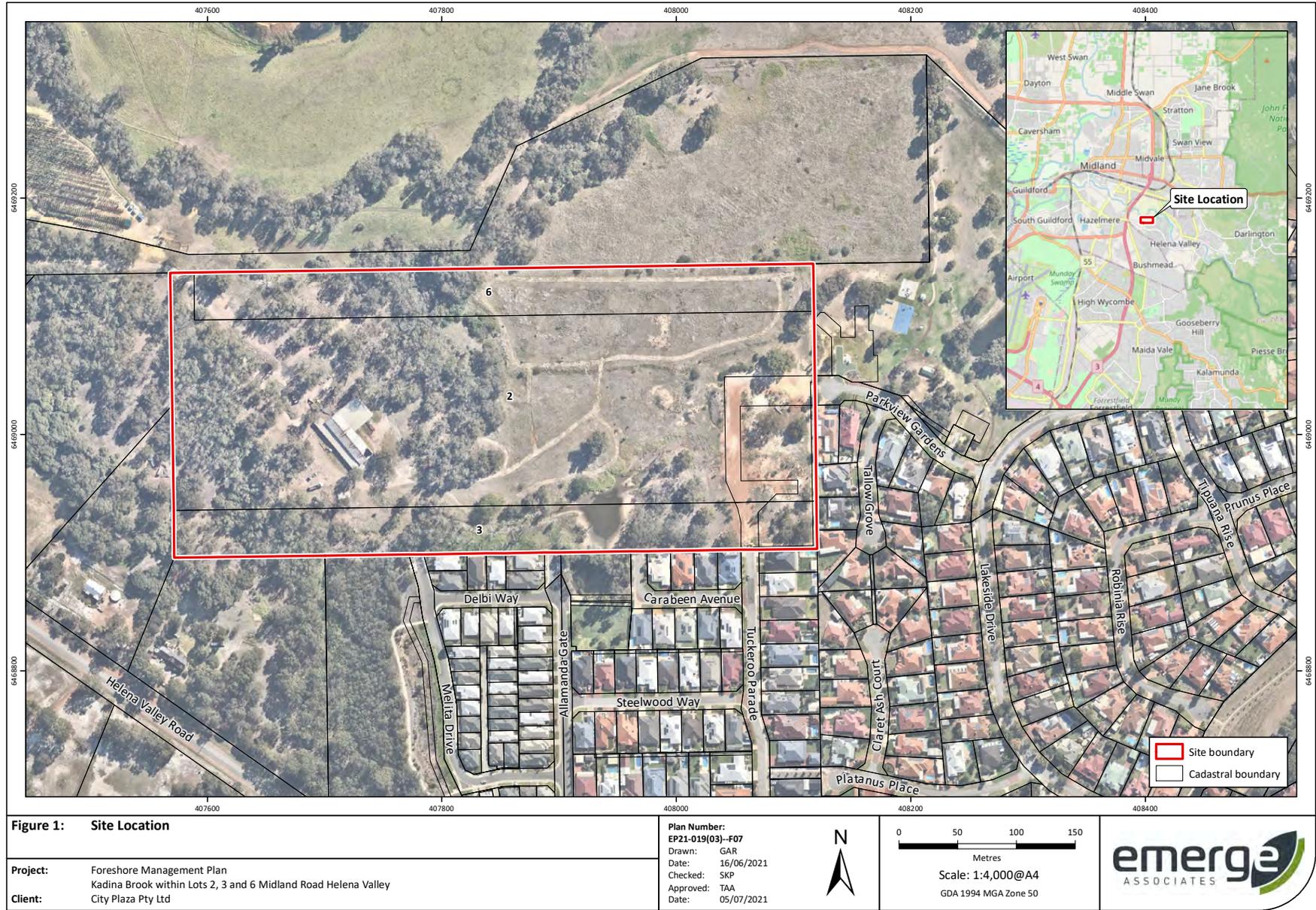
Figure 2: Environmental Features

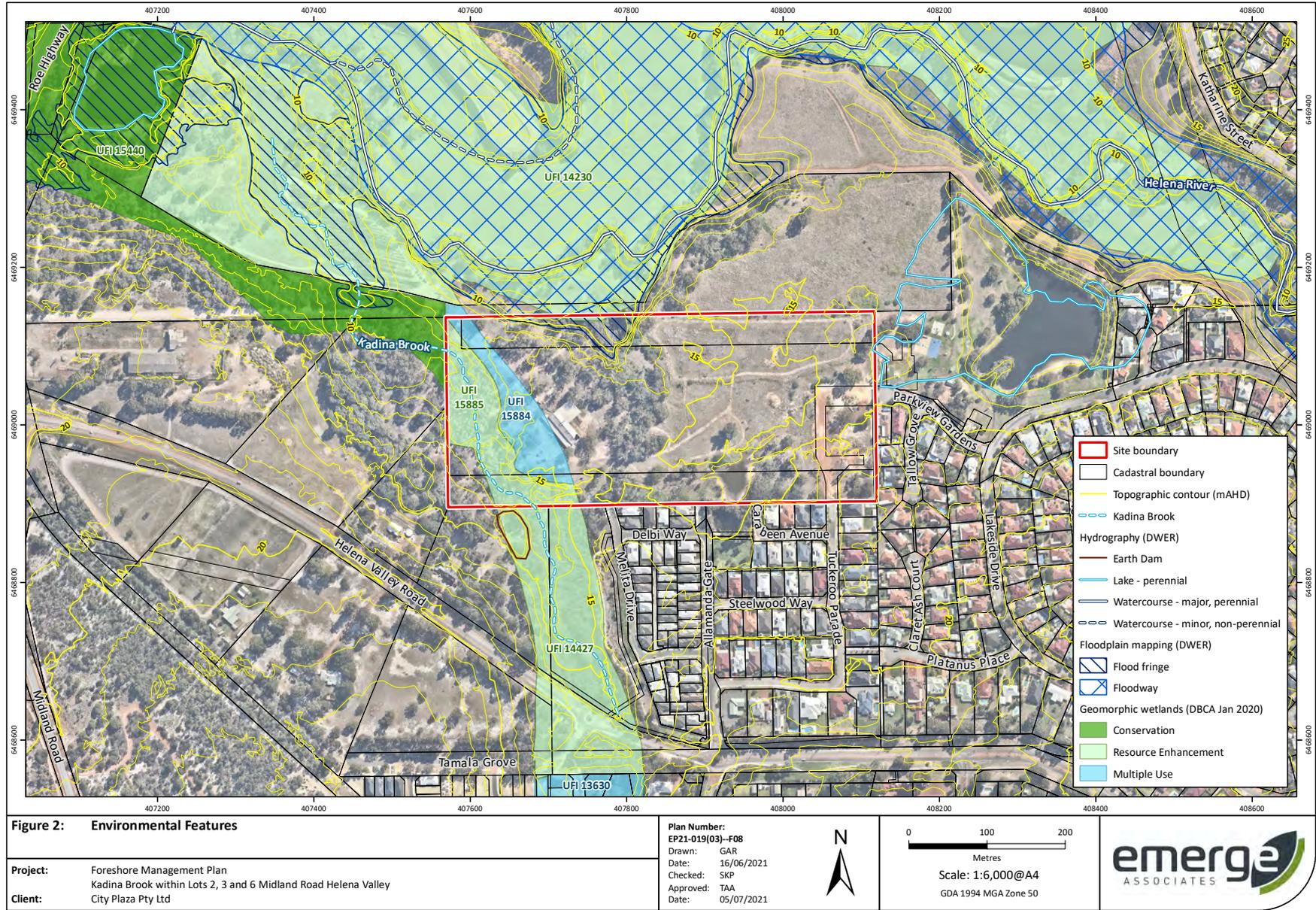
Figure 3: Plant Communities

Figure 4: Vegetation Condition

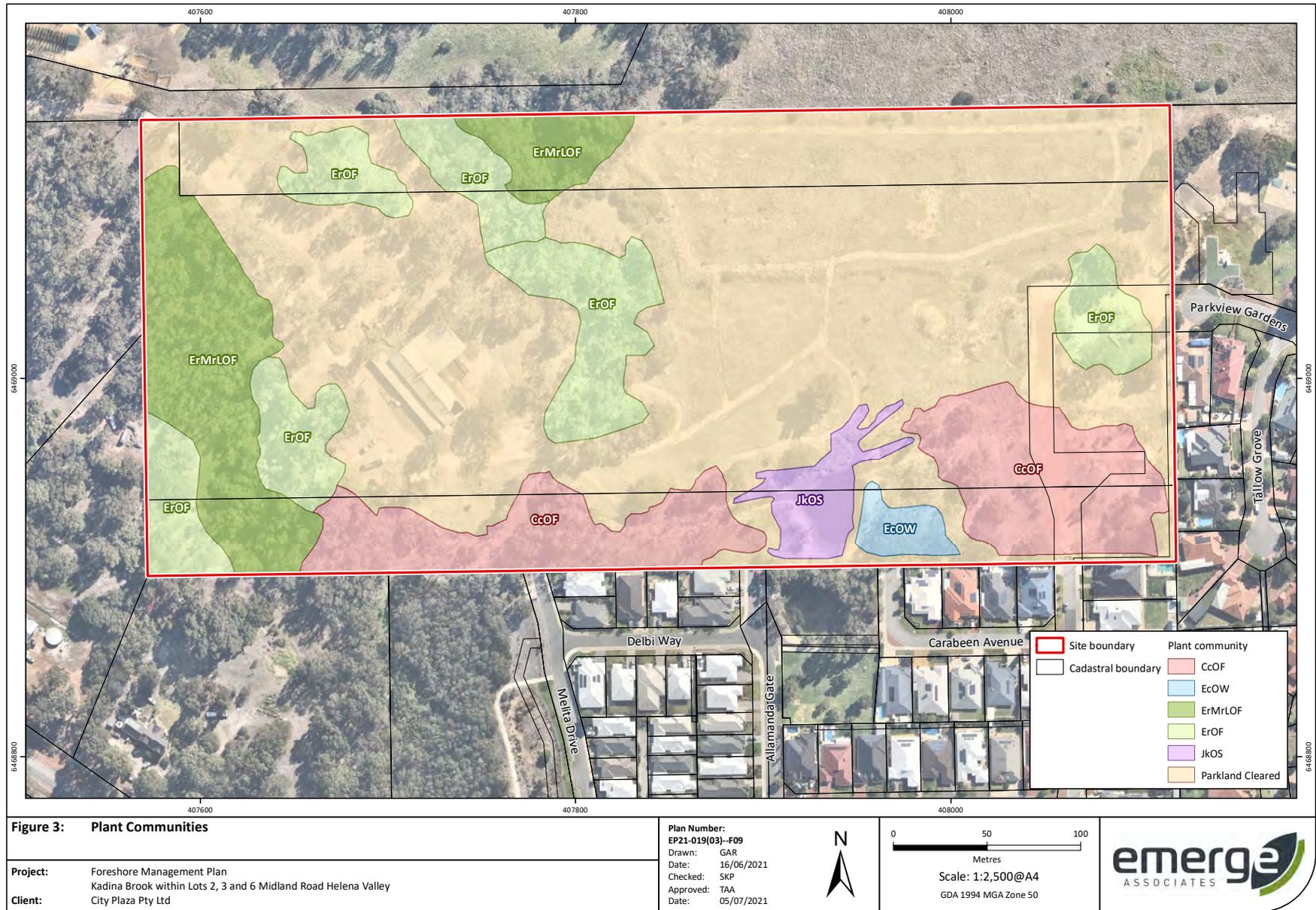
Figure 5: Foreshore Reserve

Figure 6: Management Areas and Public Infrastructure

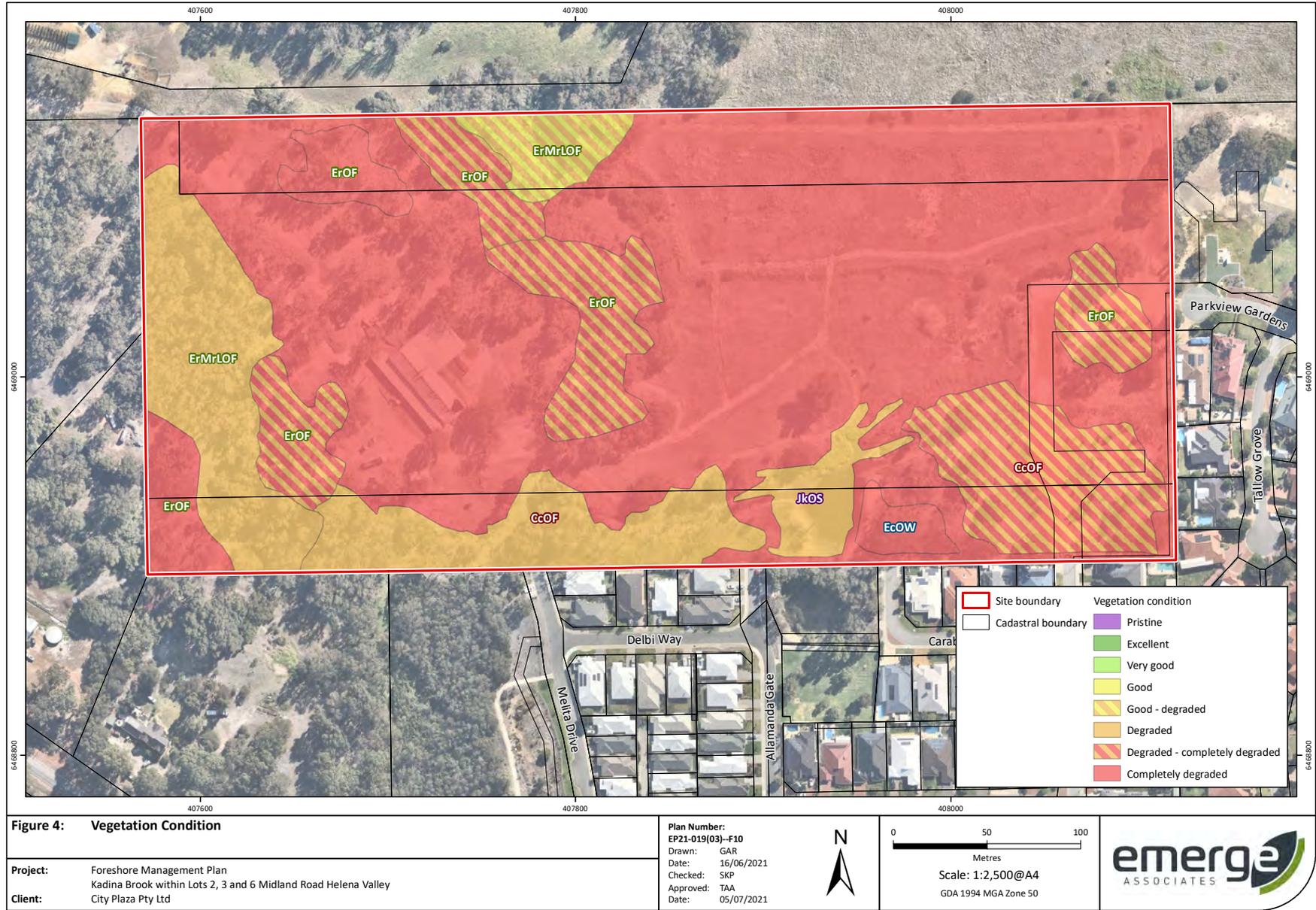




While Emerge Associates makes every attempt to ensure the accuracy and completeness of data, Emerge accepts no responsibility for externally sourced data used.



While Emmerge Associates makes every attempt to ensure the accuracy and completeness of data, Emmerge accepts no responsibility for externally sourced data used.



While Emmerge Associates makes every attempt to ensure the accuracy and completeness of data, Emmerge accepts no responsibility for externally sourced data used.

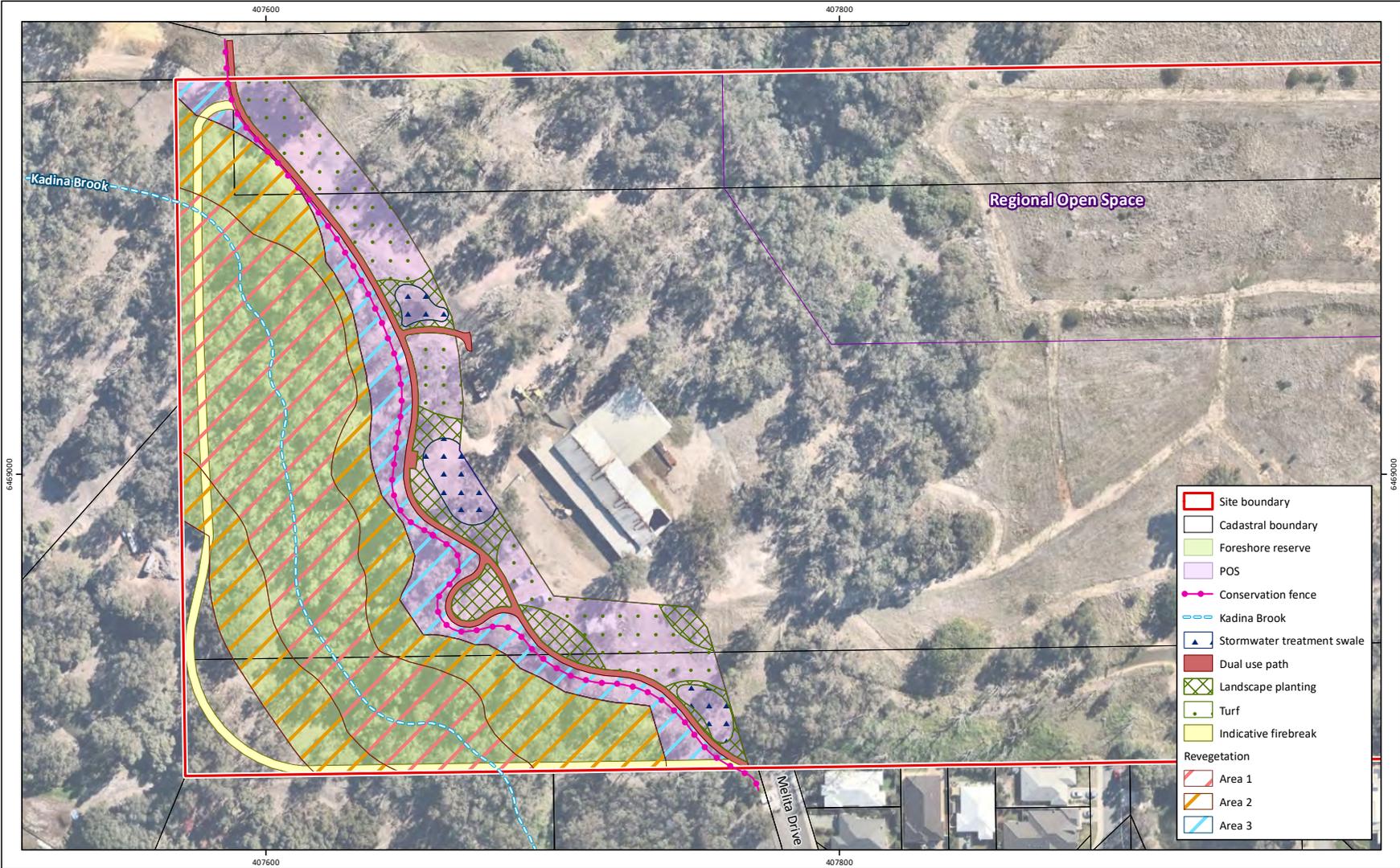


Figure 6: Management Areas and Public Infrastructure

Project: Foreshore Management Plan
 Kadina Brook within Lots 2, 3 and 6 Midland Road Helena Valley
Client: City Plaza Pty Ltd

Plan Number: EP21-019(03)-F12c
Drawn: GAR
Date: 27/05/2022
Checked: IMS
Approved: TAA
Date: 27/05/2022



0 20 40 60
 Metres
 Scale: 1:1,750@A4
 GDA 1994 MGA Zone 50



While Emmerge Associates makes every attempt to ensure the accuracy and completeness of data, Emmerge accepts no responsibility for externally sourced data used
 File path: C:\Users\jag\Documents\103211 - Reserves.mxd Date: 24/04/2022

Appendix A

Subdivision Concept





Subdivision Concept
 Lots 2, 3 & 6 Midland Road, Helena Valley

date: 17 April 2020
 scale: 1:2000 @ A3
 file: 20-088 SU1A

staff: MD, LC
 checked: MD

0 1 50m



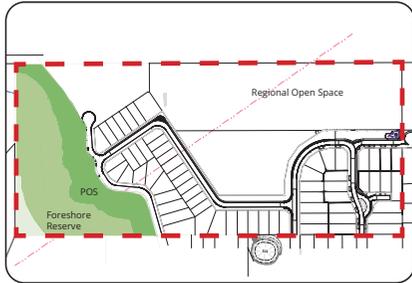
Appendix B

Concept Landscape Plan



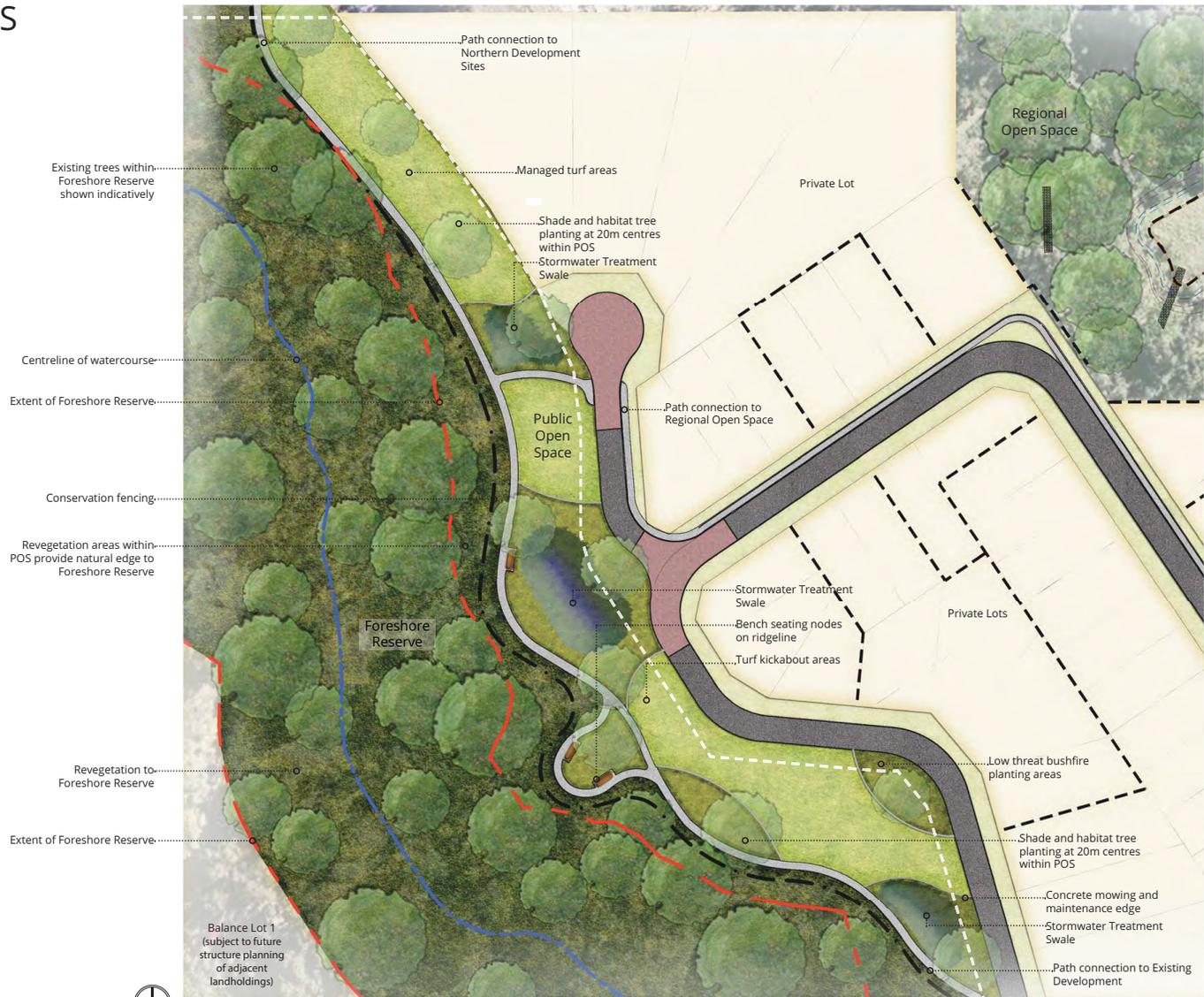
Foreshore Reserve & POS

LOCATION PLAN



LEGEND

- Foreshore Reserve Boundary
- Centreline of Watercourse
- POS Lot Boundary
- Conservation Fencing
- Existing Native Tree Planting
- Shade and Habitat Tree at 20m spacings
- Native Low fire Threat Shrub Planting Areas
- Revegetation Planting
- 2.1m Wide Concrete Path
- Informal / Bench Seating
- Turf areas
- Concrete Mowing/Maintenance edge
- Road Treatments
- Stormwater Treatment Swale



CONCEPT PLAN

DWG - ENV-HV-FMP
 REV - C
 DATE - Oct 2021
 SCALE - 1:1000 at A3

© THIS DRAWING CAN NOT BE PUBLISHED OR DISPLAYED WITHOUT THE WRITTEN PERMISSION OF THE CLIENT AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY AND MAY ALTER WITHOUT NOTIFICATION.

LOTS 2, 3 & 6 MIDLAND ROAD, HELENA VALLEY

FORESHORE & PUBLIC OPEN SPACE PLAN



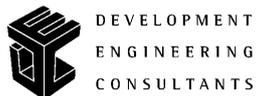
Integrated Science & Design

REPORT

**CITY PLAZA PTY LTD
LOTS 2, 3 AND 6 MIDLAND ROAD,
HELENA VALLEY**

URBAN WATER MANAGEMENT PLAN

JULY 2024

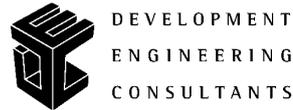


Revision History:

Revision	Description	Checked	Approved	Date
0	Original Issue for DoW and Council approval	SRA	SRA	28 th May 2021
1	UWMP Updated to reflect the agreed location of the Basin and accommodate comments from DBCA	SRA	SRA	4 th April 2022
2	UWMP Updated to Reflect further comments from DBCA and Shire of Mundaring	SRA	SRA	26 th May 2022
3	UWMP Updated to Reflect further comments from DBCA	SRA	SRA	11 th July 2022
4	UWMP updated to reflect the ultimate proposed development as per amended plan	SRA	SRA	19 th July 2024

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust

Page ii



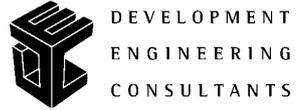
Summary	6
1 Planning Approval	7
2 Design Objectives	7
2.1 Development Objectives	7
2.2 Water Quantity Objectives	8
3 Site Characteristics	9
3.1 Soil Conditions	9
3.2 Geotechnical	9
3.3 Environmental	10
▪ 3.3.1 Natural Environment on the Site	10
▪ 3.3.2 Natural Environment abutting or Close to the Site	10
▪ 3.3.3 Uncontrolled Fill on the Site and Proposed Remediation	10
3.4 Surface Water	11
3.5 Groundwater	12
▪ 3.5.1 Calculation of Predevelopment Groundwater Levels:	12
▪ 3.5.2 Predevelopment Groundwater Monitoring	12
3.5.2.1 Measured Groundwater Levels	12
3.5.2.2 Measured Groundwater Quality	13
▪ 3.5.3 Post Development Groundwater levels:	14
3.6 Landscape Areas	15
▪ 3.6.1 Proposed Public Open Space Development	15
▪ 3.6.2 POS Credits and Areas of Inundation:	16
▪ 3.6.3 Irrigation Requirements for Landscape Areas	16
3.6.3.1 Water Source and Required Allocations	16
3.6.3.2 Irrigation Schedules	16
4 Water Sustainability Initiatives	17
4.1 General	17
4.2 Water Supply and Efficiency Measures	17
4.3 Alternative Water Supply Scheme	18
4.4 Wastewater Management	18
5 Stormwater and Groundwater Management	18
5.1 Pre-Development Hydrology	18
5.2 Flood Protection	19
▪ 5.2.1 Comparison to Emerge Local Water Management Strategy (LWMS)	19
▪ 5.2.2 General Drainage Approach	20
▪ 5.2.3 1% AEP Storm	20
5.2.3.1 General Design Principles	20
5.2.3.2 Impact of the Back Flooding of Helena River and Kadina Brook	21
5.3 Stormwater Management System	22
▪ 5.3.1 1 EY Events	22
5.3.1.1 Allotments	22
5.3.1.2 Roadways	22
5.3.1.1 Detention Basin	22



DEVELOPMENT
ENGINEERING
CONSULTANTS

5.4	Post- Development Groundwater Levels and Fill Requirements	23
	▪ 5.3.2 20% AEP event	23
	▪ 5.3.3 Non Structural Management Practices	23
	▪ 5.4.1 Groundwater Level Management	23
	▪ 5.4.2 Groundwater Quality Management Strategies	23
	▪ 5.4.3 Finished Lot Levels (Relative to the phreatic line)	24
6	Managing Subdivision Works	24
6.1	Background:	24
6.2	Actions to Address Acid Sulfate Soils &/or Contamination	24
6.3	Protection of Environmental Assets	25
6.4	Management of Disease Vectors and Nuisance Insects	25
	▪ 6.4.1 Insect and Disease Control	25
	▪ 6.4.2 Use of Herbicides and Pesticides	25
6.5	Proposed Management Strategies:	26
7	Monitoring Programme:	26
7.1	General	26
7.2	Contingency Measures:	27
8	Implementation Plan	27
8.1	General	27
8.2	Maintenance Arrangements (Incl. Roles, Responsibilities & Funding)	28
	▪ 8.2.1 Internal to Allotments	28
	▪ 8.2.2 Stormwater System	28
8.3	Assessment and Review	29
9	References:	29
APPENDIX A – OVERALL PLANS		
	Drawing U-01 – Locality Plan	
	Drawing U-02 – Aerial Photograph with Development Plan Superimposed Thereon	
	WAPC Approval 156 909 with Approved Plan	
APPENDIX B – DRAINAGE STRATEGY PLANS		
	Drawing U-03 – Pre Development catchment Plan	
	Drawing U-04 – Post Development Catchment Plan and 20% AEP Event Plan	
APPENDIX C – LANDSCAPE PROPOSALS FOR POS AND DETAILED ENGINEERING PLANS DRAINAGE		
	Drawing U-05 – Drainage Layout Plan Sheet 1 of 2	
	Drawing U-06 - Drainage Layout Plan Sheet 2 of 2	
	Drawing U-07 – Drainage Basin Details	
	Drawing U-08 – Drainage General Details	
	Drawing U-08 – Drainage Basin and Outlet Details	
	Landscape Concept Plan	
APPENDIX D – Drainage Calculations		

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



APPENDIX E – JDSI – Geotechnical Investigation Report June 2017
APPENDIX F – Groundwater Licence

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust

Page 5



URBAN WATER MANAGEMENT PLAN – CITY PLAZA PTY LTD
LOTS 2, 3 AND 6 MIDLAND ROAD, HELENA VALLEY

Summary

- The general fall of the land is in a north and westerly direction towards the Kadina Brook and Helena River on the north and west of the site.
- The site is traversed by the existing Kadina Brook, which will be left in its current form. Drainage will be detained to predevelopment rates prior to outflow into the brook and Helena River.
- All piped drainage systems will be designed to accommodate the 20% AEP rainfall event.
- All roads within the subdivision will be kerbed & drained to Council standards.
- All detention basins will be designed to manage all storm events up to and including the following:
 - 1% AEP event with outflow controlled using weirs and orifice to limit various ARI storms to pre development rates.
 - The biological uptake areas for the drainage basins will be sized based on 2% of the connected impervious area of the catchment of the basin.
- Lot Drainage Systems shall allow for disposal of stormwater by soakage on site using the equivalent of 2 by 1.5m diameter and 1.2m deep soakwells to hold the 1 EY 1 Hour AEP storms on the site and provide a detention volume to limit outflows for the various AEP storms.
- Information Packages will be provided as part of sales documentation to all lot purchasers to: (a) Fully inform lot owners of the requirement to provide soakage facilities to assist in the disposal of site drainage; (b) To encourage the use of rainwater tanks (plumbed into their homes for household); (c) To utilise water efficient devices & appliances throughout their homes; and (d) To maximise the use Water & Nutrient-wise plants, and to minimise the use of lawns.



1 Planning Approval

The subdivision has been approved for subdivision under WAPC subdivision approval (No. 156909) dated 26th July 2019.

The site includes a portion of Kadina Brook on the western side and abuts the Helena River flood plain to the north. The Kadina Brook connects with the Helena River some 500m north of the site.

The approved subdivision layout plan in Appendix A of this report illustrates how the site will be developed and integrated into the existing residential area to the south of the site. The development consists of approximately 65 residential allotments averaging from 360 to 750 square metres in area. In addition to the approval, the developers are proposing to further subdivide the 1.2595ha Balance Lot 3 into 24 residential allotments plus a further group housing parcel, plus a further 4 lots plus POS on the 1.004ha Balance Lot 2. The proposed plan for this is shown in Appendix A in the Land Surveys Plan 2400025-PR002-D. Although these have not been approved provision within the drainage system to cater for this proposed extension of the development has been made within this report as it is a more conservative approach.

This plan is being prepared in compliance with Condition 4 of the approval requires the following:

Prior to the commencement of subdivisional works, an Urban Water Management plan is to be prepared and approved, in consultation with the Department of Water and Environmental Regulation and Department of Biodiversity, Conservation and Attractions (Estuary Division), consistent with any approved Foreshore management Plan and Local Water Management Strategy. (Local Government).

The Location of the Site, together with the approved subdivision area, approved plan and proposed plan are shown in Appendix A.

2 Design Objectives

2.1 Development Objectives

A Local Water Management Strategy (LWMS) was prepared for the site by Emerge dated September 2015.

This plan included several design objectives to manage potential impacts on the hydrology and environment which are outlined in the tables below.

Protection of environmental assets from the potential impacts of development

Objective:	Compliance:
» Minimise changes to hydrology to prevent impacts on watercourses & wetlands	Lot stormwater run-off will be directed in to soakwells to maximise infiltration as close as possible to where it is generated. Road Drainage Systems to also incorporate soakage at source.
» Manage & restore watercourses &/or wetlands	The existing alignment of Kadina Brook will be retained and enhanced as part of the landscape strategy..

Surface water management to protect infrastructure, assets & receiving environments

Objective:	Compliance:
------------	-------------



DEVELOPMENT
ENGINEERING
CONSULTANTS

<ul style="list-style-type: none"> » Minimise changes to hydrology to prevent impacts on receiving environments » Manage surface water flows from major events to protect infrastructure & assets 	<p>Peak flows leaving the site should be comparable to pre-development flows up to the 1% AEP event. The road drainage network will be designed to convey the 20% AEP event. Maintain a minimum average grade of 1 in 500 across the length of roadside swales.</p> <p>All finished floor levels of allotments to be a minimum of 0.5m above the 1% AEP flood level for the back flooding of the Helena River or the Local Detention basins whichever is higher.</p>
<ul style="list-style-type: none"> » Manage groundwater levels to protect assets, infrastructure & groundwater dependent ecosystems 	<p>Lots should have a clearance to the measured maximum groundwater level (MGL) of at least 1.2m. Inverts of bio-retention areas will be set at least 0.3m above the measured MGL.</p> <p>Downstream groundwater quality should be at least the same as or better than, upstream water quality.</p>

Water Quality management Measures for Urban Development

Objective:

- » Achieve pollutant load reduction from stormwater runoff generated from the development.

Compliance:

Retain the 1EY event as close to source as practical. The surface area of bio-retention areas is to be a minimum of 2% if the connected impervious area. Bio Retention areas should maintain 1 in 3 side slopes and a maximum depth of 0.5m.

Non Structural measures including Education of residents in regards to management measures to minimise nutrient loading.

Water Conservation and Improvement in Water use Efficiency

Objective:

- » Improve potable water consumption targets

Compliance:

Lot purchasers will be encouraged to install rain water tanks (plumbed into their home); to use water efficient devices & appliances and to plant "Water-wise" & "Nutrient-wise" gardens. This will be by reference to publications and provision of data as part of sales documentation.

2.2 Water Quantity Objectives

The drainage requirements for developments within this area are controlled by the requirements of the City of Mundaring, which are outlined below.

Item	Description	Requirement	Source / Comment
1	Water Quality	1EY storm to be Retained on site	DoW requirements
2	ARI for pipe design	20% AEP	Standard Council requirement
3	ARI for compensating basin design	1% AEP outflow limited to predevelopment flow rates.	Standard DoW/Council requirement
4	Flow rates	1% AEP outflow limited to predevelopment flow rates.	Standard DoW/Council requirement



DEVELOPMENT
ENGINEERING
CONSULTANTS

Item	Description	Requirement	Source / Comment
5	Min. lot freeboard	0.5m above basin or Helena River flood level. 0.3m above 100 Yr HGL in Road System	Standard Council/DoW requirement developments
6	Basin Criteria Side slopes – In POS	Max. 1 in 6	Standard Council requirement
7	Run-off coefficients C_{100}	0.70 – for road reserves $C_{1\%} = 0.51$, $C_{10\%} = 0.39$, $C_{20\%} = 0.33$, $C_{1EY} = 0.18$ – For Urban Residential Allotments $C_{1\%} = 0.14$ for POS	Council Requirements As Calculated by first principles as per “at Lot” calculations in Appendix C Per Pre Development Allowances

3 Site Characteristics

3.1 Soil Conditions

The Perth Environmental Geology Mapping¹ (Gozzard, 1986) defines the materials beneath the site as follows.

Soil profile M_{gs1} – This comprises the eastern portion of the site and is described as pebbly silt with common to fine to occasionally coarse grained sub-rounded laterite quartz heavily weather granite pebble and some fine to medium grained quartz sand of alluvial origin.

A clay quarry was shown on the northern side of the site.

Topographical contours across the site are shown on the catchment plan contained in The Pre Development Catchment Plan U-03 in Appendix B.

3.2 Geotechnical

A geotechnical report was undertaken over the site by JDSI in June 2017. Further investigations were also undertaken by Douglas Partners in early 2017 to facilitate the construction of a Water Corporation sewer across the subject land. In addition to this, Emerge undertook excavations as part of the UWMP and environmental investigations.

The report generally supports the regional mapping insofar as the predominant soil type of the area is sandy clay and medium plasticity clay.

A large portion of the site is covered with uncontrolled fill ranging to in excess of 4.3m. The uncontrolled fill material consisted of a mixture of construction rubble (Such as bricks, steel, concrete and gravels), sands and clay.

The report indicated that soil improvement by impact rolling and “rafting” over the deeper uncontrolled fill would be the preferred approach to limit differential settlement and enable house construction over the affected areas. It also recommended a minimum depth of 1.2m of sand be placed over the area to ensure a minimum site Classification “S” under AS2870 – 2011 ‘Residential Slabs and Footings’. The “rafting” consists of a geotextile membrane in conjunction with 300mm of limestone/lime sand which will form a barrier between the untreated uncontrolled fill below and the treated and clean material above.



A copy of the geotechnical investigation report is included in Appendix E of this document together with a plan detailing the various areas described above.

3.3 Environmental

3.3.1 Natural Environment on the Site

Emerge Associates inspected the site as part of the LWMS and undertook a wetland assessment. The survey found that no Threatened or Priority Flora were on the site. The wetland vegetation was found to be in a "Degraded" condition with the areas subject to filling being "Completely Degraded". The remainder of the site consisted of cleared paddocks.

Acid Sulphate soils Mapping across most of the site indicates that all soils within 3.0m of surface levels were either a moderate to low risk or Low to no risk of Acid Sulphate Soils occurring. The eastern portion of the site indicates a High to moderate risk of ASS being on the eastern portion of the site.

3.3.2 Natural Environment abutting or Close to the Site

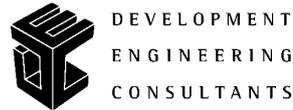
The only site of environmental significance within or adjacent to the site is the Kadina Brook, which in turn drains to the Helena River, some 0.5km downstream of the site. The Kadina Brook is recognised as a Resource Enhancement Wetland (REW) with the surrounding floodplain being classed as a Multiple Use Wetland (MUW). The Helena River Floodplain also abuts the site to the north and this has the same classifications with the River being a REW and the floodplain being a MUW.

3.3.3 Uncontrolled Fill on the Site and Proposed Remediation

As outlined in Section 3.2 a large portion of the site is underlain by uncontrolled fill to a significant depth in parts. The uncontrolled fill is subject to an environmental remediation action plan (Emerge Associates, 2021)⁶ which requires uncontrolled fill material within 2.6m of the finished surface level to be screened, contaminants removed, tested for compliance, then replaced. The raft as discussed in section 3.2 is required for structural purposes, together with a warning barrier will be placed at the base of the excavation to ensure that if any future excavations occur in the area, there will be a sufficient barrier between the treated and untreated soils. The top 1.2m of the site area will be clean imported sand.

The action plan⁶ indicated that despite some exceedances of guideline levels of hydrocarbon and polyfluoroalkyl compounds (PFAS) which have likely resulted from the landfill, the PFAS represented only a theoretical risk to human and environmental health. The hydrocarbons were only found at discrete locations and hence were deemed to be low risk. The report further indicated that risk to human health could only occur if the groundwater was used for non-potable purposes, but the geological conditions of the area means that groundwater extraction is not feasible hence it was deemed that there was no feasible completed source-pathway-receptor linkage that would result in exposure. Qualitative risk assessment assessed the risk to the environment as "very low" and no action was required.

To safeguard against further mobilization of contaminants, subsoils are proposed to be above groundwater levels where possible and all groundwater is treated prior to outflow to



Helena River. All soakwells and subsoils will be located within the top 2.6m of remediated and clean fill.

An existing deep sewer has been installed through the site and the remaining services required for the development are generally shallow and dewatering is unlikely to be required other than for surface water if works are undertaken in periods of wet weather. If any dewatering is required, effluent will be measured and if samples indicate trigger levels are exceeded, lime treatment will be introduced to ensure that the discharge levels meet required criteria. Testing to date indicates that the groundwater is relatively free of pollutants and ASS.

3.4 Surface Water

The existing area mainly consists of open paddocks with stockpiles in the south eastern corner from the earthworks completed by the Water Corporation sewer works through the site. There is an existing dammed water body which overflows to the north east of the site. The western area of the site is the Kadina Brook and foreshore area. The north western portion of the site is more or less foreshore reserve with a steep embankment falling from around RL 14.00m AHD to around RL9.5m AHD. There are significant trees along the embankment area.

The Kadina Brook flows along the western side of the site and the Helena River is to the north. According to DWER flood mapping, the 1% AEP flood level of the Helena River abutting the site is at around RL10.50m AHD which is some 5.0m lower than the general levels of the site.

The site falls into three main catchments; Helena River to the north, Broz Park to the east and Kadina Brook to the west. There is a dam in the southern portion of the site which receives overflow from an existing drainage basin to the south and in turn overflows to Broz Park.

As outlined above, the existing drainage basin referred to above (EB) has been constructed on the southern side of the site which discharges into the subject land. Based on original design work undertaken by Development Engineering Consultants (DEC) in 2006, the peak outflow from the basin for the 1% AEP of some 283l/s. Based on the total area of the site of some 6.5ha, this equated to around 43l/s/ha. EB will treat stormwater prior to outflow, hence this overflow will need to be incorporated within the stormwater system for the development, but will not need to be routed through further treatment mechanisms.

In the LWMS, Emerge undertook predevelopment surface water modelling and calculated that from the subject land the 5 year (20% AEP) flows and 100 Year (1% AEP) flows were some 0.36m³/s and 1.07m³/s respectively. Based on the site area of some 13.2ha, the total average outflow was around 81l/s/ha for the 1% AEP storm which appears to be relatively high compared to the previous development outflows.

Based on previous work by DEC in upstream areas of Kadina Brook with similar soil conditions, and the work done by Belleng VDM Pty Ltd for Lots 229 and 230 Helena Valley Road, Helena Valley², the 1% AEP storm equated to some 43l/s/ha, which is similar to that used by DEC in the adjoining development and is significantly lower outflow than proposed by Emerge.



3.5 Groundwater

3.5.1 Calculation of Predevelopment Groundwater Levels:

Groundwater level monitoring was undertaken by Emerge between October 2011 to November 2012 and 5 months of 2013. The peak contours as measured by Emerge are shown in Drawing U-03 in Appendix B, together with the bore locations.

Groundwater flow directions are generally grading from RL15.20m AHD on the eastern boundary of the site in a northerly and westerly direction towards Kadina Brook and Helena River. The level on the eastern boundary of the site is around 2.5m below surface level. According to the records the remainder is around 1-2.0m below existing surface levels.

According to the 2003 Groundwater Atlas, which generally designates AAMGL levels, the groundwater falls in a similar direction, being around 10.00mAHD at the south eastern boundary of the site flowing north east to Helena River at around 7.00mAHD.

The groundwater contours shown on the LWMS are based on only three bore locations and are not representative of the unconfined groundwater levels for the area. The groundwater levels shown are a blend of a deeper confined aquifer combining with upper layers being perched on clay.

For example, the groundwater level on the Emerge drawing near the intersection of Carabeen Ave and Parkview Gardens is shown as RL14.80mAHD which in some cases is already 0.3m above existing surface levels, which based on anecdotal information and site review is clearly not the case. The Geotechnical Report and the remediation action plan⁶ indicates the groundwater some 4.0m below surface levels. In contrast to this, the Emerge LWMS shows groundwater levels abutting the Helena River are shown some 2.0m above existing levels, which given the proximity to the Helena River is clearly erroneous.

Clearly this is a significant discrepancy and the unconfined groundwater levels are significantly lower than shown in the Emerge LWMS.

The regional mapping is significantly lower than the levels measured by Emerge, and looking at the geotechnical report, the water levels appear to be coincidental with the upper level of clayey layers, meaning that the measured water is the perched water fed from winter rainfall.

3.5.2 Predevelopment Groundwater Monitoring

Monitoring bores were placed over the site in a number of locations process over the site locations as shown in U-03 in Appendix B. B ores as outlined below have been installed to monitor groundwater levels over the area.

The bore locations have been plotted on Drawings U-03 and U-04 in Appendix B.

3.5.2.1 Measured Groundwater Levels

The measured levels from the Emerge reporting are replicated below, which indicated a 2.0m variation between summer and winter, which is a significant variation and indicates the impact of surface water perching.



As outlined above, the measured levels appear inconsistent with the regional data and geotechnical excavations on the site, giving rise to the view that the measurement is likely to be the effect of a deeper confined aquifer and superficial surface water perching over the winter months. The bores were generally 7.0m deep and the measured water levels on their installation was significantly deeper than the measured levels on the graph below, which indicates that effect of the confined aquifer.

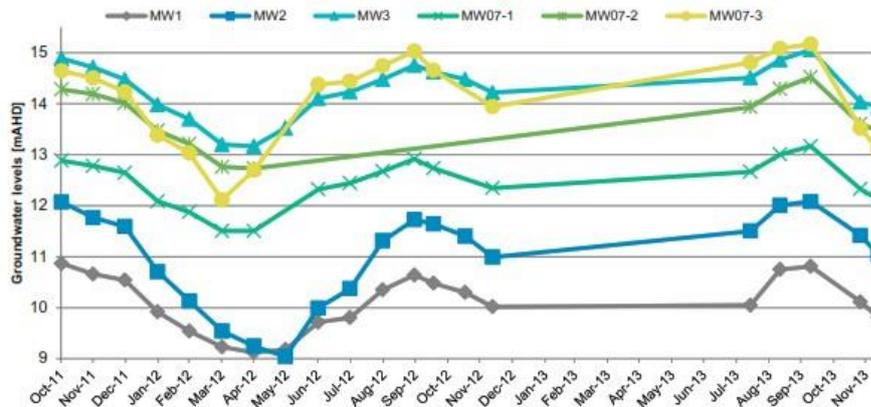


Chart 1 Measured groundwater levels (2011-2013)

3.5.2.2 Measured Groundwater Quality

Groundwater Quality was sampled by Emerge as part of the LWMS investigations on four occasions during 2011 and 2012. The summary of results specifically in regard to nutrient levels is outlined below in Table 3.1.

Table 3.1 – Groundwater Quality Monitoring Results – Emerge Associates – Lot 2,3 and 6 Midland Road, Helena Valley – Local Water Management Strategy

Sample ID	Date	Trigger	Total P	Total N	TKN	NOx-N
		PQL ^a	0.05	0.1	0.1	0.051
		FWG ^b	0.2	2	NG	NG
		LIWG ^c	0.05	5	NG	NG
MW1	2011/2012		0.13	0.46	0.46	0.03

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust

Sample ID	Date	Trigger	Total P	Total N	TKN	NO _x -N
		PQL ^a	0.05	0.1	0.1	0.051
		FWG ^b	0.2	2	NG	NG
		LIWG ^c	0.05	5	NG	NG
MW2	2011/2012		0.2	0.88	0.84	0.07
MW3	2011/2012		0.54	0.36	0.34	0.05

- Practical Quantitation Limits (PQL).
- Values for Wetland Environments – Table 3.3.6 ANZECC/ARMCANZ 2000 Freshwater and Marine WQ Guidelines Chapter 3. NG – No Guidelines.
- Long term Irrigation Water Quality Guidelines (LIWG).

Although the level of phosphorous is slightly above the guideline levels all other parameters are within the guideline levels. This indicates that the uncontrolled fill on the site is generally inert and the groundwater in its current state is quite fresh.

Further environmental work on the uncontrolled fill indicated that despite some exceedances if guideline levels of hydrocarbon and polyfluoroalkyl compounds (PFAS) which have likely resulted from the landfill, the PFAS represented only a theoretical risk to human and environmental health. The report further expanded that risk to human health could only occur if the groundwater was used for non-potable purposes, but the geological conditions of the area means that groundwater extraction is not feasible, hence it was deemed that there was no feasible completed source-pathway-receptor linkage that would result in exposure. Qualitative risk assessment assessed the risk to the environment as “very low” and no action was required.

3.5.3 Post Development Groundwater levels:

To control the rise of the perched water, it is proposed that subsoil drainage will be installed within the development. All drainage will be laid with subsoil drains in parallel with the drainage pipes. All the drainage will be backfilled with sand resulting in the subsoils being hydraulically linked with the sand/clay interface, thereby controlling any potential groundwater rise.

All internal drainage will be installed with subsoil drainage to control perching of surface water on the superficial layers. All this perched water will be treated by routing this water through the end of line basin prior to outflow to the Helena River.

As part of the remediation of the upper 2.6m of the area of the uncontrolled fill the existing material will be excavated, screened to remove contaminants, tested for compliance, then replaced and recompacted. The subsoil drainage through the area will be laid within the remediated material meaning there will be little or no opportunity for the mobilization of contaminants. This in combination with the low concentrations of contaminants and the treatment of the water prior to outflow means there will be little or no opportunity of contamination.



The outlet drain from the existing basin needs to be laid lower than the drainage for the development to enable the existing drainage levels to grade to the river. The pipework levels of this line are as high as possible to accommodate the outlet level of the existing basin and it is proposed that these pipes will be installed without subsoil drainage to minimise the risk of mobilisation of any contaminants.

Assuming peak average annual 24 hour rainfall of 48mm and this will be drained over 5 days, the average subsoil flow is likely to be around 2.57l/s which will be easily treated in the proposed basin.

The proposed subsoil drainage details are shown in Drawing U-08 in Appendix C.

3.6 Landscape Areas

3.6.1 Proposed Public Open Space Development

The POS area is proposed to be located abutting the Kadina Brook and consists mainly of flood plain areas. A large portion of the site to the north is proposed to be acquired by DLPH as regional open space (ROS) which is shown on the plan.

Drainage Basin 1 is proposed to provide a bio filtration role and limit outflow to predevelopment rates is proposed to be located within an easement in allotments, hence will have no implication on POS areas. There is a relatively clear area abutting the floodplain that will facilitate the construction of the basin with linking pipes without significant damage to established trees.

Drainage Basin 2 is proposed for the small area at the connection point to Parkview Gardens and is located within the road reserve. This is proposed as a shallow swale with overflow to the existing drainage system on Parkview Gardens.

Both basins are proposed to be constructed as an artificial wetlands with subsurface drainage and improved soil beneath to ensure that the basins empty after each rain event.

Both basins are proposed to be planted with nutrient absorbing species such as the suggestions below:

- *Baumea articulata*
- *Ficinia nodosa*
- *Juncus kraussii*
- *Eleocharis acuta*
- *Melaleuca raphiophylla*

Further planting details shall be in general accord with the Shire of Mundaring "Landscape and Revegetation Guidelines". Bio retention plant species have been selected on the basis of being tolerant of periodic inundation and extended dry periods, with deep and spreading root system. Planting should aim to provide 70-80% coverage at plant maturity.

Planting densities will be resolved at the time of detailed landscape design, but will be in accordance with the publication "Vegetated Guidelines for Stormwater Biofilters in the South West of Western Australis (Monash University, 2014)".

The modeling in the calculations in Appendix D indicates that the basins will all facilitate dissipation within 72 hours after cessation of rainfall in accord with health Department recommendations, even for a 100 year storm.



As a result of the location of the drainage area within the lots, the whole of the POS is then unencumbered by drainage and the steep grades between the roadway and the brook can then be more easily reconciled with minimal retaining and a greater proportion of useable area.

3.6.2 POS Credits and Areas of Inundation:

POS credit calculations are typically based upon current “Liveable Neighbourhood” policy guidelines - where 100% of the area covered by the 1 in 1 year event of each compensating basin is typically not included as a “usable” or “unrestricted” POS area. The area between the 1 in 1 year and 1 in 5 year storms is typically rated as restricted although this cannot exceed 20% of the POS allocation.

There will be no impact on the POS due to the drainage, given that it will be located outside the POS area.

3.6.3 Irrigation Requirements for Landscape Areas

3.6.3.1 Water Source and Required Allocations

As part of this development, one parcel of POS will be created between the western roadway in the development and Kadina Brook totalling some 9,644 square metres.

Allowing the allowable irrigation volumes of 7,500kl per hectare per annum, an allocation will need to be sought for some 7,233kl per annum for this additional POS area. The POS area is abutting the previously developed portion of the foreshore reserve. There appears to be an existing bore close to Helena Valley Road which would make sense to connect into that irrigation system to utilise for the irrigation of this POS parcel. Alternatively a new bore will be installed to service the area.

An application for an allocation has been made to DWER which has been approved and a copy of the licence is within Appendix F.

3.6.3.2 Irrigation Schedules

In general, watering will be 10mm three times per day for initial establishment over a period of approximately 1 month, depending on the weather and the time of the year. This will be reduced to 10mm once per day for a period of approximately 2 months again dependent on the time of year. The watering is then reduced to 10mm every two days.

Establishment irrigation for street trees and POS planting is expected to be used for a period of 3 to a maximum of 5 years after planting.

As part of the landscape works, the top 300mm of soil in the landscaped areas will be improved to ensure free drainage and nutrient retention prior to planting.

Irrigation will be programmed and maintained to minimize the water used across the site, with the following mechanisms to minimize water use.

Monitoring and Adjustment: The system will be checked regularly to detect faults and ensure water is being used effectively and efficiently.

In general the system will be checked at a frequency of



- November to April - Once per fortnight.
- May to October - Once a Month.

All sprinklers will be checked to fully pop-up and retract, bubblers and that nozzles are free of blockages and sprinklers are providing adequate coverage. Particular attention will be paid to irrigation of transplanted mature trees and street trees to ensure they are receiving adequate water.

The watering regime for planted areas shall reflect the plant's needs in accordance with the plant type and natural rainfall, in accordance with the Water Corporation of WA "Waterwise" guidelines. Watering will be monitored throughout the year and adjusted accordingly to ensure appropriate watering. Watering (Other than testing) will only take place within the hours stipulated by the DoW as a condition of the groundwater licence (Currently 6.00pm to 9.00am)

In general the Irrigation Schedule will be as outlined below, which are based on the landscape hydrozones

- Turf will be separated from shrubbery and turf and shrubbery will be supplied by different stations of irrigation and will be scheduled separately.
- Areas of turf subject to lower wear which are in sheltered environments and/or are not visually prominent will be scheduled to receive a lesser amount of irrigation than areas of turf which are subject to high levels of wear, in exposed environments and/or visually prominent locations;
- Lower water use shrubbery is scheduled to receive a lesser amount of water than higher water use shrubbery; and,
- Irrigation is to be progressively withdrawn from areas of native shrubbery.

4 Water Sustainability Initiatives

4.1 General

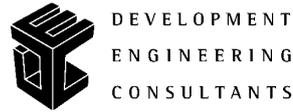
In terms of water conservation, there is a growing acceptance of current water conservation initiatives being promoted by both the state and federal governments. Much of the water conservation effort needs to focus on encouraging the community to use water saving devices and appliances; promoting the use of plants appropriate to the local area and by providing information and community education programs about water conservation issues on a regular basis.

As part of sales documentation a flier will be provided to provide advice and encouragement for purchasers to utilize these initiatives as part of their housing construction works.

4.2 Water Supply and Efficiency Measures

It is widely accepted that current use of scheme water by Perth's households is unsustainable. The Water Corporation's "Domestic Water Study" (Water Corporation 2003) highlighted that in 2003 the average Perth household used 460 kilolitres (kL) of water per year. Of this total, almost 260kL was used in the watering of gardens.

The Western Australian 2003 State Water Strategy set a target of reducing the average per household potable water consumption (served by the Integrated Water Supply Scheme) to



155kL/year by 2012. The current consumption target for water of 100kL/person/yr, (State Water Plan target) includes no more than 40-60kL/person/yr of scheme water. This figure includes both in-house and ex-house demands.

The general approach to achieve these is to encourage the following water efficiency measures to be implemented by purchasers as part of development proposals:

- Limiting water through a minimum of 3 star efficiency household plumbing fixtures – encouraged by the government through financial incentives.
- Covering all new swimming pools as now required by legislation.
- Use of Domestic Bores for Irrigation
- Encouragement of waterwise garden measures including;
 - Flow regulators.
 - Rainwater Tanks
 - Use of garden Bores

This will be achieved through provision of fliers to purchasers to assist in the selection of waterwise products and to provide advice on various incentive schemes available. These approaches cannot be mandated, but will be encouraged.

4.3 Alternative Water Supply Scheme

No “alternative” water supply scheme is to be used in this development, the development will be connected to the Water Corporations reticulated water system.

4.4 Wastewater Management

Standard Water Corporation reticulated sewer is to be used in this development.

5 Stormwater and Groundwater Management

5.1 Pre-Development Hydrology

As outlined in Section 3.4 the site consists fill overlying clay which flows towards the Kadina Brook and Helena River.

The predevelopment modelling as part of the LWMS indicated that an average flow from the site was around 81l/s/ha. This is substantially greater than the work done by DEC in 2006 and by Belleng VDM² for upstream catchments at the same time. As a result, it is proposed to adopt the more conservative lower outflow for the drainage design criteria.

Applying AEP factors in general accord with the AR and R recommendations results in the following allowable outflows:

Table 5.1 – Predevelopment Flows from Catchments (per Unit Area)

AEP	1EY (l/s/ha)	20% AEP (l/s/ha)	10% AEP (l/s/ha)	1% AEP (l/s/ha)
Flow/ha	3.1	11.2	14.9	43.7

Although the total site area is some 13.7ha, a large portion of the site abutting the Helena River and Kadina Brook will remain in its natural state without the need for further



detention storage or nutrient treatment. Based on the total development catchment only which is some 5.65ha, the predevelopment flows from the area were calculated to be:

Table 5.2 – Predevelopment Flows from the Site (Development Area 5.65ha)

AEP	1EY (l/s/ha)	20% AEP (l/s/ha)	10% AEP (l/s/ha)	1% AEP (l/s/ha)
Flow	17.5	63.3	84.2	247

As outlined in Section 3.4 there is an existing drainage basin located between Allamanda gate and Carabeen Ave, this overflows into the subject land into a localized depression formed during the filling of the area. As part of the drainage for the development, this outlet is proposed to be piped as a separate line to the ultimate outlet to the Helena valley. Given the existing outlet level, this will be quite deep in comparison to the development drainage system and will be laid as a solid pipe to ensure it does not collect subsoil flows. The pipe has been sized to accommodate the 1% AEP outflow from the existing basin and is shown in Drawings U-05 and U-06 in Appendix C.

5.2 Flood Protection

5.2.1 Comparison to Emerge Local Water Management Strategy (LWMS)

The Emerge LWMS proposed to install swales along the roadways which at the time were proposed to be abutting POS areas, particularly the extension of Parkview Gardens. They also proposed two drainage basins, one to the north west of the site behind the proposed lots and another to the west abutting Kadina Brook. Both these locations are located in very steep terrain and both are impacted by existing trees. The earthworks and retaining to accommodate the basins as per the LWMS would be significant and would not result in an aesthetically pleasing outcome. As a result, it is still proposed to construct two basins, but in different locations as per Drawing U-04 in Appendix B.

Basin 1 is proposed in future lots 77-79 and will be located in an easement in favour of the Shire of Mundaring. The basin has been located at the base of the steep embankment between the development and the river foreshore but has been located high enough to be above the 1% AEP flood level of the Helena River. The basin has been located outside any of the area of uncontrolled historical filling. The basin has been located and checked on site with the Shire of Mundaring to minimise earthworks and has been located between trees to minimise any clearing and maximise the aesthetic outcome.

In terms of the proposed swales, there is a practical implementation problem with the swale on the extension of Parkview Gardens and Melita Drive (Northern side). The new proposal is to create allotments on the northern side of Melita Drive which would mean that swales will be difficult to accommodate with driveways. In addition to that, to ensure earthworks appropriately balance and allotments are constructed in sympathy with abutting areas, the entire length on Melita has been constructed with a saw tooth design to achieve minimum longitudinal grade for pavement drainage. Effectively, the land falls by 0.3m over the length of the road. Assuming that the swale is 0.3m deep at the eastern end assuming the 1 in 500 minimum grade as suggested by the LWMS, the swale will be around 0.8m deep at the western end, which is clearly too deep to accommodate within the road reserve. As a result it is proposed as part of this UWMP that apart from the small area served by Basin 2, all the bio-retention area be provided within Basin 1.



The LWMS was silent on the requirements for lot connection pits, but did outline the need for each allotment to hold the 1EY storm prior to outflow. Given that the site has a clay base and it is only proposed to fill some 1.2m over the clay base, it is proposed that lot connection pits be provided. These would allow overflow from soakwells, which will occur at least once per annum, to flow into the street drainage system.

5.2.2 General Drainage Approach

The main stormwater drainage strategy is proposed to dispose of water by a combination of soakage and outflow.

Subsoil drainage will be installed along each roadway to ensure that the groundwater is controlled over the site and ensure that soakwells installed within allotments will operate effectively.

The outlet to Drainage Basin 1 is proposed as a control weir to ensure that outflows will be limited to predevelopment rates. Subsoil outflows will be directed through the bio retention basins prior to outflow to the Helena River and the Parkview Gardens drainage system respectively.

Lots have been modelled with the equivalent of 2 by 1.5m diameter by 1.2m deep soakwells. For the lower ARI storms there will be no surcharge or run-off. For the larger storms, stormwater will surcharge and overflow into piped drainage connections provided to allotments. Modelling for a standard lot has been shown for the various AEP storms in Appendix D.

The additional approach is for all earthworks to be shaped to direct all roadways to the drainage basins to ensure conveyance of the 1% AEP storm. Piped drainage systems for the minor event will be sized for the 20% AEP storm.

5.2.3 1% AEP Storm

5.2.3.1 General Design Principles

The earthworks design has been prepared to ensure that the major storm events are directed to drainage basin locations. Lot levels will be set above road levels, meaning that even if water floods areas of roads, it will surcharge and flood to POS areas without flooding homes thereby providing the design flood routes as required by proper drainage management.

The post development catchment plan (Drawing U-04) which details the catchment boundaries, the areas and the basin details is shown in Appendix C. There are two basins proposed; Basin 1 located within an easement in future Lots 77-79 abutting the Helena Valley flood plan and Basin 2 in the verge of Parkview Gardens abutting Broz Park. The side slopes are proposed to be gentle (1 in 6) in the main with some localized steepening as required preserve significant trees.

The basin details are as outlined in the table below:

Table 5.1 – Drainage Basin Areas of Inundation and Storage Volumes

Total Area – Including the Extra Development Area to the North	Basin 1 Details	Basin 2 Details
Gross Catchment (Ha)	5.31	0.28

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



Total Area – Including the Extra Development Area to the North	Basin 1 Details	Basin 2 Details
Effective Impervious Area (1% AEP)	3.04	0.16
Storage Provided m ³ (1% AEP)	558	30
Retention Time(100Yr) Hours	10	9
TWL (1%AEP) mAHD	12.17	14.48
Allowable Outflow (1% AEP) (l/s)	232	12
LWL mAHD	11.50	13.9
Height above CGL (m)	0.30	0.30
Storage Provided m ³ (20% AEP)	405	18
Retention Time(20%AEP) Hours	17	6
Allowable Outflow (20% AEP) (l/s)	80	3.1
Storage Provided m ³ (1EY)	2405	13
Allowable Outflow (1 EY) (l/s)	17	0.9
Site Area Required/Area of Inundation (m ²) – 1% AEP	989	108
Site Area Required/Area of Inundation (m ²) – 20% AEP	810	78
Site Area Required/Area of Inundation (m ²) – 1 EY	810	66

As outlined the groundwater level in the area is generally perched due to the clay base. As a result subsoils are proposed to be located some 0.3m below the base of both basins to ensure that basin will drain effectively and minimise standing water times.

The 1% AEP event plan, which details the extent of flooding across the site for the 1% AEP, is detailed in Drawing U-05 in Appendix B. To ensure the earthworks design works from an economic perspective, the 1% AEP storms have been directed to both the existing basin and the new proposed basins. Effectively the existing basin is surrounded by development and as a result, the outflow pipeline proposed along Melita Drive to the Helena River has been sized to accommodate the 1% AEP storm. Calculations for the capacity of the pipeline have been included in Appendix D.

5.2.3.2 Impact of the Back Flooding of Helena River and Kadina Brook

The site is located within the flood fringe area of the Kadina Brook and Helena River. According to DWER flood mapping, the flood level of Helena River abutting the site is at RL10.5m AHD, which is well below the minimum site levels. The base of the drainage basin abutting the flood plain is at RL11.50mAHD which is also well above the flood level. The discharge from the basin is graded to the flood plain to minimize any erosion impact and discharges at around RL10.44 which is more or less at the 1% AEP back flooding level.

The flood levels have been plotted on Drawing U-04.



5.3 Stormwater Management System

5.3.1 1 EY Events

5.3.1.1 Allotments

The 1EY 1 hour drainage event will be detained on site with outflows limited to predevelopment outflow rates. Drainage basins will be designed with bio retention areas at the base to provide nutrient uptake prior to outflow.

All allotments will be required to contain at least the 1 EY 1 hour storm on site prior to any overflow.

Each lot has been modeled with the equivalent of 2 by 1.5m diameter by 1.2m deep soakwells. For the lower AEP storms there will be no surcharge or run-off and the soakwells will leach into the subsoil system aligned along the roadway. For the larger storms, stormwater will surcharge and overflow to the road drainage system through drainage connections provided for each lot.

Calculations for the “at lot” detention impact on the effective run-off from lots are shown in Appendix D.

As an alternative to this and in combination with the soakwells, all lot owners will be encouraged to install rainwater tanks plumbed into their homes for household use to help to conserve water and to retain all rainfall on-site.

The various catchments of all the lots and roadways are detailed in Drawing U-04 in Appendix B.

5.3.1.2 Roadways

The 1 EY storm for roadways, will be detained within in the end of line Basins 1 and 2 which are essentially soakage basins with outflow limited to pre development rates.

The outlet to the each basin will be constructed with a control weir. The 1EY 1 hour storm will be contained within the basin with no outflow other than leaching through the subsurface subsoil drainage system.

5.3.1.1 Detention Basin

Both detention basins will be required to limit the outflow from the site for all storms. As outlined in Section 5.2.1.1, water from allotments will flow direct from allotments after “at lot” detention of the 1EY 1 Hour storm. The capacity allocated to the outflow from the basin is the predevelopment flows proportioned to the catchment area as outlined in Section 5.1.

The outlet will be set at the 1EY 1 Hour storm level, meaning no outflow will occur prior to this storm other than infiltration through the subsoil system. Subsoil drainage will be installed beneath the basin to ensure water will drain from the basin within a reasonable time period. The water will be drained within the 72 hour period as required by the WA Health Guidelines. This will ensure that the 1EY 1 hour year run-off from contributing areas will be retained within the base area to be treated prior to any outflow.



The outflow from the basin will be controlled using a weir to limit outflows to predevelopment levels and maximise retention of stormwater to ensure sufficient treatment times. In essence, as the water level rises and the storage is reached, the outflow will increase. The outflow configurations are detailed in Drawing D-02 in Appendix C and calculations for outlet drainage structures are included in Appendix D.

5.3.2 20% AEP event

For the design nuisance storm event (20% AEP storm), storm water runoff from road pavements will be piped to the detention/bio-retention basin as shown in Drawing D-02 in Appendix C. The extent of flooding for this event is limited to basin areas.

Piped drainage systems detailing pipe sizes are included in Drawings U-05 and U-06 in Appendix C.

5.3.3 Non Structural Management Practices

It is well recognised that education of residents in terms of education and behaviour management of stakeholders will minimise the nutrient emanating from a catchment.

Non structural measures will also be employed to reduce the sources of nutrients. These measures involve providing advice to lot purchasers and stakeholders to reduce nutrient sources from the application of garden fertilisers and eroded particulate matter particularly from the new urban areas during the housing construction phase and in establishment of gardens.

Minimisation of nutrient loading can obviously be achieved through:

- Education of local residents and Council maintenance personnel; and
- By implementing frequent street and storm water maintenance programs – particularly during housing construction.
- By planting and using appropriate native species.

5.4 *Post- Development Groundwater Levels and Fill Requirements*

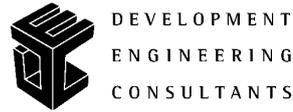
5.4.1 Groundwater Level Management

At the existing sand clay interface in which the clay is relatively impervious, leads to perching of surface water.

As a result all drainage parallel with roadways will be constructed to the detail shown in Drawing U-08 in Appendix C to ensure that groundwater is controlled to the measured levels as plotted on Drawings U-03 and U-04.

5.4.2 Groundwater Quality Management Strategies

Surface water which will perch then be collected using subsoils which will in turn be routed through drainage basin areas to ensure biological treatment of the water prior to outflow.



5.4.3 Finished Lot Levels (Relative to the phreatic line)

Lot fill levels have been set a minimum of 1.2m above the measured groundwater levels.

This height in conjunction with the extensive subsoil drainage system will ensure that soakwells are effective and subsurface perching does not occur and will ensure that the required structural site classification will be achieved.

6 Managing Subdivision Works

6.1 Background:

The DWER Stormwater Manual provides guidelines and information on best management practices that may be applied at land development and construction sites to improve stormwater management and environmental performance.

A construction management plan and environmental management plan will be required to be prepared prior to commencement of works. The management plan will be dependent on construction methodology, the machinery proposed to be used and the time of year the works are done and will be prepared by the contractor undertaking the works with oversight from the developers appointed engineers.

Poorly managed land development sites can often be a major source of stormwater pollution. Certain construction activities can allow pollutants to be transported (via existing stormwater systems or over-land flow) to adjoining receiving water bodies.

Common sources of pollutants from construction activities include those from:

- Litter & waste storage areas- that allow materials to be blown by wind or washed away by rainfall into existing stormwater systems.
- Wash-down areas– poor practices can allow materials to enter stormwater systems.
- Placement & storage of delivered products- particularly sand and soil stockpiles where such materials may be tracked by vehicles onto roads, or blown, or washed on to roads which then get into existing stormwater systems.

6.2 Actions to Address Acid Sulfate Soils &/or Contamination

Acid Sulphate soils investigations indicated that all soils within 3.0m of surface levels were a moderate to low risk of Acid Sulphate Soils occurring.

The existing deep sewer has been installed through the site and the remaining services required for the development are generally shallow and dewatering is unlikely to be required other than for surface water if works are undertaken in periods of wet weather. If any dewatering is required, effluent will be measured and if samples indicate trigger levels are exceeded, lime treatment will be introduced to ensure that the discharge levels meet required criteria.

In the event that trigger levels within groundwater are reached, soils will be sampled for assessment to resolved required lime dosing levels.



6.3 Protection of Environmental Assets

Careful management of erosion during both construction and on completion will need to be undertaken to ensure that silt does not reach the Helena River or the Kadina Brook. The direction of all stormwater run-off to the basin prior to outflow and the construction of erosion protection measures at the outflow location will ensure that when the drainage system is implemented, any erosion will be adequately controlled. During construction it is envisaged that temporary siltation basins in conjunction with silt fences will be required to limit the potential risk of overflow to the river, particularly if work is undertaken in the wetter months.

The final measures will need to be incorporated within an environmental management plan which will be prepared by the contractor undertaking the work and will be dependent on; the time of year the works are done and the proposed construction methodology.

6.4 Management of Disease Vectors and Nuisance Insects

6.4.1 Insect and Disease Control

Where evident, steps will be taken to remove pests and or contain disease and keep all plant material in a healthy condition.

In general all water will soak away within 72 hours after rain ceases, which will assist with management of pests such as mosquitos and midge. The times for soakage are outlined in the drainage calculations included in Appendix C.

Insect numbers will be monitored and if numbers appear to be increasing to unacceptably high levels, resulting in regular resident complaints, the infested areas will be treated by an approved pesticide of low toxicity. Pesticides shall be used in strict accordance with the manufacturer's instructions at minimum rates. Biodegradable pesticides shall be used wherever possible.

Care will be taken in application of chemicals to minimize any toxic effect on plant, animal or person. Chemicals used in plant maintenance will be applied in accord with Health department Standards and Regulations.

6.4.2 Use of Herbicides and Pesticides

Application will only be made by Licensed Pesticide Operators. Chemical sprays will be used only in still conditions and during weekday early mornings or otherwise when public use of the site is likely to be at a minimum. Chemicals will only be applied strictly in accordance with Health Department regulations and the Manufacturer's recommendations.

Pesticides will not be applied within 10 metres of water bodies. Only "aquatic fauna safe" herbicide ("Round up Bi-Active") will be used within 20 metres of water bodies.

During application, the contractor will take all precautions necessary to avoid overspray, drift or contamination away from the target vegetation.

6.5 Proposed Management Strategies:

No contractor will be permitted to commence any construction activities on the site until an appropriate Environmental Management Plan (EMP) that fully addresses:

- litter and waste management practices (non-hazardous & hazardous materials);
- vehicle & equipment washing-down practices;
- water conservation practices;
- erosion and sediment control (based upon based on site conditions);
- product placement & storage practices;
- dewatering activities (if applicable); and
- Any other practices that may adversely impact upon receiving water bodies.

7 Monitoring Programme:

7.1 General

Post development monitoring is proposed to be undertaken over the site quarterly following the completion of the first stage. It is proposed to monitor surface water and groundwater as outlined within the LWMS. The surface water monitoring points will be at different locations to that shown in the LWMS given the different basin locations. The monitoring points are proposed to be upstream and downstream of basins as detailed in Drawing U-04 in Appendix B.

Groundwater monitoring will be undertaken in bores upstream and downstream of the main bioretention area.

Trigger levels as recommended in the LWMS have been included in Table 7.1 below. These have been established from the baseline levels measured on site prior to any development and have been agreed with DWER.

The water will be measured and samples will be sent to a NATA registered laboratory to undertake the following tests:

Table 7.1 – Proposed Post Development testing regime

Test	Abbreviation	Trigger level
Total Phosphorous (mg/l)	TP	0.22
Nitrate and Nitrite (mg/l)	NOx	0.03
Ammonia-Nitrogen (mg/l)	NH ₃	0.10
Total Kjeldahl Nitrogen (mg/l)	TKN	1.0
Salinity (mS/cm)	EC or TDS	1.045
pH		5.45-8.0
Temperature		

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



Test	Abbreviation	Trigger level
Heavy metals		
Polyfluoroalkyl Compounds (PFAS)		
Hydrocarbons		

Note: Testing will include a full chemical analysis of water quality, inclusive of metals in the first instance, but metals will not be sampled beyond the first 12 months (As per DWER Policy), but if there are any aberrations in results which require further testing of metals, this will be implemented as required.

The water will be sampled quarterly January, March, June and October. The locations of the proposed surface water monitoring points are shown in Drawing U-04 in Appendix B.

The monitoring is proposed to be carried out for three years following completion of the last stage of civil construction and until hand over of the POS to the Shire of Mundaring, whichever is the latter.

Testing for Heavy Metals, PFAS and hydrocarbons will be compared to test data from the environmental investigations as part of the remediation action plan⁶ to ensure these contaminants are remaining on site and are not mobilized into the stormwater leaving the site.

An annual report will be submitted to the Shire of Mundaring and the DoW until 2 years after the completion of the last stage.

7.2 Contingency Measures:

The results will be compared between the initial results to those measured each year.

In the event that any of the indicators from the sampling exceeds the initial measurements by 10% for two consecutive samples, Council and DoW will be notified and the matter will be investigated at the developers cost.

The possible contingency measures are as follows:

1. Reduction in irrigation or fertiliser use in key areas and review of timing.
2. Soil amendment in high nutrient areas
3. Increased density or alternative selection for planting of water and nutrient absorbing plants in drainage basin areas.

The measures employed and the timing will be resolved at the time with the DoW and Council.

8 Implementation Plan

8.1 General

The developer is committed to

- 1) Physical Outcomes – To be undertaken at the time of construction.
 - Installing the physical measures as outlined within this report.



- Installing compensating basin designed and constructed to manage flows up to and including the 1% AEP storm event.
- 2) Non Structural – To be undertaken as part of sales documentation, by providing Information Packages to all lot purchasers to:
 - Fully inform lot owners of the requirement to retain all rainfall on-site up to the 1 EY (1 hour) ARI event
 - To encourage the use of rainwater tanks (plumbed into their homes); and
 - To utilise water efficient devices & appliances throughout their homes, and to encourage all purchasers to install Water & Nutrient-wise plants.

8.2 Maintenance Arrangements (Incl. Roles, Responsibilities & Funding)

8.2.1 Internal to Allotments

Each property owner will be encouraged to regularly inspect and clean their internal drainage systems including gutters, pipework – at least on an annual basis. This is well covered in current media releases and in Council notices.

8.2.2 Stormwater System

Over the summer period, particulate matter will build up in the storm water drainage system, within the trapped pit bases and soakwells. In the initial years of housing construction this will be from soil washed into the storm water system, although leaves, litter and grass clippings are more likely to reach the system in the longer term.

Although the system will operate with these small volumes of litter and leaves without their removal, if left for long periods of time they will break down and contribute to higher nutrient outflows from the site. As a result a regular maintenance programme is necessary with the following periodic maintenance required:

- Cleaning of drainage infrastructure. This is by sucking debris from drainage pits, and from the soakwells.
- Regular Street Sweeping to remove particulate build-up on the road surface and in gutters.
- Appropriate disposal or composting of grass clippings ensuring that they do not reach the storm water system. As an example, use of blowers and suchlike to blow clippings into stormwater systems is not supported.

Drainage infrastructure maintenance should at least occur on a biannual basis - just prior to winter & again in the middle of winter and obviously more regularly during periods of major housing construction. Maintenance of pits & street sweeping will need to occur at 3 month intervals further work may be required depending on the loading.

Subsoil lines should require minimal maintenance due to the design proposal, however in the initial years the developer will flush the lines at least annually.

The drainage basins are typically constructed to provide capability for some sediment build up. The trapped upstream pits, in conjunction with the flat surface gradients of the site will control silt loadings and reduce inlet scour.



It is anticipated that only standard Council checks and cleaning maintenance requirements will need to be applied to the drainage system developed for this subdivision – with suggested maintenance frequencies as outlined in Table 8.1.

Table 8.1 – Proposed Maintenance Responsibilities for Drainage Elements of the proposed development

#	Drainage Element:	Possible Maintenance and Inspection Frequency:	Responsibility:
1	Internal Allotment Drainage System	Annually inspection & clean-out (as necessary) – just prior to winter rains	Lot Owner
2	Subsoil Drainage Systems	<u>During developer defects liability period</u> and until the last stage of the development or the houses within the catchment are substantially completed, whichever is earlier. Inspect, clean-out & flush lines annually. <u>After developer defects liability period:</u> Inspect, clean-out & maintain structures as required.	Developer Council
3	Vegetated bio-retention basin and landscaped detention basins	<u>During developer maintenance period:</u> Inspect, clean-out & maintain plants ~2 - 3 month intervals (depending on loading) – as part of POS maintenance works. Inspect, clean-out & maintain structures tri-annually – just prior to winter & then around June / July & again in Oct / Nov for the first two years <u>After developer maintenance period:</u> Inspect, clean-out & maintain plants (as required) as part of standard Council POS maintenance program	Developer Council
4	Drainage culverts, standard table drains, pipes, pits.	<u>During developer maintenance period:</u> Inspect, clean-out & maintain pits tri-annually – just prior to winter & then around June / Aug – but inspection frequency will need to be higher during home construction phase <u>After developer maintenance period:</u> Inspect, clean-out & maintain structures at least annually – just prior to winter – but inspection frequency will need to be higher during home construction phase.	Developer Council
5	Base of compensating & bio-retention basins	Initial formal inspection & assessment of performance of basins at year 2 prior to hand over & then every 5 – 10 years.	Developer/Council

8.3 Assessment and Review

It is not expected that this UWMP for this development will need to be reviewed after it is accepted / approved by the relevant authorities.

9 References:

1. Lots 2, 3 & 6 Midland Road, Helena Valley, Local Water Management Strategy (Project Number EP11-058), Emerge Associates, September 2015
2. Environmental Geology mapping Perth part sheets 2034 II and part 2034 III and 2134III, Gozzard JR., 1986
3. Lots 229 and 230 Helena Valley Road, Helena Valley WA Hydraulic Impact Assessment, Belleng VDM Pty Ltd, September 2006
4. Australian Rainfall and Run-off A Guide to Flood Estimation Volume 1, Institute of Engineers, 1987
5. Perth Groundwater Atlas (Edition 4), Department of Environment, 2004

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



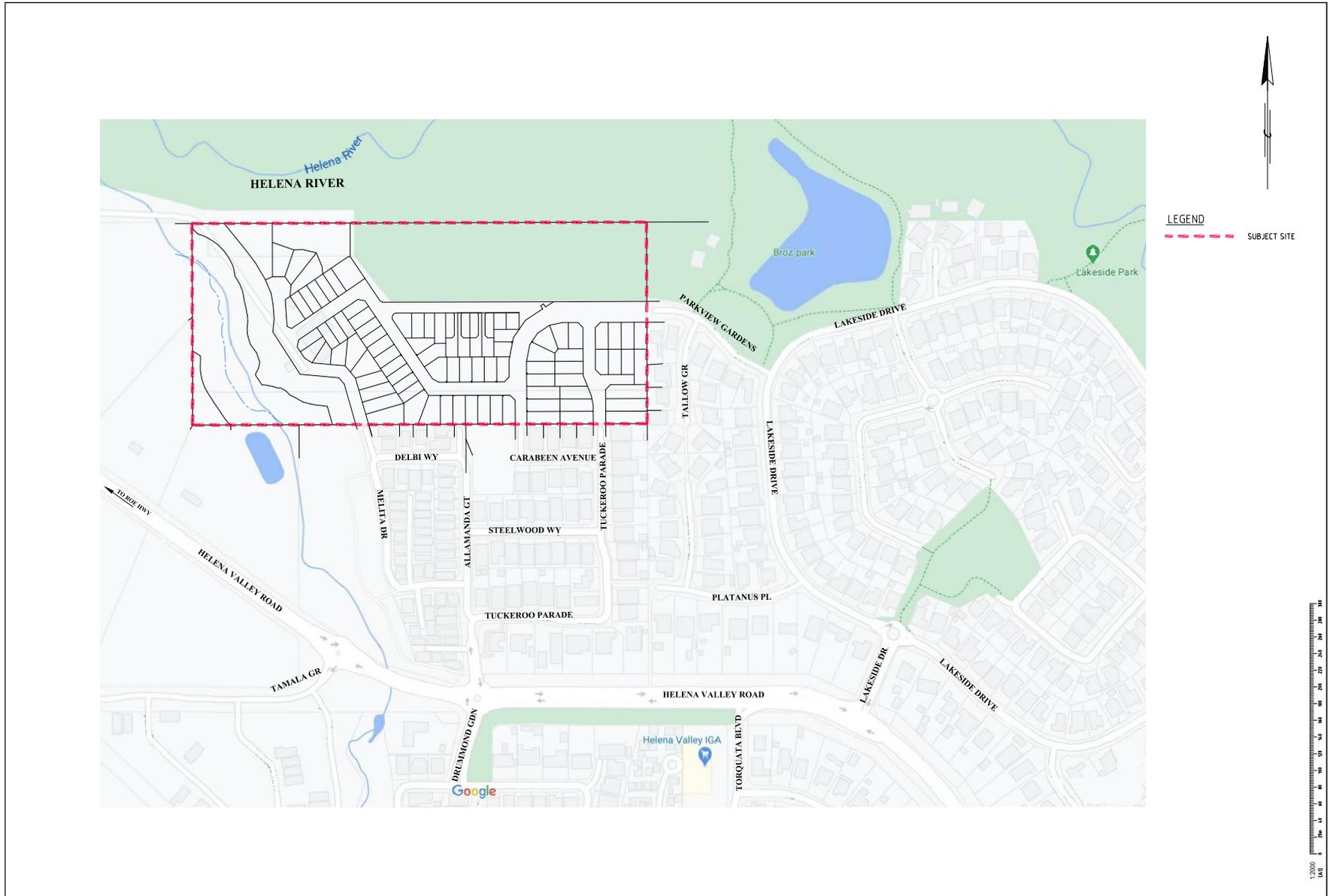
6. Remediation Action Plan, Lots 2, 3 and 6 Midland Road – Stages 1A and 1B, Emerge Associates, June 2021



APPENDIX A – OVERALL PLANS

- **Drawing U-01 – Locality Plan**
- **Drawing U-02 – Aerial Photograph with Development Plan Superimposed Thereon**
- **WAPC Approval 156 909 with Approved Plan**
- **Proposed Ultimate Development plan – Land Surveys 2400205-PR-002-D**

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



LEGEND
 SUBJECT SITE



<small>Copyright This document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and is not to be reproduced or distributed in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Development Engineering Consultants Pty Ltd.</small>		CLIENT: NOBLE HODGE PTY LTD
DATE: 18/07/24 BY: SWM CHECKED: PRICAL AMENDED DESIGNED: SWM DRAWING NUMBER: HVYRGO01	DATE: 18/07/24 BY: SWM CHECKED: PRICAL AMENDED DESIGNED: SWM DRAWING NUMBER: HVYRGO01	DATE: 18/07/24 BY: SWM CHECKED: PRICAL AMENDED DESIGNED: SWM DRAWING NUMBER: HVYRGO01

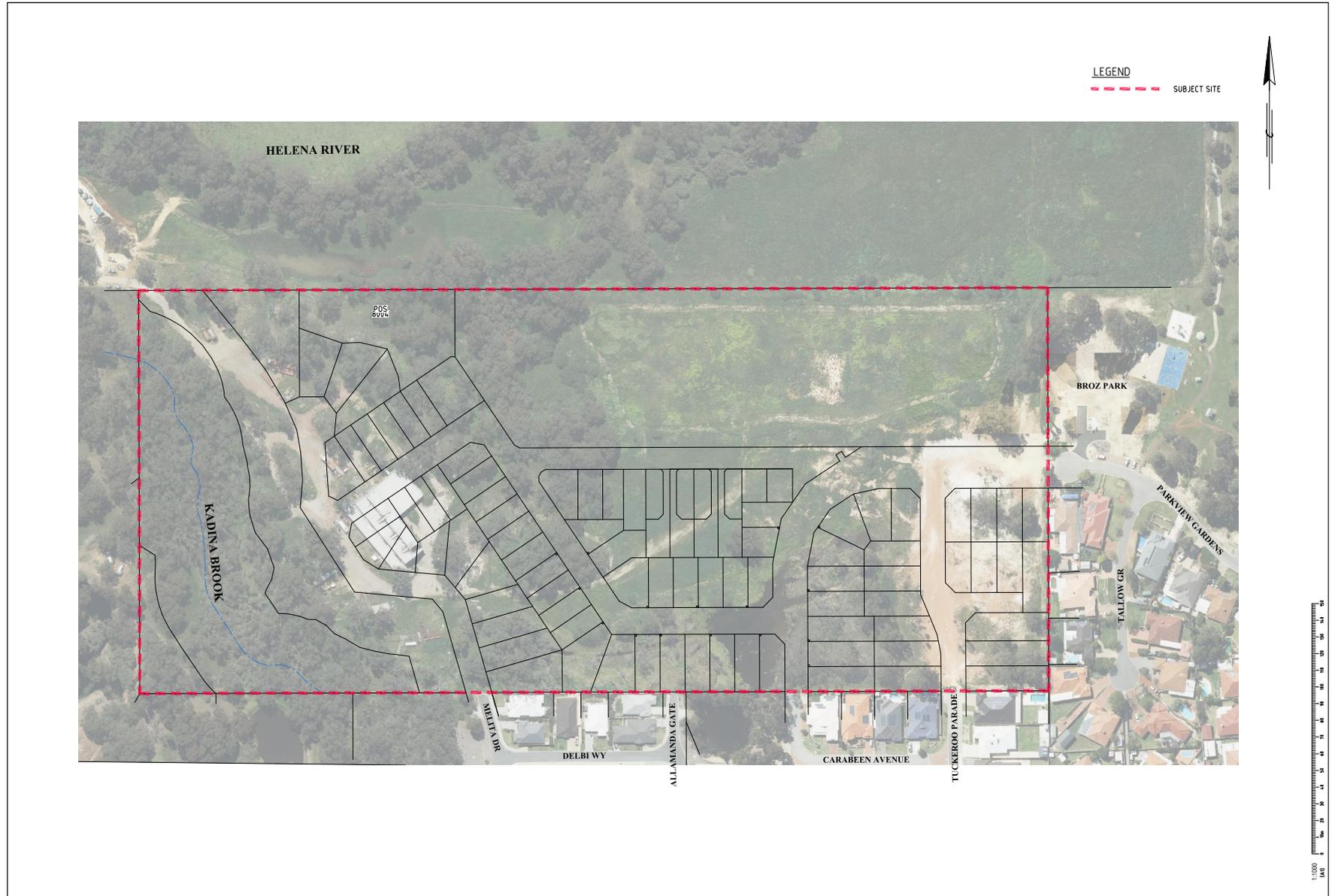
CLIENT: NOBLE HODGE PTY LTD


**DEVELOPMENT
 ENGINEERING
 CONSULTANTS**
 SUITE 3, 1234 COLIN ST,
 WEST PERTH 6005
 WESTERN AUSTRALIA
 Ph: (08) 9481 1900
 Fax: (08) 9481 1100

PROJECT: LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY

DRAWING: URBAN WATER MANAGEMENT PLAN LOCALITY PLAN VL=00A0

SCALE: 1:2000 DATE: MAY '24 PROJECT NUMBER: HVYRGO01	DRAWN: WJB DESIGNED: WJB CHECKED: WJB APPROVED: SRA DRAWING NUMBER: HVYRGO01	CHECK: SRA APPROVED: SRA DRAWING NUMBER: HVYRGO01	REV No: B
--	--	---	-----------



<p><small>Copyright</small> This document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and is not to be used for any other purpose without the written consent of Development Engineering Consultants Pty Ltd.</p>	
<p>DATE: 18/07/24</p>	<p>BY: SWM PRELIM AMENDED</p>
<p>DATE: 18/07/24</p>	<p>BY: SWM PRELIM AMENDED</p>

CLIENT:
NOBLE HODGE PTY LTD

DEVELOPMENT ENGINEERING CONSULTANTS
 SUITE 3, 123A COLIN ST.
 WEST PERTH 6005
 WESTERN AUSTRALIA
 Ph: (08) 9481 1900
 Fax: (08) 9481 1100

PROJECT: **LOTS 2, 3 & 6 MIDLAND ROAD
HELENA VALLEY**

DRAWING:
URBAN WATER MANAGEMENT PLAN
AERIAL PHOTO
1:10000

SCALE: 1:1000	DRAWN: WJB	CHECK: SRA	REV No: B
DATE: 18/07/24	DESIGNED: WJB	APPROVED: SRA	
PROJECT NUMBER: HVYRGO01	DRAWING NUMBER: 1102		



Your Ref : 17-809

Element Advisory Pty Ltd
Level 18, 191 St Georges Terrace

PERTH WA 6000

**Approval Subject To Condition(s)
Freehold (Green Title) Subdivision**

Application No : 156909

Planning and Development Act 2005

Applicant	: Element Advisory Pty Ltd Level 18, 191 St Georges Terrace PERTH WA 6000
Owner	: Nick Di Candilo P O Box 1109 MIDLAND DC WA 6936; Joseph Stefanelli, John Stefanelli, Shanklin Holdings Pty Ltd P O Box 266 MIDLAND DC WA 6936; Tattenhall Investments Pty Ltd 428 Great Northern Highway MIDDLE SWAN WA 6056
Application Receipt	: 29 June 2018

Lot Number	: 2, 3, 6
Diagram / Plan	: Diagrams 3284, 3259, 3958
Location	: -
C/T Volume/Folio	: 1409/591, 1409/592, 1409/593
Street Address	: Lot 2, 3, 6 Midland Road, Helena Valley
Local Government	: Shire of Mundaring

The Western Australian Planning Commission has considered the application referred to and is prepared to endorse a deposited plan in accordance with the plan date-stamped **29 June 2018** once the condition(s) set out have been fulfilled.

This decision is valid for **four years** from the date of this advice, which includes the lodgement of the deposited plan within this period.

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



The deposited plan for this approval and all required written advice confirming that the requirement(s) outlined in the condition(s) have been fulfilled must be submitted by **29 July 2023** or this approval no longer will remain valid.

Reconsideration - 28 days

Under section 151(1) of the *Planning and Development Act 2005*, the applicant/owner may, within 28 days from the date of this decision, make a written request to the WAPC to reconsider any condition(s) imposed in its decision. One of the matters to which the WAPC will have regard in reconsideration of its decision is whether there is compelling evidence by way of additional information or justification from the applicant/owner to warrant a reconsideration of the decision. A request for reconsideration is to be submitted to the WAPC on a Form 3A with appropriate fees. An application for reconsideration may be submitted to the WAPC prior to submission of an application for review. Form 3A and a schedule of fees are available on the WAPC website: <http://www.planning.wa.gov.au>

Right to apply for a review - 28 days

Should the applicant/owner be aggrieved by this decision, there is a right to apply for a review under Part 14 section 251 of the *Planning and Development Act 2005*. The application for review must be submitted in accordance with part 2 of the *State Administrative Tribunal Rules 2004* and should be lodged within 28 days of the date of this decision to: the State Administrative Tribunal, Level 6, State Administrative Tribunal Building, 565 Hay Street, PERTH, WA 6000. It is recommended that you contact the tribunal for further details: telephone 9219 3111 or go to its website: <http://www.sat.justice.wa.gov.au>

Deposited plan

The deposited plan is to be submitted to the Western Australian Land Information Authority (Landgate) for certification. Once certified, Landgate will forward it to the WAPC. In addition, the applicant/owner is responsible for submission of a Form 1C with appropriate fees to the WAPC requesting endorsement of the deposited plan. A copy of the deposited plan with confirmation of submission to Landgate is to be submitted with all required written advice confirming compliance with any condition(s) from the nominated agency/authority or local government. Form 1C and a schedule of fees are available on the WAPC website: <http://www.planning.wa.gov.au>

Condition(s)

The WAPC is prepared to endorse a deposited plan in accordance with the plan submitted once the condition(s) set out have been fulfilled.

The condition(s) of this approval are to be fulfilled to the satisfaction of the WAPC.

The condition(s) must be fulfilled before submission of a copy of the deposited plan for endorsement.

The agency/authority or local government noted in brackets at the end of the condition(s)

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



identify the body responsible for providing written advice confirming that the WAPC's requirement(s) outlined in the condition(s) have been fulfilled. The written advice of the agency/authority or local government is to be obtained by the applicant/owner. When the written advice of each identified agency/authority or local government has been obtained, it should be submitted to the WAPC with a Form 1C and appropriate fees and a copy of the deposited plan.

If there is no agency/authority or local government noted in brackets at the end of the condition(s), a written request for confirmation that the requirement(s) outlined in the condition(s) have been fulfilled should be submitted to the WAPC, prior to lodgement of the deposited plan for endorsement.

Prior to the commencement of any subdivision works or the implementation of any condition(s) in any other way, the applicant/owner is to liaise with the nominated agency/authority or local government on the requirement(s) it considers necessary to fulfil the condition(s).

The applicant/owner is to make reasonable enquiry to the nominated agency/authority or local government to obtain confirmation that the requirement(s) of the condition(s) have been fulfilled. This may include the provision of supplementary information. In the event that the nominated agency/authority or local government will not provide its written confirmation following reasonable enquiry, the applicant/owner then may approach the WAPC for confirmation that the condition(s) have been fulfilled.

In approaching the WAPC, the applicant/owner is to provide all necessary information, including proof of reasonable enquiry to the nominated agency/authority or local government.

The condition(s) of this approval, with accompanying advice, are:

CONDITION(S):

1. The plan of subdivision is to be modified in accordance with the attached plan dated 11 March 2019 with balance lots 1 and 3 to be amalgamated. (Western Australian Planning Commission)
2. Other than buildings, outbuildings and/or structures shown on the approved plan for retention, all buildings, outbuildings and/or structures present on lot(s) 2,3 & 6 at the time of subdivision approval being demolished and materials removed from the lot(s). (Local Government)
3. Engineering drawings and specifications are to be submitted, approved, and works undertaken in accordance with the approved engineering drawings, specifications and approved plan of subdivision, for grading and/or stabilisation of the site to ensure that:
 - a) lots can accommodate their intended use; and

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



- b) finished ground levels at the boundaries of the lot(s) the subject of this approval match or otherwise coordinate with the existing and/or proposed finished ground levels of the land abutting. (Local Government)
4. Prior to the commencement of subdivisional works, an urban water management plan is to be prepared and approved, in consultation with the Department of Water and Environmental Regulation and Department of Biodiversity, Conservation and Attractions (Estuaries Division), consistent with any approved Foreshore Management Plan and Local Water Management Strategy. (Local Government)
5. Engineering drawings and specifications are to be submitted and approved in consultation with the Department of Biodiversity, Conservation and Attractions (Estuaries Division) and works undertaken in accordance with the approved engineering drawings and specifications and approved plan of subdivision, for the filling and/or draining of the land, including ensuring that stormwater is contained on-site, or appropriately treated and connected to the local drainage system. Engineering drawings and specifications are to be in accordance with an approved Urban Water Management Plan (UWMP) for the site, or where no UWMP exists, to the satisfaction of the Western Australian Planning Commission. (Local Government)
6. Prior to the commencement of subdivisional works, the landowner/applicant is to provide a pre-works geotechnical report certifying that the land is physically capable of development or advising how the land is to be remediated and compacted to ensure it is capable of development; and

In the event that remediation works are required, the landowner/applicant is to provide a post geotechnical report certifying that all subdivisional works have been carried out in accordance with the pre-works geotechnical report. (Local Government).
7. Drainage easements and reserves as may be required by the local government for drainage infrastructure being shown on the diagram or plan of survey (deposited plan) as such, granted free of cost, and vested in that local government under Sections 152 and 167 of the *Planning and Development Act 2005*. (Local Government)
8. A management plan detailing how risk of erosion and sedimentation impacts into nearby water bodies will be minimised during subdivision is to be:
 - a) prepared by the landowner/applicant and approved prior to the commencement of subdivisional works; and
 - b) implemented during subdivisional works. (Department of Biodiversity, Conservation and Attractions Rivers (Estuaries Division))

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



9. Prior to the commencement of subdivision works a foreshore management plan for Kadina Brook is to be prepared and approved in consultation with Department of Biodiversity, Conservation and Attractions (Estuaries Division) and Department of Water and Environmental Regulation to ensure the protection and management of the sites environmental assets with satisfactory arrangements being made for the implementation of the approved plan. (Local Government)
10. Measures being taken to ensure the identification and protection of any vegetation on the site worthy of retention that is not impacted by subdivisional works, prior to commencement of subdivisional works. (Local Government).
11. A notification, pursuant to Section 165 of the *Planning and Development Act 2005* is to be placed on the certificates of title of the proposed lot(s) between the 20 ANEF and 25 ANEF airport noise contour. Notice of this notification is to be included on the diagram or plan of survey (deposited plan). The notification is to state as follows:

'This lot is situated in the vicinity of Perth Airport, and is currently affected, or may in the future, be affected by aircraft noise. Noise exposure levels are likely to increase in the future as a result of increases in numbers of aircraft using the airport, changes in aircraft type or other operational changes. Further information about aircraft noise, including development restrictions and noise insulation requirements for noise-affected properties, are available on request from the relevant local government offices.' (Western Australian Planning Commission)
12. A notification, pursuant to Section 165 of the *Planning and Development Act 2005* is to be placed on the certificate(s) of title of the proposed lot(s) with a Bushfire Attack Level(BAL) rating of 12.5 or above, advising of the existence of a hazard or other factor.

Notice of this notification is to be included on the diagram or plan of survey (deposited plan).

The notification is to state as follows:

"This land is within a bushfire prone area as designated by an Order made by the Fire and Emergency Services Commissioner and may be subject to a Bushfire Management Plan. Additional planning and building requirements may apply to development on this land". (Western Australian Planning Commission)
13. Information is to be provided to demonstrate that the measures contained in Section 6; Table 5 of the bushfire management plan prepared by Emerge Associates, dated April 2019 (Project No: EP18-099(01) have been implemented during subdivisional works. This information should include a completed 'Certification by Bushfire Consultant' from the bushfire management plan. (Local Government)

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



14. Local Development Plan(s) being prepared and approved for lots shown on the plan dated 11 March 2019 (attached) that address the following:
 - a) Passive surveillance to public open space;
 - b) Visually permeable and uniform fencing adjacent to public open space;
 - c) Orientation of primary dwelling/s on corner lot/s;
 - d) Designation of garage/carport locations;
 - e) Vehicle access restrictions for corner lots;
 - f) Setback and boundary wall requirements; and
 - g) Construction standards in the Bushfire Hazard - Special Control Area.to the satisfaction of the Western Australian Planning Commission. (Local Government)
15. The landowner/applicant shall make arrangements to ensure that prospective purchasers of lots subject of a Local Development Plan are advised in writing that Local Development Plan provisions apply (Local Government).
16. The proposed reserve(s) shown on the plan dated 11 March 2019 (attached) as established by survey being shown on the diagram or plan of survey (deposited plan) as reserve(s) for foreshore management, recreation and drainage (as applicable) and vested in the Crown under Section 152 of the *Planning and Development Act 2005*, such land to be ceded free of cost and without any payment of compensation by the Crown. (Local Government)
17. The proposed reserve(s) shown on the plan dated 11 March 2019 (attached) as established by survey being shown on the diagram or plan of survey (deposited plan) as reserve(s) for Foreshore Management and vested in the Crown under Section 152 of the *Planning and Development Act 2005*, such land to be ceded free of cost and without any payment of compensation by the Crown. (Western Australian Planning Commission)
18. Arrangements being made for the proposed public open space to be developed by the landowner/applicant to a minimum standard and maintained for two summers through the implementation of an approved landscape plan providing for the development and maintenance of the proposed public open space in accordance with the requirements of Liveable Neighbourhoods and to the specifications of the local government. (Local Government)

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



19. Engineering drawings and specifications are to be submitted, approved, and subdivisional works undertaken in accordance with the approved plan of subdivision, engineering drawings and specifications, to ensure that those lots not fronting an existing road are provided with frontage to a constructed road(s) connected by a constructed road(s) to the local road system and such road(s) are constructed and drained at the landowner/applicant's cost.

As an alternative, and subject to the agreement of the Local Government the Western Australian Planning Commission (WAPC) is prepared to accept the landowner/applicant paying to the local government the cost of such road works as estimated by the local government and the local government providing formal assurance to the WAPC confirming that the works will be completed within a reasonable period as agreed by the WAPC. (Local Government)

20. Engineering drawings and specifications are to be submitted and approved, and subdivisional works undertaken in accordance with the approved plan of subdivision, engineering drawings and specifications to ensure that:
- a) street lighting is installed on all new subdivisional roads to the standards of the relevant licensed service provider;
 - b) roads that have been designed to connect with existing or proposed roads abutting the subject land are coordinated so the road reserve location and width connect seamlessly;
 - c) temporary turning areas are provided to those subdivisional roads that are subject to future extension;
 - d) embayment parking is provided within the road reserve abutting the proposed Public Open Space and Foreshore Reserve; and
 - e) street trees are established in the road reserve.

to the satisfaction of the Western Australian Planning Commission. (Local Government)

21. Engineering drawings and specifications are to be submitted, approved, and subdivisional works undertaken in accordance with the approved plan of subdivision, engineering drawings and specifications, for the provision of shared paths through and connecting to the application area in accordance with the attached footpath plan dated 11 April 2019. The approved shared paths are to be constructed by the landowner/applicant. (Local Government)
22. All local streets within the subdivision being truncated in accordance with the Western Australian Planning Commission's *Liveable Neighbourhoods* policy (Local Government)

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



23. Prior to commencement of subdivision works, investigation for soil and groundwater contamination is to be carried out to determine if remediation is required. If required, remediation, including validation of remediation, of any contamination identified shall be completed prior to the issuing of titles in consultation with Department of Biodiversity, Conservation and Attractions (Estuaries Division) and to the satisfaction of the Western Australian Planning Commission, to ensure that the lots created are suitable for the proposed use. Investigations and remediation are to be carried out in compliance with the *Contaminated Sites Act 2003* and current Department of Water and Environmental Regulation Contaminated Sites Guidelines. (Department of Water and Environmental Regulation)
24. An acid sulphate soils self-assessment form and, if required as a result of the self-assessment, an acid sulphate soils report and an acid sulphate soils management plan shall be submitted to and approved by the Department of Water and Environmental Regulation before any subdivision works or development are commenced. Where an acid sulphate soils management plan is required to be submitted, all subdivision works shall be carried out in accordance with the approved management plan. (Department of Water and Environmental Regulation)
25. All septic sewer systems including all tanks and pipes and associated drainage systems (soak wells or leach drains) and any stormwater disposal systems are to be decommissioned, in accordance with the Health (Treatment of Sewerage and Disposal of Effluent and Liquid Waste) Regulations 1974, removed, filled with clean sand and compacted. Proof of decommissioning is to be provided in the form of either certification from a licensed plumber or a statutory declaration from the landowner/applicant, confirming that the site has been inspected and all septic tanks, soak wells, leach drains and any associated pipework have been removed. (Local Government)
26. Arrangements being made to the satisfaction of the Western Australian Planning Commission and to the specification of Western Power for the provision of an underground electricity supply to the lot(s) shown on the approved plan of subdivision. (Western Power)
27. Arrangements being made to the satisfaction of the Western Australian Planning Commission and to the specification of Western Power for the removal, relocation and/or replacement of electricity supply infrastructure, including plant and/or equipment located on or near the lots shown on the approved plan of subdivision. (Western Power)
28. The transfer of land as a Crown reserve free of cost to Western Power for the provision of electricity supply infrastructure. (Western Power)
29. Arrangements being made with a licenced water provider for the provision of a suitable water supply service to the lot(s) shown on the approved plan of subdivision. (Water Corporation)

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



30. Arrangements being made with the Water Corporation so that provision of a sewerage service will be available to the lots shown on the approved plan of subdivision. (Water Corporation)

ADVICE:

1. Prior to the commencement of subdivisional works, the landowner/applicant is advised to investigate whether or not approval is required pursuant to the *Aboriginal Heritage Act 1972*. The landowner/applicant should conduct a search of the Register of Aboriginal Sites to determine if any aboriginal sites have been recorded in the vicinity of their application, and this heritage information should be submitted to the Department of Planning Lands and Heritage (Indigenous Affairs) with a request for advice.
2. Condition 4 has been imposed in accordance with *Better Urban Water Management Guidelines (WAPC 2008)*. Further guidance on the contents of urban water management plans is provided in '*Urban Water Management Plans: Guidelines for preparing and complying with subdivision conditions*' (Published by the then Department of Water 2008). Any swales to be designed and planted in accordance with Vegetation Guidelines for Stormwater Biofilters in the South
3. In regard to Condition 8, the Management Plan will need to demonstrate that site works will not interfere, alter or pollute any wetland, watercourse, surface water expression or groundwater in the area, or alter the water quality of such waters. The Management Plan should include details of onsite storage of materials and equipment, waste management (including how any fill, building materials, rubbish and other deleterious matter will be prevented from being deposited on the foreshore reserve, or allowed to enter the waterways as a result of the subdivision), management of stormwater and associated sedimentation and complaints/incidents.
4. In regard to Condition 9, the Foreshore Management Plan should be prepared in accordance with relevant guidelines including Operational policy 4.3: Identifying and establishing waterways foreshore areas (DWER, 2012) and Guidelines for developing foreshore management plans in the Swan Canning Riverpark (Swan River Trust, 2012).
5. In regard to Condition 16, the location of the foreshore reserve is to be confirmed prior to ground disturbing activities on abutting land. The foreshore reserve is to be protected from disturbance during subdivisional works.
6. In relation to Condition 23, And in accordance with regulation 31(1)(c) of the *Contaminated Sites Regulations 2006*, a Mandatory Auditor's Report, prepared by an accredited contaminated sites auditor, will need to be submitted to the Department of Water and Environmental Regulation as evidence of compliance with Condition 23. A current list of accredited auditors is available from www.dwer.wa.gov.au

140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dph.wa.gov.au; web address <http://www.dph.wa.gov.au>
ABN 35 482 341 493



7. Condition 24 refers to an 'acid sulphate soils self-assessment form'. This form can be downloaded from the Western Australian Planning Commission's website www.dplh.wa.gov.au.

The 'acid sulphate soils self-assessment form' makes reference to the Department of Water and Environment Regulation's 'Identification and Investigation of Acid Sulphate Soils' guideline. This guideline can be obtained from the Department of Water and Environment Regulation's website www.dwer.wa.gov.au

8. In regard to Condition 26, Western Power provides only one underground point of electricity supply per freehold lot.
9. In regard to Conditions 29 and 30, the landowner/applicant shall make arrangements with the Water Corporation for the provision of the necessary services. On receipt of a request from the landowner/applicant, a Land Development Agreement under Section 83 of the *Water Services Act 2012* will be prepared by the Water Corporation to document the specific requirements for the proposed subdivision.
10. The Department of Biodiversity, Conservation and Attractions (Estuaries Division) provides the following advice to the applicant - any future development on the lots abutting the Swan Canning Development Control Area (DCA) will be subject to Department of Biodiversity, Conservation and Attractions policies including Policy Statement 48 - *Planning for Development Setback Requirements Affecting the Swan Canning Development Control Area*, which requires a development setback of 10 metres or 20% of the average depth of the lot, whichever is the lesser, from the landward boundary of the DCA.

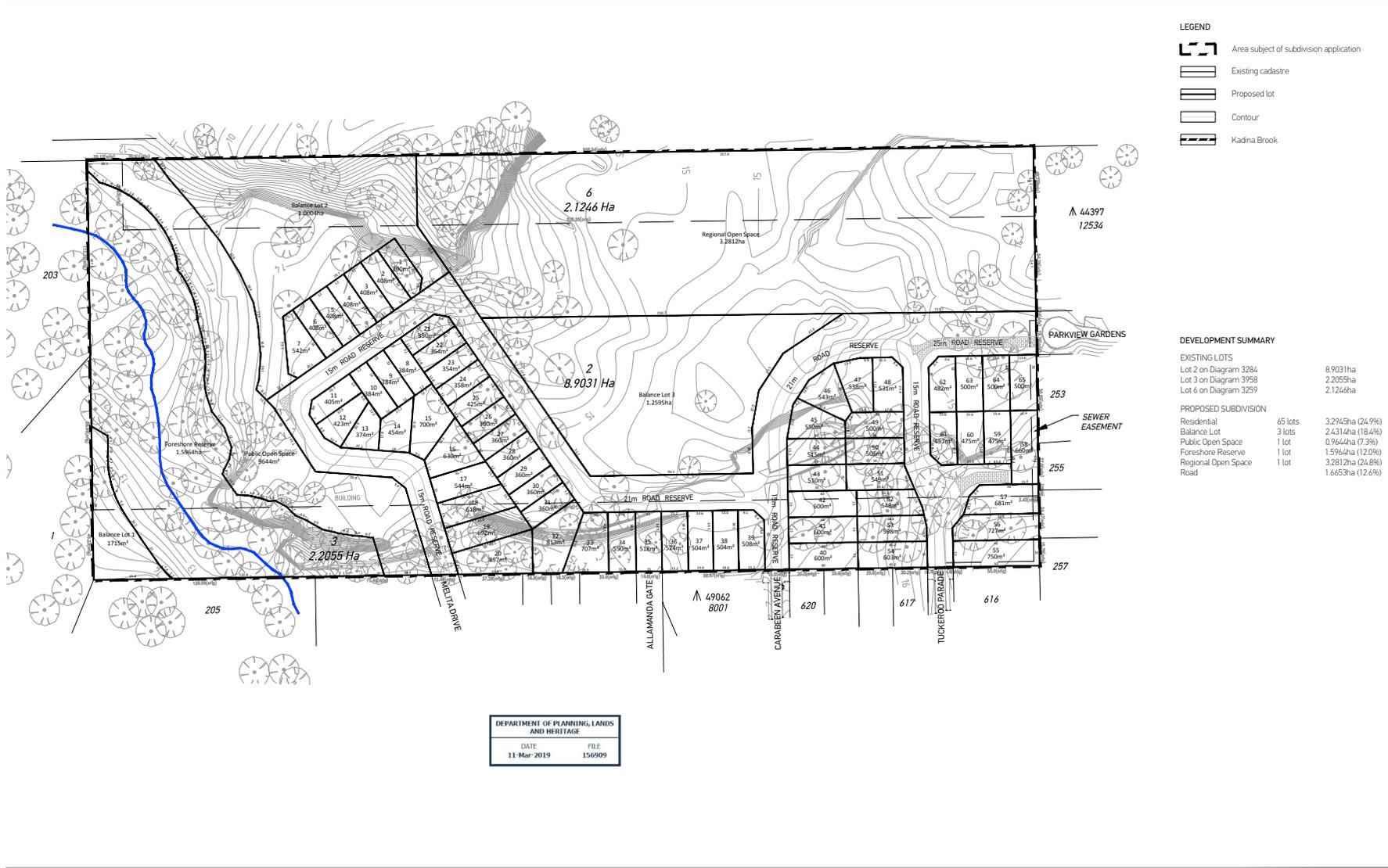
Retaining walls and boundary fences in proximity to the DCA are to adhere to Policy Statement 48 locational requirements for setbacks, height and construction standards. The Department of Biodiversity, Conservation and Attractions also recommends fence styles, colours, and materials which complement the riverine environment.

A handwritten signature in black ink, appearing to read "Sam Fagan".

Ms Sam Fagan
Secretary
Western Australian Planning Commission
29 July 2019

Enquiries : David Sands (Ph 6551 9270)

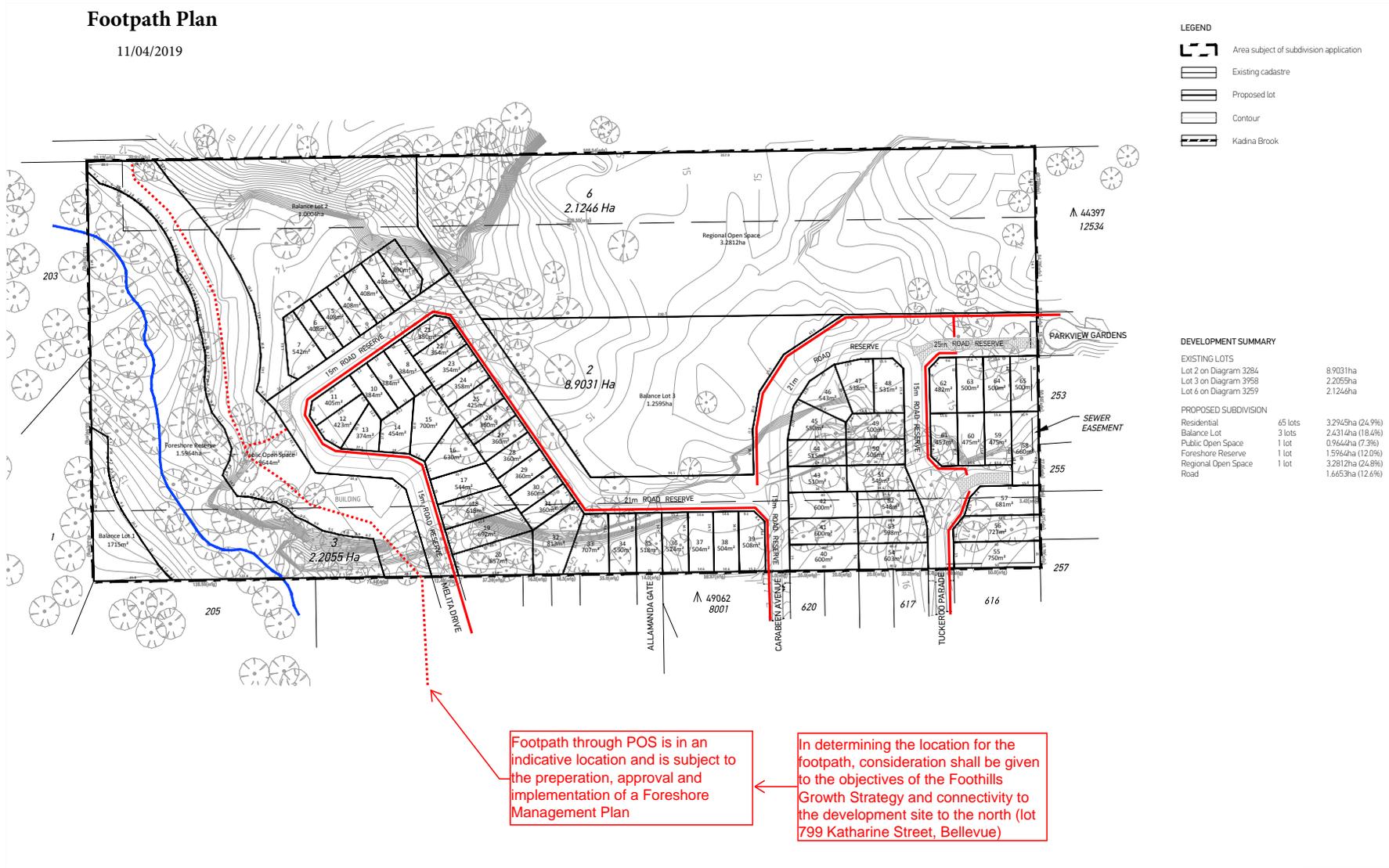
140 William Street, Perth, Western Australia 6000, Locked Bag 2506 Perth, 6001
Tel: (08) 6551 8002; Fax: (08) 6551 9001; Infoline: 1800 626 477
e-mail: info@dplh.wa.gov.au; web address <http://www.dplh.wa.gov.au>
ABN 35 482 341 493



Subdivision Plan
 Lots 2, 3 & 6 Midland Road, Helena Valley

date: 27 February 2019 staff: MD/LC
 scale: 1:2000 @ A3 checked: MD
 file: 17-809 SU1C 0 1 50m





Subdivision Plan

Lots 2, 3 & 6 Midland Road, Helena Valley

date: 27 February 2019
 scale: 1:2000 @ A3
 staff: MD/LC
 checked: MD
 file: 17-809 SU1C

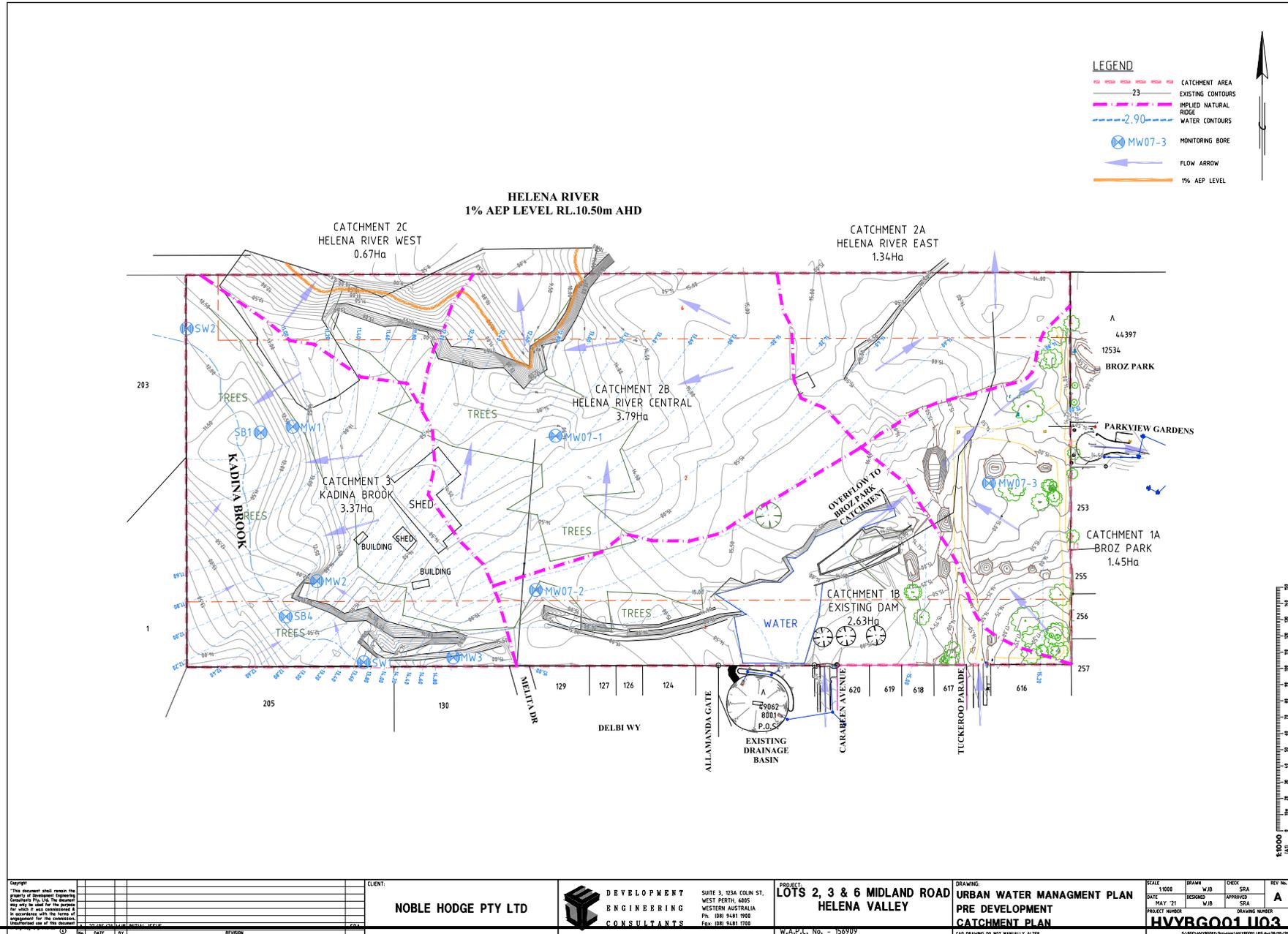




APPENDIX B – DRAINAGE STRATEGY PLANS

- **Drawing U-03 – Pre Development catchment Plan**
- **Drawing U-04 – Post Development Catchment Plan and 5 Year Event Plan**

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



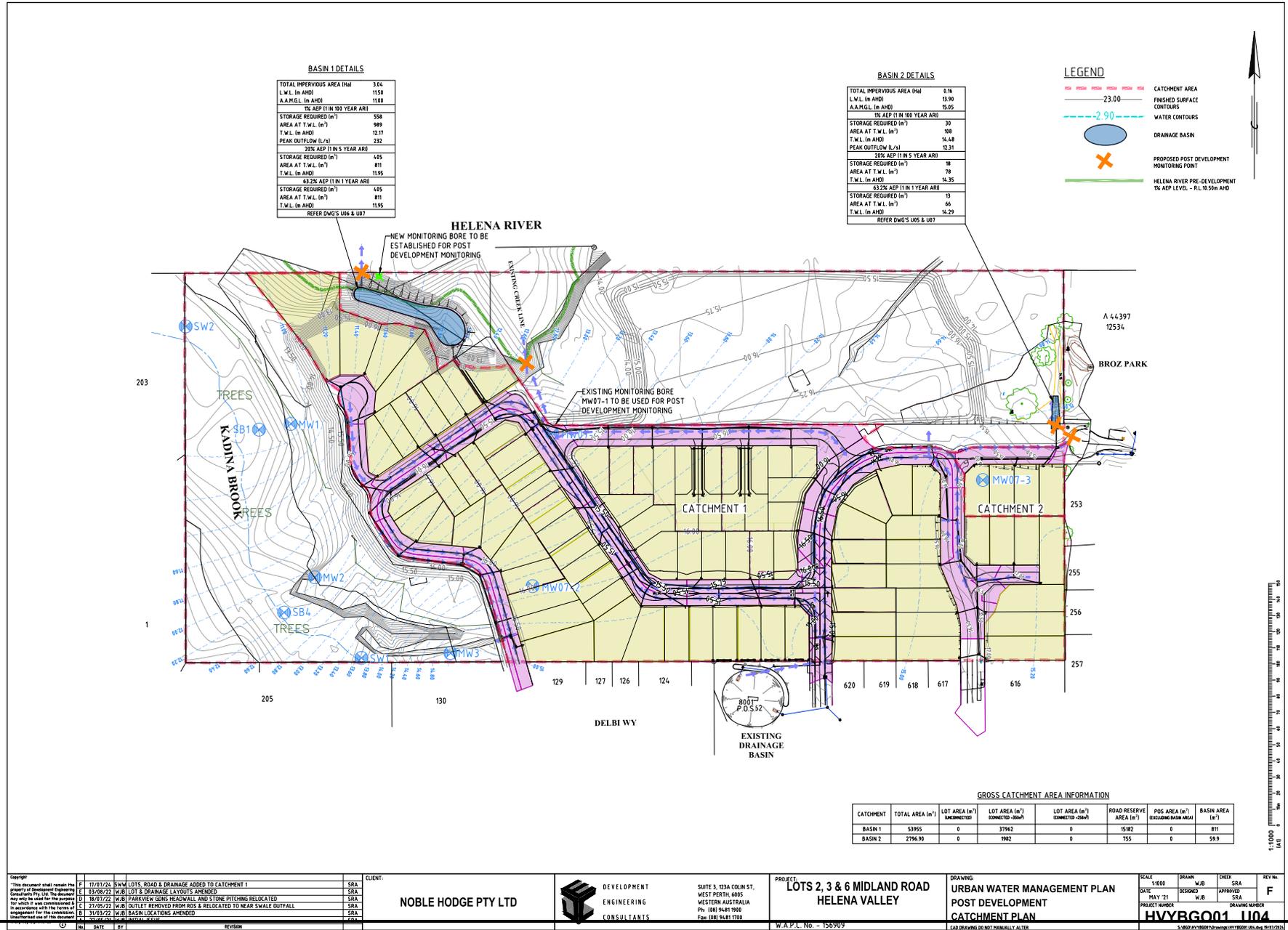
<small>Copyright</small> This document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and in accordance with the terms of engagement for the commission. No other use of this document is permitted.		CLIENT: NOBLE HODGE PTY LTD
PROJECT NUMBER: DATE: 1 BY:	REVISION:	DRAWN: CHECKED: APPROVED: A

DEVELOPMENT ENGINEERING CONSULTANTS
 SUITE 3, 923A COLIN ST, WEST BERTH, 4805, WESTERN AUSTRALIA
 Ph: (08) 9481 1900 Fax: (08) 9481 1700

PROJECT:
LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY

DRAWING:
URBAN WATER MANAGEMENT PLAN PRE DEVELOPMENT CATCHMENT PLAN

SCALE: 1:1000	DRAWN: WJB	CHECK: SRA	REV. NO.: A
DATE: MAY '21	DESIGNED: WJB	APPROVED: SRA	
PROJECT NUMBER:	DRAWING NUMBER:		
HVYBGO01 U03			



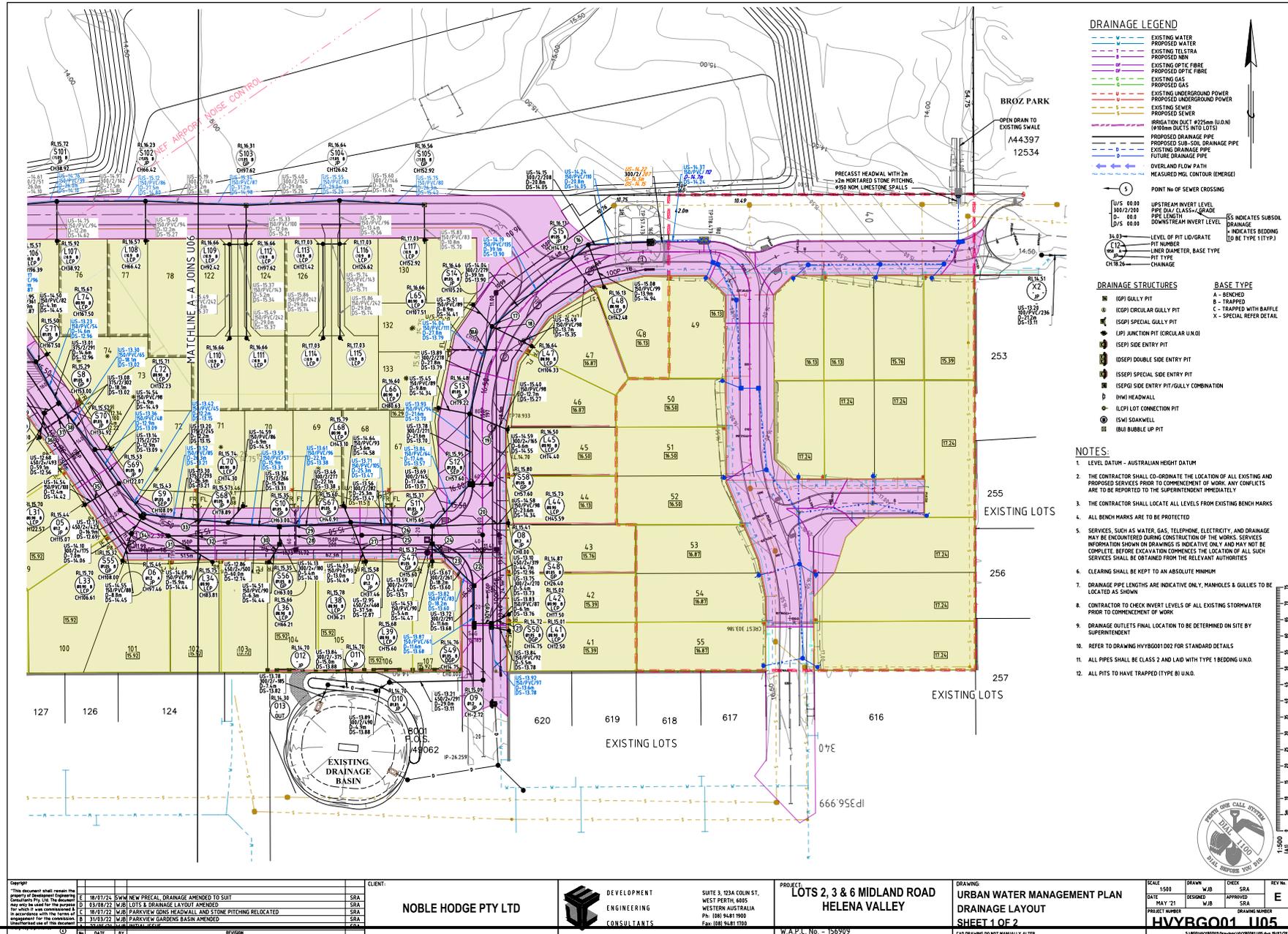
<p>Copyright</p> <p>This document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and is to be returned to the company upon completion of the project. No part of this document may be reproduced without the prior written consent of the company.</p>	<table border="1"> <tr><td>REV</td><td>DATE</td><td>BY</td><td>REVISION</td></tr> <tr><td>1</td><td>17/01/24</td><td>SWM</td><td>LOTS, ROAD & DRAINAGE ADDED TO CATCHMENT 1</td></tr> <tr><td>2</td><td>03/04/24</td><td>WJB</td><td>LOT & DRAINAGE LAYOUTS AMENDED</td></tr> <tr><td>3</td><td>18/07/24</td><td>WJB</td><td>PARKVIEW GIONS HEADWALL AND STONE PITCHING RELOCATED</td></tr> <tr><td>4</td><td>27/05/25</td><td>WJB</td><td>ENTRIES REMOVED FROM RIS & RELOCATED TO NEAR SWALE OUTFALL</td></tr> <tr><td>5</td><td>31/03/25</td><td>WJB</td><td>LOT LOCATIONS AMENDED</td></tr> <tr><td>6</td><td>10/04/25</td><td>WJB</td><td>RELOCATED SWALE OUTFALL</td></tr> </table>	REV	DATE	BY	REVISION	1	17/01/24	SWM	LOTS, ROAD & DRAINAGE ADDED TO CATCHMENT 1	2	03/04/24	WJB	LOT & DRAINAGE LAYOUTS AMENDED	3	18/07/24	WJB	PARKVIEW GIONS HEADWALL AND STONE PITCHING RELOCATED	4	27/05/25	WJB	ENTRIES REMOVED FROM RIS & RELOCATED TO NEAR SWALE OUTFALL	5	31/03/25	WJB	LOT LOCATIONS AMENDED	6	10/04/25	WJB	RELOCATED SWALE OUTFALL	<p>CLIENT:</p> <p>NOBLE HODGE PTY LTD</p>	<p>DEVELOPMENT ENGINEERING CONSULTANTS</p> <p>SUITE 3, 123A COLIN ST, WEST PERTH 6005, WESTERN AUSTRALIA Ph: (08) 9441 1900 Fax: (08) 9441 1100</p>	<p>PROJECT:</p> <p>LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY</p> <p>W.A.P.L. No. - 156909</p>	<p>DRAWING:</p> <p>URBAN WATER MANAGEMENT PLAN POST DEVELOPMENT CATCHMENT PLAN</p> <p>CAD DRAWING DO NOT MANUALLY ALTER</p>	<p>SCALE:</p> <p>1:1000</p> <p>DATE: MAY '24</p>	<table border="1"> <tr><td>DRAWN</td><td>WJB</td><td>CHECK</td><td>SRA</td></tr> <tr><td>DESIGNED</td><td>WJB</td><td>APPROVED</td><td>SRA</td></tr> <tr><td>PROJECT NUMBER</td><td colspan="2">DRAWING NUMBER</td><td></td></tr> <tr><td colspan="2">HVYBGO01_U04</td><td></td><td></td></tr> </table>	DRAWN	WJB	CHECK	SRA	DESIGNED	WJB	APPROVED	SRA	PROJECT NUMBER	DRAWING NUMBER			HVYBGO01_U04				<p>REV No:</p> <p>F</p>
REV	DATE	BY	REVISION																																																	
1	17/01/24	SWM	LOTS, ROAD & DRAINAGE ADDED TO CATCHMENT 1																																																	
2	03/04/24	WJB	LOT & DRAINAGE LAYOUTS AMENDED																																																	
3	18/07/24	WJB	PARKVIEW GIONS HEADWALL AND STONE PITCHING RELOCATED																																																	
4	27/05/25	WJB	ENTRIES REMOVED FROM RIS & RELOCATED TO NEAR SWALE OUTFALL																																																	
5	31/03/25	WJB	LOT LOCATIONS AMENDED																																																	
6	10/04/25	WJB	RELOCATED SWALE OUTFALL																																																	
DRAWN	WJB	CHECK	SRA																																																	
DESIGNED	WJB	APPROVED	SRA																																																	
PROJECT NUMBER	DRAWING NUMBER																																																			
HVYBGO01_U04																																																				



**APPENDIX C – LANDSCAPE PROPOSALS FOR POS AND
DETAILED ENGINEERING PLANS DRAINAGE**

- **Drawing U-05 – Drainage Layout Plan Sheet 1 of 2**
- **Drawing U-06 – Drainage Layout Plan Sheet 2 of 2**
- **Drawing U-07 – Drainage Basin Details**
- **Drawing U-08 – Drainage General Details**
- **Drawing U-09 – Drainage Basin and Outlet Details**
- **Landscape Concept Plan**

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



Copyright		CLIENT
The document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and no other use without the written consent of Development Engineering Consultants Pty Ltd.		
REV	DATE	BY
1		

NOBLE HODGE PTY LTD

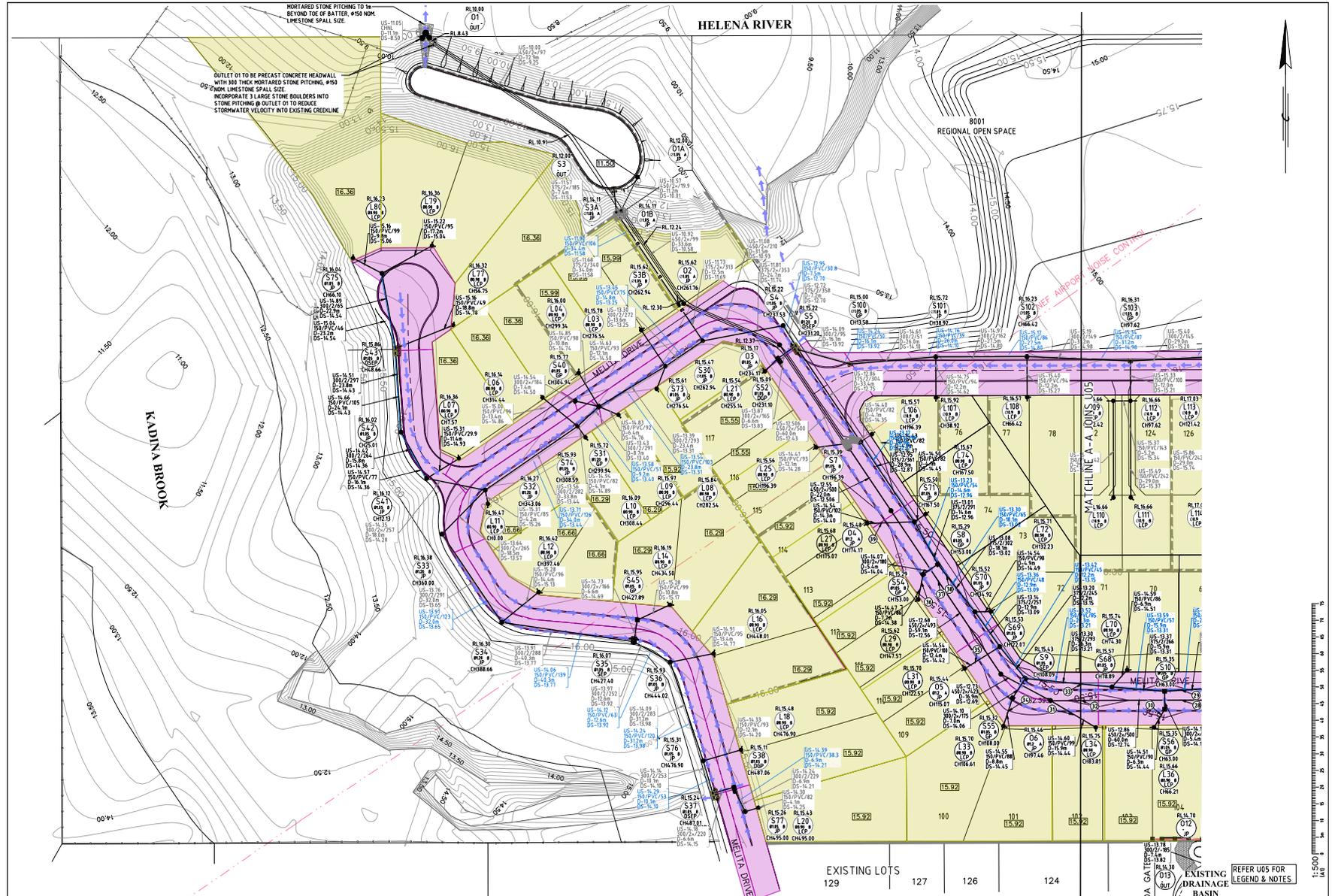


SUITE 3, 123A COLIN ST.
WEST PERTH 6005
WESTERN AUSTRALIA
Ph: (08) 9481 1900
Fax: (08) 9481 1100

PROJECT
**LOTS 2, 3 & 6 MIDLAND ROAD
HELENA VALLEY**

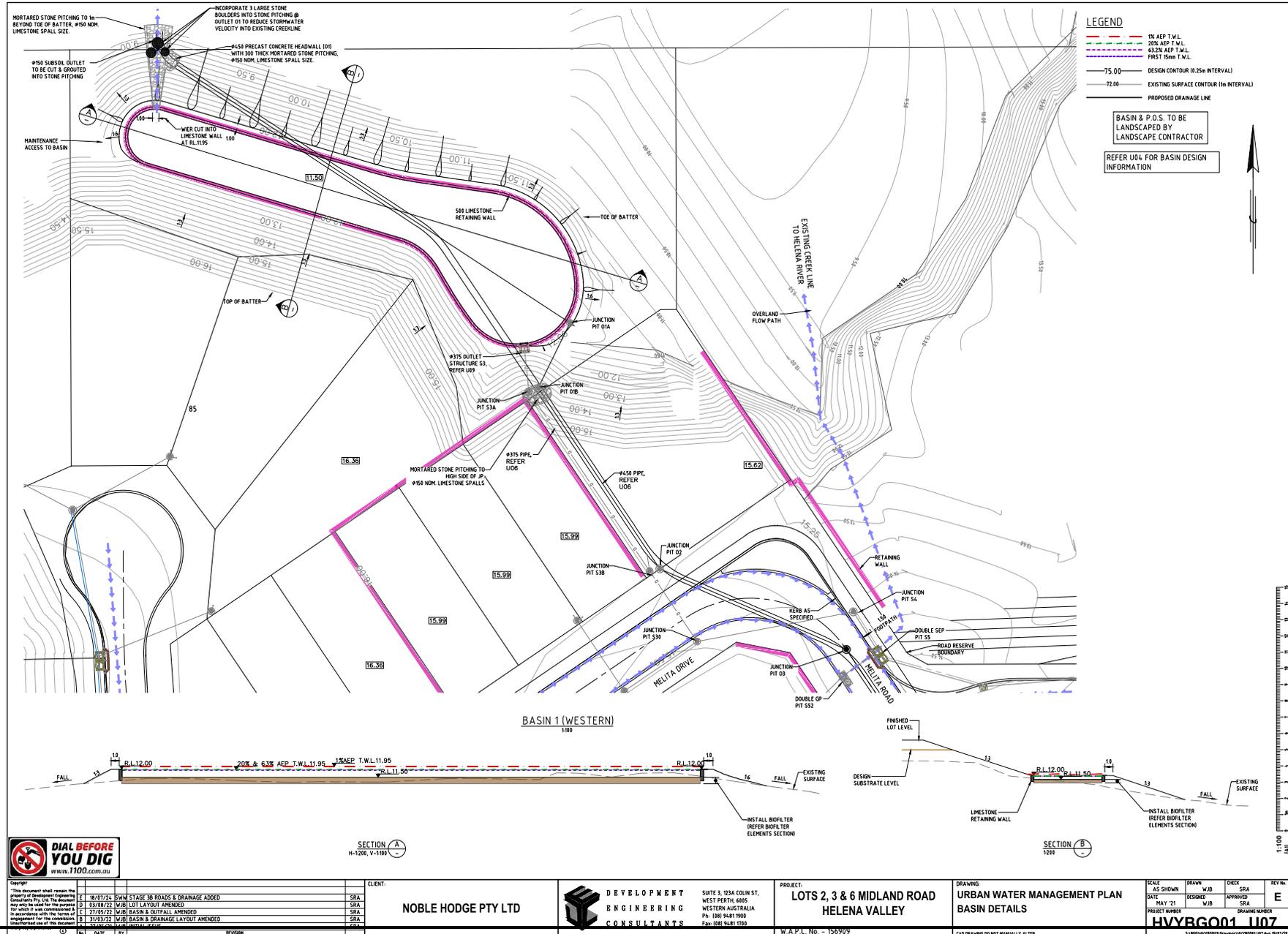
DRAWING
**URBAN WATER MANAGEMENT PLAN
DRAINAGE LAYOUT
SHEET 1 OF 2**

SCALE	1:500	DRAWN	W/B	CHECK	SRA	REV	E
DATE	MAY '21	DESIGNED	W/B	APPROVED	SRA		
PROJECT NUMBER	HVBVG01_U05		DRAWING NUMBER				



<p>Copyright</p> <p>The document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared & a guarantee is not given by the engineer for the construction of the works shown on this drawing.</p>		<p>CLIENT:</p> <p>NOBLE HODGE PTY LTD</p>	<p>DEVELOPMENT ENGINEERING CONSULTANTS</p> <p>SUITE 3, 123A COLIN ST. WEST PERTH 6005 WESTERN AUSTRALIA. PH: (08) 9481 1900 Fax: (08) 9481 1100</p>	<p>PROJECT:</p> <p>LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY</p> <p>W.A.P.L. No. - 156909</p>	<p>DRAWING:</p> <p>URBAN WATER MANAGEMENT PLAN DRAINAGE LAYOUT SHEET 2 OF 2</p> <p>CAD DRAWING DO NOT MANUALLY ALTER</p>	<p>SCALE: 1:500</p> <p>DATE: MAY '21</p> <p>PROJECT NUMBER: HVYR001_1106</p> <p>DRAWN: WJB</p> <p>DESIGNED: WJB</p> <p>CHECK: SRA</p> <p>APPROVED: SRA</p> <p>DRAWING NUMBER: HVYR001_1106</p> <p>DATE: 15.03.2025</p>
--	--	---	---	--	--	--

11.03.2025 COUNCIL MEETING AGENDA



REV	DATE	BY	REVISION
E	18/07/24	SWM STAGE 3B ROADS & DRAINAGE ADDED	
D	03/08/22	W/B LOT LAYOUT AMENDED	
C	27/05/22	W/B BASIN & OUTFALL AMENDED	
B	31/03/22	W/B BASIN & DRAINAGE LAYOUT AMENDED	
A	08/02/22	W/B BASIN & DRAINAGE LAYOUT AMENDED	

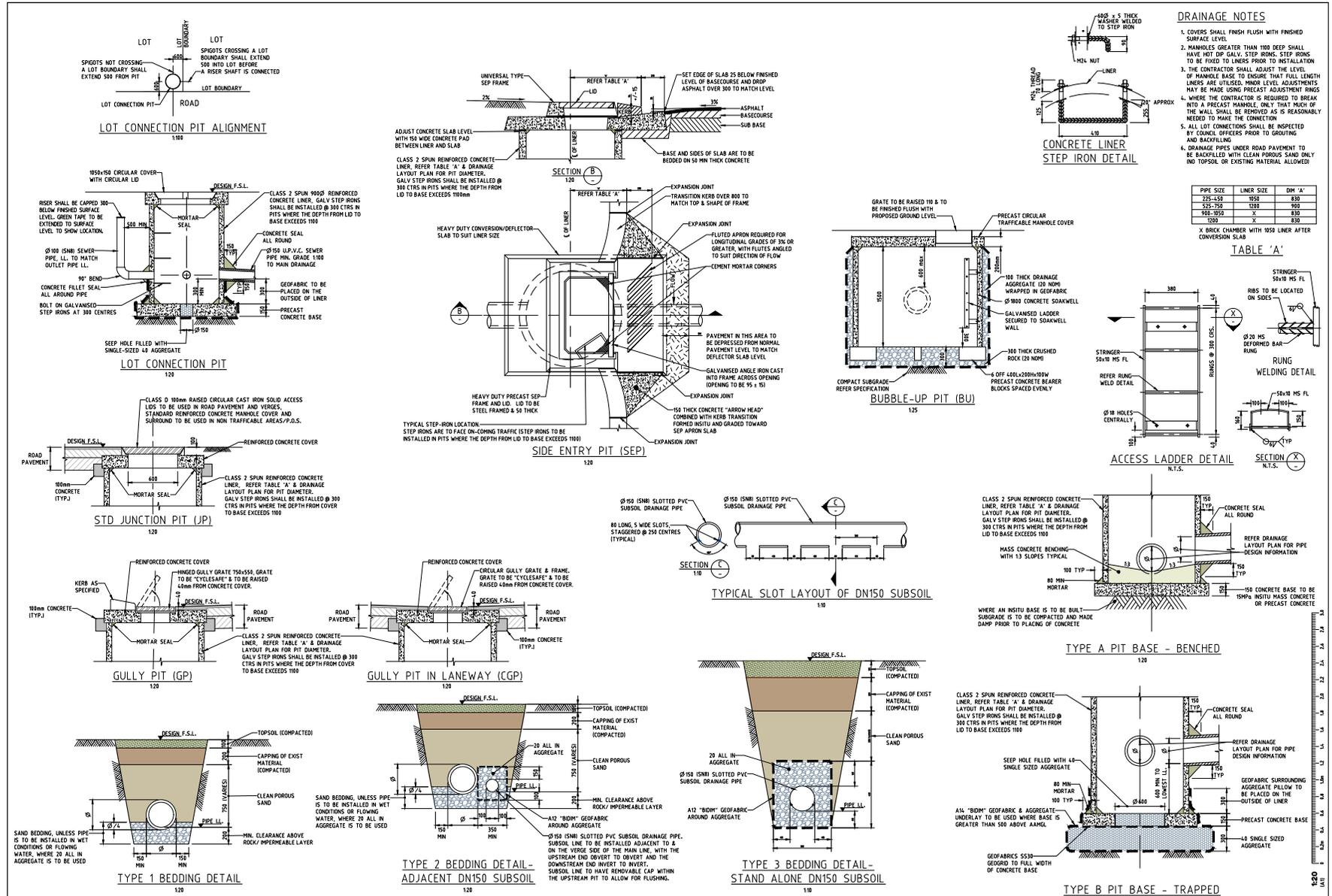
CLIENT:
NOBLE HODGE PTY LTD

DEVELOPMENT ENGINEERING CONSULTANTS
SUITE 3, 123A COLIN ST.
WEST PERTH 6005
WESTERN AUSTRALIA
Ph: (08) 9441 1900
Fax: (08) 9441 1100

PROJECT:
**LOTS 2, 3 & 6 MIDLAND ROAD
HELENA VALLEY**

DRAWING:
**URBAN WATER MANAGEMENT PLAN
BASIN DETAILS**

SCALE: AS SHOWN
DATE: MAY '21
PROJECT NUMBER: **HVYBGO01_U07**
DRAWING NUMBER: **U07**

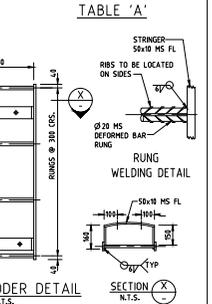


- DRAINAGE NOTES**
- COVERS SHALL FINISH FLUSH WITH FINISHED SURFACE LEVEL.
 - MANHOLES GREATER THAN 100 DEEP SHALL HAVE HOT DPT GALV. STEP IRONS. STEP IRONS TO BE FIXED TO LINERS PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL ADJUST THE LEVEL OF MANHOLE BASE TO ENSURE THAT FULL LENGTH LINERS ARE UTILISED. MINOR LEVEL ADJUSTMENTS MAY BE MADE USING PRECAST ADJUSTMENT RINGS.
 - WHERE THE CONTRACTOR IS REQUIRED TO BREAK INTO A PRECAST MANHOLE, ONLY THAT MUCH OF THE WALL SHALL BE REMOVED AS IS REASONABLY NEEDED TO MAKE THE CONNECTION.
 - ALL LOT CONNECTIONS SHALL BE INSPECTED BY COUNCIL OFFICERS PRIOR TO GROUTING AND BACKFILLING.
 - DRAINAGE PIPES UNDER ROAD PAVEMENT TO BE BACKFILLED WITH CLEAN POROUS SAND ONLY (NO TOPSOIL OR EXISTING MATERIAL ALLOWED)

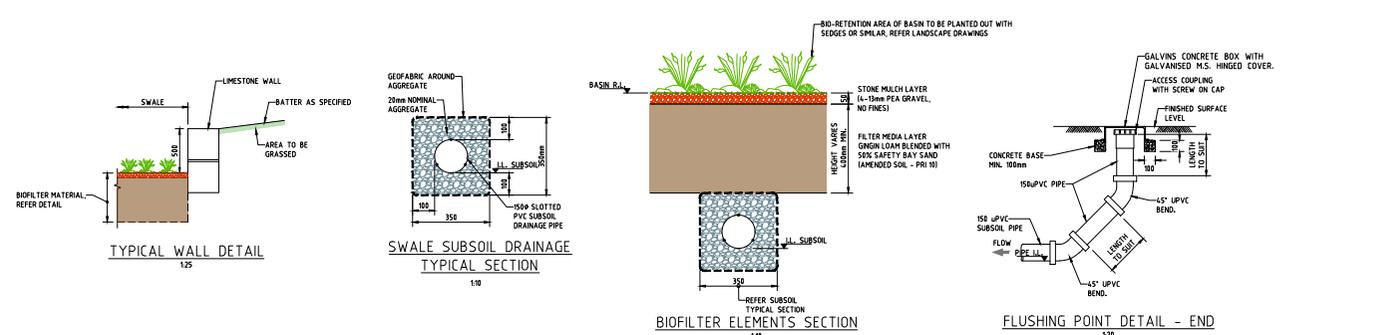
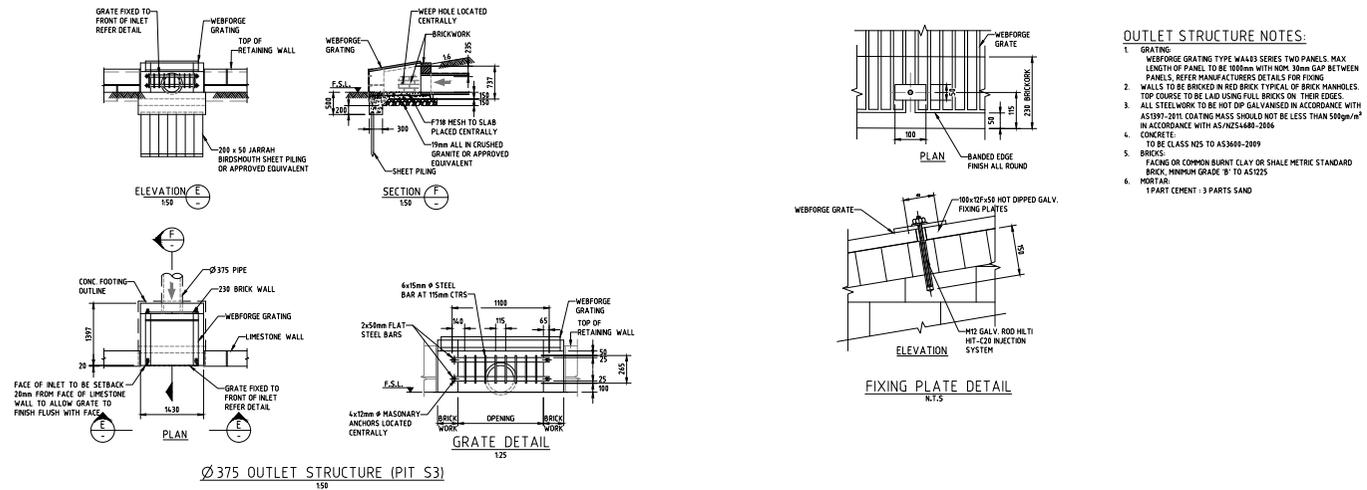
TABLE 'A'

PIPE SIZE	LINER SIZE	DM 'A'
225-450	150	830
225-750	150	900
300-1050	X	830
300	X	830
X	X	830

X BRICK CHAMBER WITH 100 LINER AFTER CONVERSION SLAB



<p>Copyright The document shall remain the property of Development Engineering Consultants Pty Ltd. The drawings may only be used for the purpose for which it was prepared and a copy must be returned to the engineer/contractor for the completion, modification or the expiration of the contract.</p>	CLIENT: NOBLE HODGE PTY LTD	<p>DEVELOPMENT ENGINEERING CONSULTANTS</p>	SUITE 3, 123A COLIN ST, WEST BORTH 4005 WESTERN AUSTRALIA Ph: (08) 9481 1900 Fax: (08) 9481 1700	PROJECT: LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY	DRAWING: URBAN WATER MANAGEMENT PLAN STANDARD DETAILS SHEET 1 OF 2	SCALE: AS SHOWN DATE: MAY '21	DRAWN: SRA DESIGNED: WJB APPROVED: SRA PROJECT NUMBER: HVYBG001 U08	REV NO. A
	DATE: 11/03/2025 BY: [Signature]							



Copyright	The document shall remain the property of Development Engineering Consultants Pty Ltd. The document may only be used for the purpose for which it was prepared and is not to be used for any other purpose without the written consent of Development Engineering Consultants Pty Ltd.	
DATE	BY	REVISION
31/03/22	WJB	DETAILS AMENDED TO SUIT UPDATED BASIN DESIGN

CLIENT:
NOBLE HODGE PTY LTD

DEVELOPMENT ENGINEERING CONSULTANTS
SUITE 3, 923A COLIN ST, WEST BERTH, 4005 WESTERN AUSTRALIA
PH: (08) 9481 1900 FAX: (08) 9481 1700

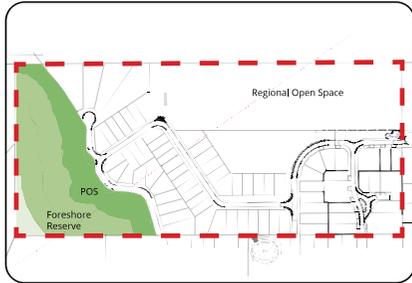
PROJECT:
LOTS 2, 3 & 6 MIDLAND ROAD HELENA VALLEY

DRAWING:
URBAN WATER MANAGEMENT PLAN STANDARD DETAILS SHEET 2 OF 2

SCALE	DRAWN	CHECK	REV. NO.
A5 SHOWN	WJB	SRA	B
DATE	DESIGNED	APPROVED	
MAY '21	WJB	SRA	
PROJECT NUMBER	DRAWING NUMBER		
	HVYBGO01 U09		

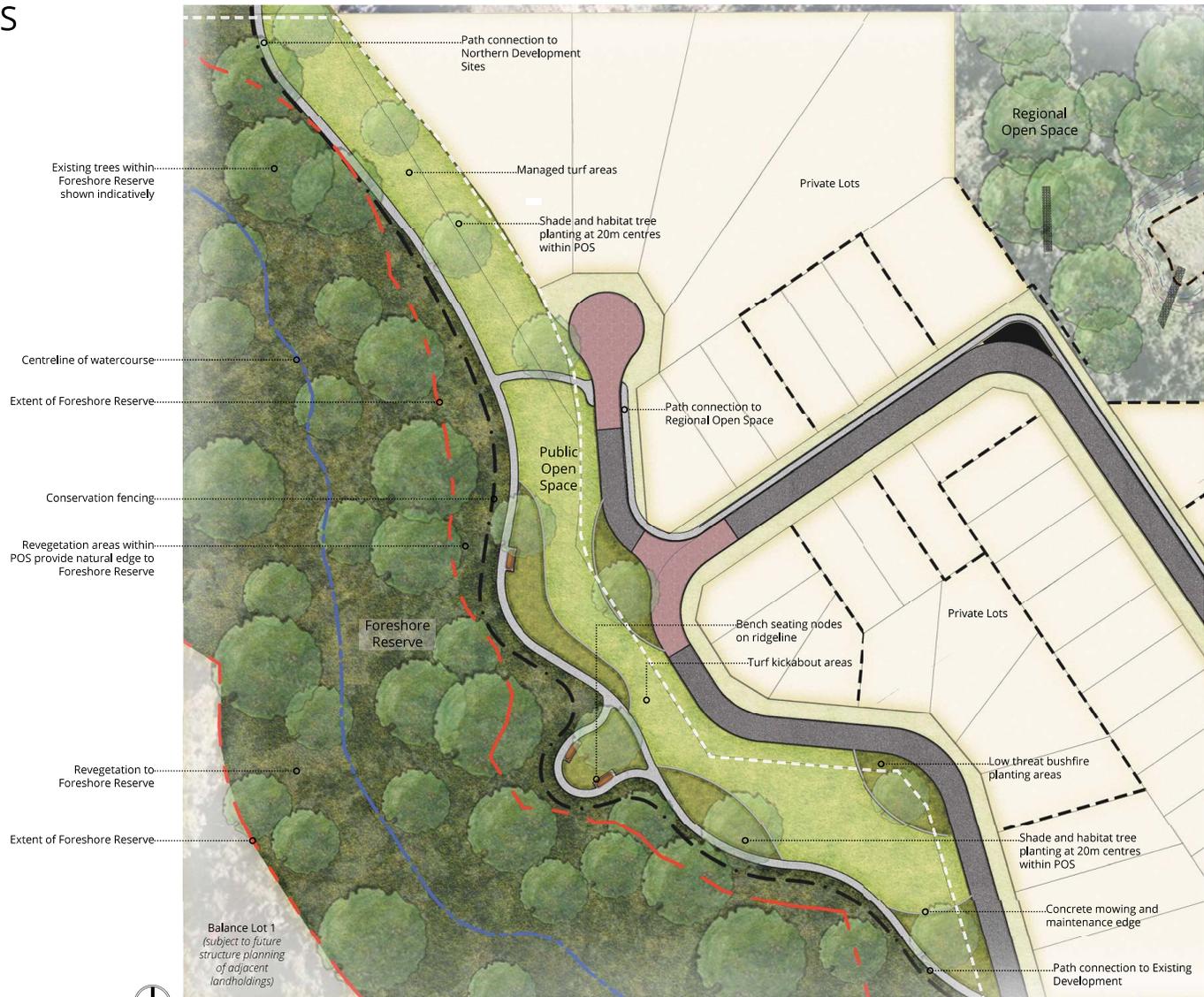
Foreshore Reserve & POS

LOCATION PLAN



LEGEND

- Foreshore Reserve Boundary
- Centreline of Watercourse
- POS Lot Boundary
- Conservation Fencing
- Existing Native Tree Planting
- Shade and Habitat Tree at 20m spacings
- Native Low fire Threat Shrub Planting Areas
- Revegetation Planting
- 2.1m Wide Concrete Path
- Informal / Bench Seating
- Turf areas
- Concrete Mowing/ Maintenance edge
- Road Treatments



CONCEPT PLAN

DWG - ENV-HV4-MP
 REV - 8
 DATE - 1 July 2021
 SCALE - 1:1000 at A3

© THE DRAWING CAN NOT BE REPRODUCED OR COPIED WITHOUT THE WRITTEN PERMISSION OF THE CLIENT AND/OR AUTHOR. THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY AND MAY VARY WITHOUT NOTICE.

LOTS 2, 3 & 6 MIDLAND ROAD, HELENA VALLEY

FORESHORE & PUBLIC OPEN SPACE PLAN





APPENDIX D – DRAINAGE CALCULATIONS

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley**
 Location: **Drainage Basin 1 - Near Helena River (North)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley		
Nearest grid cell:	Latitude	-31.9125	Longitude 116.0375

Data to be Input

			ARI	v Descriptor v	AEP	Equivalent Impervious Area (Ha)
Rainfall AEP (Percentage)			100	Infrequent		
63.2% AEP - 1hr Impervious Catchment(Ha)	1.06					
Required Bio-retention Area (2% Imp.) (m ²)	213				63.2%	1.80
Required Storage (First 15mm) (m ³)	159				20%	2.37
Available Storage (m ³)	558				1%	3.05
Soakage Outflow (l/s/m ²)	0.0001		85.44			
Likely Subsoil Flow (m ³ /day)	219.38					
Likely Subsoil Flow (l/s)	2.54					
Allowable Outflow (l/s) (1EY)	3.13	l/s/ha	16.66			
Allowable Outflow (l/s) (20%AEP)	11.19	l/s/ha	59.49			
Allowable Outflow (l/s) (10% AEP)	14.93	l/s/ha	79.32			
Allowable Outflow (l/s) (1% AEP)	43.73	l/s/ha	232.41	(Per Agreed Outflow Capacity for Lot 207 Helena Valley Development)		

Catchment Details	Roads	Standard Lots (Unconnected)	Standard Lots (Connected <350m2)	Standard Lots (Connected <250m2)	POS	Drainage Basin	Total	Effective C	Q _{allow} 232.4
Gross Catchment Area	1.52	0	3.7152	0	0.0000	0.0810	5.31		
Runoff Coefficient (C ₁₀)	0.70	0.34	0.39	0.74	0.01	1.00			
ARI Multiplier	1.00	1.29	1.31	1.00	0.62	1.00			
Runoff Coefficient (C _y)	0.70	0.44	0.51	0.74	0.01	1.00			
Impervious Area (Ha)	1.06	0.00	1.90	0.00	0.00	0.08	3.04	0.57	

T _c (mins)	T _c (hrs)	I (mm/hr)	Q _{IN} (l/s)	V _{IN} (m ³)	Preliminary height (m)	Q _{OUT} (soakage) (l/s)	V _{OUT} (soakage) (m ³)	Net storage (after soakage) (m ³)	Time of water in basin (hrs)	V _{OUT} required (m ³)	Q _{OUT} (l/s)
10	0.17	122.00	1031	619	0.25	0.1	0	618	9.2	61	101.1
15	0.25	97.80	826	744	0.25	0.1	0	744	9.2	186	206.5
20	0.33	82.40	696	835	0.25	0.1	0	835	9.2	278	231.3
30	0.50	64.10	542	975	0.25	0.1	0	975	9.2	417	231.7
45	0.75	49.50	418	1129	0.25	0.1	0	1129	9.2	571	211.6
60	1.00	41.30	349	1256	0.25	0.1	0	1256	9.2	698	193.9
90	1.50	32.10	271	1465	0.25	0.1	1	1464	9.2	906	167.9

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley**
 Location: **Drainage Basin 1 - Near Helena River (North)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley			
Nearest grid cell:	Latitude	-31.9125	Longitude	116.0375

120	2.00	27.00	228	1643	0.25	0.1	1	1642	9.2	1084	150.6
150	2.50	23.70	200	1802	0.25	0.1	1	1801	9.2	1244	138.2
180	3.00	21.30	180	1944	0.25	0.1	1	1943	9.2	1385	128.2
240	4.00	18.37	155	2235	0.25	0.1	2	2233	9.2	1675	116.4
300	5.00	16.03	135	2439	0.25	0.1	2	2437	9.2	1879	104.4
360	6.00	14.30	121	2610	0.25	0.1	2	2608	9.2	2050	94.9
480	8.00	12.23	103	2977	0.25	0.1	3	2974	9.2	2416	83.9
720	12.00	9.37	79	3420	0.25	0.1	5	3416	9.2	2858	66.2
960	16.00	7.87	66	3830	0.25	0.1	6	3824	9.2	3266	56.7
1440	24.00	5.78	49	4220	0.25	0.1	9	4210	9.2	3653	42.3
2880	48.00	3.32	28	4847	0.25	0.1	19	4829	9.2	4271	24.7
4320	72.00	2.37	20	5191	0.25	0.1	28	5163	9.2	4605	17.8

Calculation of Storage in Above Ground Basin

Lower Tier/Bio-retention Drainage Basin Dimensions:

Side Slopes 1:	Length (m)	Breadth (m)
0	75	10.8
RL (Base)	11.5	

TWL (mAHD)	Height (m)	Area at TWL (m ²)	Average area	Volume (m ³)	Treated storage above LWL (m ³)	The Designated Height allows Storage for
11.5	0	810	3240	0	0	Static Water Level
12	0.5	810	3240	405	405	First 15mm / 63.2% AEP - 1hr

TOTAL STORAGE TO TOP OF LOWER TIER 405 m³

Middle Tier Drainage Basin Dimensions:

Side Slopes 1:	Length (m)	Breadth (m)
6	75	10.8
RL (Base)	12	

TWL (mAHD)	Height (m)	Total depth to TWL (m)	Area at TWL (m ²)	Average area	Volume (m ³)	Treated storage above LWL (m ³)	The Designated Height allows Storage for
12	0	0.5	810	3240	0	405	Bottom of Middle Tier
12	0	0.5	810	3240	0	405	63.2% AEP
12	0	0.5	810	3240	0	405	20% AEP

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckerroo Parade, Helena Valley**
 Location: **Drainage Basin 1 - Near Helena River (North)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley			
Nearest grid cell:	Latitude	-31.9125	Longitude	116.0375
	12.01	0.01	0.51	820 3261
	12.17	0.17	0.67	989 3594

	8	413	10% AEP
	153	558	1% AEP

Outflow Configuration

Flow over weir

$Q = 1.84 \times L \times (H)^{1.5}$
 H: height of weir

Q (m ³ /s)	L (m)	H (m)	Allowable H	Level of weir	Weir overflow	
0.017	1.00	0.04	0.00	11.95	11.99	63.2% AEP
0.059	1.00	0.10	0.00	11.95	12.05	20% AEP
0.232	1.00	0.25	0.00	11.95	12.20	1% AEP

IL of Outlet Pipe - Allowing for Subsoil at Base of Basin

11.00

Flow through orifice

$Q = C_D \cdot A_o \cdot \text{Sqrt}(19.62 \cdot dH)$
 $C_D = 0.61$

Q (m ³ /s)	Width of hole (mm)	Depth of hole (mm)	A _o (sqm)	Equiv. Dia. (mm)	dH (m)	Allowable DH (m)	
0.232	282	282	0.079524	318	1.169873781	1.17	1% AEP

Minimum pipe size required 282mm dia. - specify 300mm dia.

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley**
 Location: **Drainage Basin 2 - Parkview Gardens (East)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley		
Nearest grid cell:	Latitude	-31.9125	Longitude 116.0375

Data to be Input

	ARI	v Descriptor v	AEP	Equivalent Impervious Area (Ha)
Rainfall AEP (Percentage)	100	Infrequent		
63.2% AEP - 1hr Impervious Catchment(Ha)			63.2%	1.80
Required Bio-retention Area (2% Imp.) (m ²)			20%	2.37
Required Storage (First 15mm) (m ³)			1%	3.05
Available Storage (m ³)				
Soakage Outflow (l/s/m ²)				
Likely Subsoil Flow (m ³ /day)				
Likely Subsoil Flow (l/s)				
Allowable Outflow (l/s) (1EY)	3.13	l/s/ha	0.88	
Allowable Outflow (l/s) (20%AEP)	11.19	l/s/ha	3.15	
Allowable Outflow (l/s) (10% AEP)	14.93	l/s/ha	4.20	
Allowable Outflow (l/s) (1% AEP)	43.73	l/s/ha	12.31	(Per Agreed Outflow Capacity for Lot 207 Helena Valley Development)

Catchment Details	Roads	Standard Lots (Unconnected)	Standard Lots (Connected <350m2)	Standard Lots (Connected <250m2)	POS	Drainage Basin	Total	Effective C
Gross Catchment Area	0.08	0	0.1982	0	0.0000	0.0078	0.28	
Runoff Coefficient (C ₁₀)	0.70	0.34	0.39	0.74	0.01	1.00		
ARI Multiplier	1.00	1.29	1.31	1.00	0.62	1.00		
Runoff Coefficient (C _y)	0.70	0.44	0.51	0.74	0.01	1.00		
Impervious Area (Ha)	0.05	0.00	0.10	0.00	0.00	0.01	0.16	0.58

Q_{allow} 12.3

T _c (mins)	T _c (hrs)	I (mm/hr)	Q _{IN} (l/s)	V _{IN} (m ³)	Preliminary height (m)	Q _{OUT} (soakage) (l/s)	V _{OUT} (soakage) (m ³)	Net storage (after soakage) (m ³)	Time of water in basin (hrs)	V _{OUT} required (m ³)	Q _{OUT} (l/s)
10	0.17	122.00	55	33	0.25	0.0	0	33	9.3	3	5.2
15	0.25	97.80	44	40	0.25	0.0	0	40	9.3	10	10.9
20	0.33	82.40	37	44	0.25	0.0	0	44	9.3	15	12.2
30	0.50	64.10	29	52	0.25	0.0	0	52	9.3	22	12.3
45	0.75	49.50	22	60	0.25	0.0	0	60	9.3	30	11.2
60	1.00	41.30	19	67	0.25	0.0	0	67	9.3	37	10.3
90	1.50	32.10	14	78	0.25	0.0	0	78	9.3	48	8.9

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley**
 Location: **Drainage Basin 2 - Parkview Gardens (East)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley			
Nearest grid cell:	Latitude	-31.9125	Longitude	116.0375

120	2.00	27.00	12	87	0.25	0.0	0	87	9.3	58	8.0
150	2.50	23.70	11	96	0.25	0.0	0	96	9.3	66	7.3
180	3.00	21.30	10	103	0.25	0.0	0	103	9.3	74	6.8
240	4.00	18.37	8	119	0.25	0.0	0	119	9.3	89	6.2
300	5.00	16.03	7	130	0.25	0.0	0	130	9.3	100	5.6
360	6.00	14.30	6	139	0.25	0.0	0	139	9.3	109	5.1
480	8.00	12.23	6	158	0.25	0.0	0	158	9.3	129	4.5
720	12.00	9.37	4	182	0.25	0.0	0	182	9.3	152	3.5
960	16.00	7.87	4	204	0.25	0.0	0	204	9.3	174	3.0
1440	24.00	5.78	3	225	0.25	0.0	0	224	9.3	195	2.3
2880	48.00	3.32	1	258	0.25	0.0	1	257	9.3	228	1.3
4320	72.00	2.37	1	276	0.25	0.0	1	275	9.3	246	0.9

Calculation of Storage in Above Ground Basin

Lower Tier/Bio-retention Drainage Basin Dimensions:

Side Slopes 1:	Length (m)	Breadth (m)
6	5	2.1
RL (Base)	13.9	

TWL (mAHD)	Height (m)	Area at TWL (m ²)	Average area	Volume (m ³)	Treated storage above LWL (m ³)	The Designated Height allows Storage for
13.9	0	11	42	0	0	Static Water Level
13.9	0	11	42	0	0	First 15mm / 63.2% AEP - 1hr

TOTAL STORAGE TO TOP OF LOWER TIER 0 m³

Middle Tier Drainage Basin Dimensions:

Side Slopes 1:	Length (m)	Breadth (m)
6	5	2.1
RL (Base)	13.9	

TWL (mAHD)	Height (m)	Total depth to TWL (m)	Area at TWL (m ²)	Average area	Volume (m ³)	Treated storage above LWL (m ³)	The Designated Height allows Storage for
13.9	0	0	11	42	0	0	Bottom of Middle Tier
14.29	0.39	0.39	66	130	13	13	63.2% AEP
14.35	0.45	0.45	78	148	18	18	20% AEP

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: **Noble Hodge**
 Client: **Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley**
 Location: **Drainage Basin 2 - Parkview Gardens (East)**
 Designer: **SRA**



Location:	Parkview Gardens Helena valley						
Nearest grid cell:	Latitude	-31.9125	Longitude	116.0375			
	14.41	0.51	0.51	91	166	23	23
	14.48	0.58	0.58	108	189	30	30

10% AEP
1% AEP

Outflow Configuration

Flow over weir

$Q = 1.84 \times L \times (H)^{1.5}$
H: height of weir

Q (m ³ /s)	L (m)	H (m)	Allowable H	Level of weir	Weir overflow	
0.001	0.02	0.08	0.39	14.29	14.37	63.2% AEP
0.002	0.30	0.03	0.06	14.37	14.40	20% AEP
0.009	0.30	0.07	0.00	14.40	14.46	1% AEP

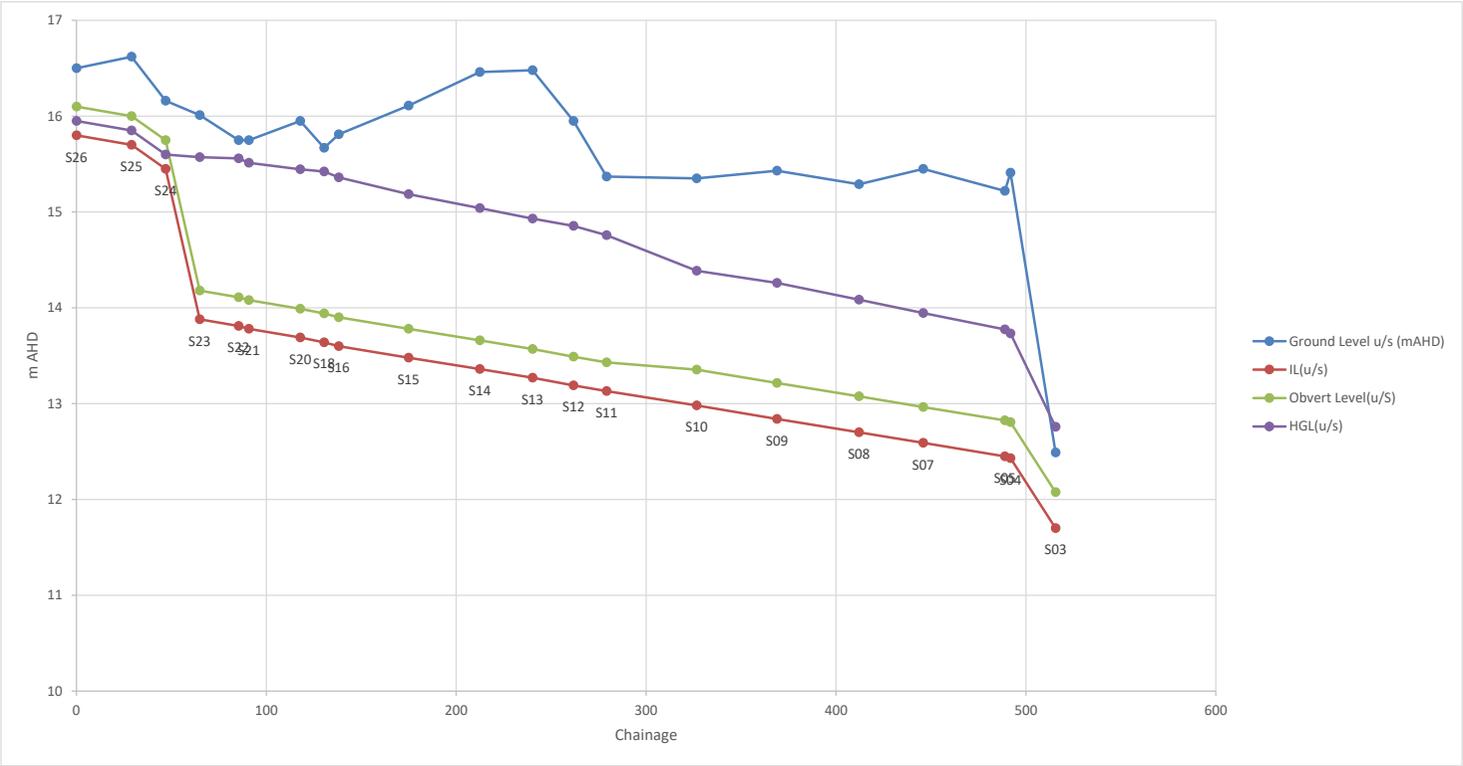
IL of Outlet Pipe - Allowing for Subsoil at Base of Basin 13.50
Flow through orifice

$Q = C_D \cdot A_o \cdot \text{Sqrt}(19.62 \cdot dH)$
C_D = 0.61

Q (m ³ /s)	Width of hole (mm)	Depth of hole (mm)	A _o (sqm)	Equiv. Dia. (mm)	dH (m)	Allowable DH (m)	
0.012	68	68	0.004624	77	0.970841002	0.98	1% AEP

Minimum pipe size required 287mm dia. - specify 300mm dia. With orifice at entry with 80mm hole

Client: **Noble Hodge**
 Project: **Lots 2, 3 and 6 Helena valley Road**
 Line: **Overflow Line from Existing Drainage Basin**



Development Engineering Consultants - Drainage HGL Spreadsheet

Client: **Noble Hodge**
 Project: **Lots 2, 3 and 6 Helena valley Road**
 Line: **Overflow Line from Existing Drainage Basin**
 Location: **Parkview Gardens Hel 0**
 Nearest grid cell: **Latitude 32.3375(S) Longitude 115.8125(E)**



Data to be Input	ARI	v Descriptor v
Rainfall AEP (Percentage)	4.48	Frequent
Run-off Coefficients - Road	20	
Run-off Coefficients - Lots (Connected)	0.7	
Minimum Tc(Mins)	0.06	
Minimum Cover(m)	5	
Min Pipe Grade (Gen)	0.4	
Min Pipe Grade (Outlet)	1: 350	
Minimum Manhole Drop(m)	1: 350	
Relative Roughness (K(mm))	0.01	
HGL at Outlet (mAHD)	0.3	
	0.0003	
	12.75	

Pit 1(u/s)	Pit 2(d/s)	Length(m)	Ground Level u/s (mAHD)	Ground Level d/s (mAHD)	Area of Lots		Cumulative Area(Roads)	Cumulative Area(Lots)	Equiv.Imp. Area	Tc(mins)	I(mm/hr)	Q(l/s)	Extra Inflow(L/s)	Total Q(l/s)
					Area In @ u/s Pit (m ²)	In @ u/s Pit (m ²)								
S26	S25	29	16.5	16.62	0	1353	0	81.18	81.18	5.000	91.00	2.05	0.00	2.05
S25	S24	18	16.62	16.16	0	2548	0	234.06	234.06	5.634	87.98	5.72	0.00	5.72
S24	S23	17.9	16.16	16.01	188	2057	188	357.48	489.08	5.824	87.08	11.83	0.00	11.83
S23	S22	20.5	16.01	15.75	0	1056	188	420.84	552.44	6.071	85.90	13.18	0.00	13.18
S22	S21	5.4	15.75	15.75	1367	0	1555	420.84	1509.34	6.532	83.71	35.09	0.00	35.09
S21	S20	27.1	15.75	15.95	347	500	1902	450.84	1782.24	6.640	83.19	41.19	0.00	41.19
S20	S18	12.5	15.95	15.67	0	0	1902	450.84	1782.24	7.248	80.30	39.75	0.00	39.75
S18	S16	7.7	15.67	15.81	844	532	2746	482.76	2404.96	7.517	79.02	52.79	0.00	52.79
S16	S15	36.8	15.81	16.11	1003	0	3749	482.76	3107.06	7.668	78.30	67.58	0.00	67.58
S15	S14	37.5	16.11	16.46	0	547	3749	515.58	3139.88	8.309	75.25	65.63	0.00	65.63
S14	S13	27.8	16.46	16.48	0	550	3749	548.58	3172.88	8.982	72.04	63.50	0.00	63.50
S13	S12	21.6	16.48	15.95	0	1060	3749	612.18	3236.48	9.498	69.59	62.56	0.00	62.56
S12	S11	17.4	15.95	15.37	639	1560	4388	705.78	3777.38	9.905	67.65	70.99	0.00	70.99

Development Engineering Consultants - Drainage HGL Spreadsheet

Client:
 Project:
 Line:
 Location
 Nearest
 grid cell:



Pit 1 (u/s)	Pit 2(d/s)	D(mm)	k(u/s)	V(Hyd)(m/s)	Nr	f	Slope of HGL(S _o)	Friction HeadLoss H _f (m)	Upstream Pit HeadLoss s (m)	HGL(u/s)	HGL(d/s)	IL(u/s)	IL(d/s)	Pipe Grade(1:)
S26	S25	300	1	0.0290306	7.640E+03	0.035	201387.163	0.00	0.03	15.95	15.88	15.80	15.71	322.22
S25	S24	300	0.2	0.0809249	2.130E+04	0.028	32438.505	0.00	0.03	15.85	15.63	15.70	15.46	75
S24	S23	300	0.3	0.1673592	4.404E+04	0.025	8545.747	0.00	0.02	15.60	15.59	15.45	15.31	127.85
S23	S22	300	0.3	0.1864924	4.908E+04	0.024	6985.731	0.00	0.01	15.57	15.57	13.88	13.82	341.66
S22	S21	300	1.2	0.4964887	1.307E+05	0.022	1093.289	0.00	0.04	15.56	15.56	13.81	13.79	269.99
S21	S20	300	1.2	0.5826538	1.533E+05	0.022	803.473	0.03	0.03	15.51	15.48	13.78	13.70	338.75
S20	S18	300	0.3	0.5623957	1.480E+05	0.022	860.192	0.01	0.01	15.45	15.43	13.69	13.65	312.5
S18	S16	300	1.2	0.7467879	1.965E+05	0.021	497.186	0.02	0.04	15.42	15.41	13.64	13.61	256.66
S16	S15	300	1.2	0.9560693	2.516E+05	0.021	307.556	0.12	0.06	15.36	15.24	13.60	13.49	334.54
S15	S14	300	0.7	0.9284899	2.443E+05	0.021	325.606	0.12	0.03	15.19	15.07	13.48	13.37	340.9
S14	S13	300	0.7	0.8982972	2.364E+05	0.021	347.255	0.08	0.03	15.04	14.96	13.36	13.28	347.5
S13	S12	300	0.4	0.8850773	2.329E+05	0.021	357.421	0.06	0.02	14.93	14.87	13.27	13.20	308.57
S12	S11	300	0.7	1.0042569	2.643E+05	0.021	279.439	0.06	0.04	14.85	14.79	13.19	13.14	348

Development Engineering Consultants - Drainage Basin Spreadsheet

Client: Noble Hodge
Project: Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley
Location: At Lot Detention Calculations to Establish Runoff Coefficient - Connected Residential Lot
Designer: SRA

Location:	Parkview Gardens Helena valley		
Nearest grid cell:	Latitude	-31.9125	Longitude 116.0375



Data to be Input

Rainfall AEP (Percentage) **20**
 63.2% AEP Impervious Catchment (Ha) 0.027
 Required Storage (63.2% AEP - 1hr) (m³) 4.213

ARI 4.48 **▼ Descriptor ▼** Frequent

Catchment Details	Paved Area	Unpaved area	Total
Lot Area (SQM)			380.00
Proportion Paved	80%	20%	100%
Area Paved (Ha)	0.030	0.008	0.038
Run-Off Co-efficient(C10)	0.90	0.00	
ARI Multiplier	1.00	1.00	
Run-Off Co-efficient(Cy)	0.90	0.00	
Impervious Area(Ha)	0.027	0.000	0.027

Effective C
0.72

AEP	ARI	Effective C	Multiplier
63.2	1	0.18	0.46
50	1.44	0.23	0.59
20	4.48	0.33	0.85
10	9.49	0.39	1.00
5	20	0.44	1.13
2	50	0.49	1.26
1	100	0.51	1.31

Volume and Dimensions of Available Storage

Area above ground inundated to 0.03m deep
 (backyard and front yard) (m²) - 0.03 -
 Storage provided manholes/pipe (m³) -
 Number of Soakwells 2.00
 Diameter of soakwells (m) 1.50
 Depth of each soakwell (m) 1.20
 Storage required soakwells (m³) **4.24**
 Storage provided (m³) 4.24
 Soakage rate (l/s/m²) 0.01

Volume of storage required is 1m³ per 89.60 m² of total lot area

Development Engineering Consultants - Drainage Basin Spreadsheet

Project: Lots 2, 3 and 6 Tuckeroo Parade, Helena Valley

Location: At Lot Detention Calculations to Establish Runoff Coefficient - Connected Residential Lot

T_c (mins)	T_c (hrs)	I (mm/hr)	Q_{IN} (l/s)	Total V_{IN} (m ³)	Q_{OUT} (soakage) (l/s)	V_{OUT} (soakage) (m ³)	Net storage (after soakage) (m ³)	V_{OUT} required (m ³)	Q_{OUT} (l/s)	Effective runoff C
10	0.17	67.20	5.1	3.06	0.13	0.08	2.99	0.00	0.00	0.00
15	0.25	54.10	4.1	3.70	0.13	0.12	3.58	0.00	0.00	0.00
20	0.33	45.80	3.5	4.18	0.13	0.16	4.02	0.00	0.00	0.00
30	0.50	35.60	2.7	4.87	0.13	0.24	4.63	0.39	0.22	0.06
45	0.75	27.50	2.1	5.64	0.13	0.35	5.29	1.05	0.39	0.13
60	1.00	22.80	1.7	6.24	0.13	0.47	5.77	1.53	0.42	0.18
90	1.50	17.50	1.3	7.18	0.13	0.71	6.48	2.23	0.41	0.22
120	2.00	14.50	1.1	7.93	0.13	0.94	6.99	2.75	0.38	0.25
150	2.50	12.60	1.0	8.62	0.13	1.18	7.44	3.20	0.36	0.27
180	3.00	11.20	0.9	9.19	0.13	1.41	7.78	3.54	0.33	0.28
240	4.00	9.51	0.7	10.41	0.13	1.88	8.53	4.29	0.30	0.30
300	5.00	8.20	0.6	11.22	0.13	2.35	8.86	4.62	0.26	0.30
360	6.00	7.26	0.6	11.92	0.13	2.82	9.09	4.85	0.22	0.29
480	8.00	6.19	0.5	13.54	0.13	3.77	9.78	5.53	0.19	0.29
720	12.00	4.72	0.4	15.50	0.13	5.65	9.85	5.61	0.13	0.26
960	16.00	4.01	0.3	17.54	0.13	7.53	10.01	5.77	0.10	0.24
1440	24.00	3.03	0.2	19.90	0.13	11.30	8.60	4.36	0.05	0.16
2880	48.00	1.90	0.1	24.95	0.13	22.60	2.36	0.00	0.00	0.00
4320	72.00	1.44	0.1	28.37	0.13	33.90	-5.53	0.00	0.00	0.00



APPENDIX E – GEOTECHNICAL REPORT

- **JDSI Geotechnical Report June 2017**

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust



P: 08 9227 0595
F: 08 9227 8617
Level 6, 1 Nash St
Perth WA 6000
PO Box 8523
Perth BC WA 8649
jdsi.com.au

GEOTECHNICAL SITE INVESTIGATION

Lots 2, 3 and 6 Helena Valley Road

Helena Valley

**John Stefanelli, Joe Stefanelli,
Nick Di Candilo and Others**



JDS161188
June 2017

INTEGRITY

We are open, honest, and consistent in our principles and conduct, so we're able to build trusted relationships with our clients and partners.

RESPECT

We treat everyone with respect and dignity and develop relationships founded on understanding and trust.

ACCOUNTABILITY

We always assume responsibility for our actions and make decisions in line with our economic, social, and ethical obligations.

EXCELLENCE

We pursue excellence in everything we do, challenging ourselves to look beyond the obvious and ensure ongoing improvement.

This page has been intentionally left blank.



P: 08 9227 0595
F: 08 9227 8617
Workzone,
Level 6, 1 Nash Street,
Perth WA 6000
PO Box 8523
Perth BC WA 6849
ABN 69 611 127 676
jdsi.com.au

Geotechnical Site Investigation
Lots 2, 3 and 6 Helena Valley Road
Helena Valley

Our ref: JDS161188-R02-Rev2

Prepared for:
John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others
428 Great Northern Highway
Middle Swan, WA 6056

Prepared by:
JDSi Ground Engineering Pty Ltd
Level 6, 1 Nash Street
Perth WA 6000

13 June 2017

Document authorisation

For and on behalf of JDSi Ground Engineering Ltd

A handwritten signature in blue ink, appearing to read 'R. Moyle'.

Dr Richard Moyle
Principal Geotechnical Engineer

Lots 2, 3 and 6 Helena Valley Road
 Geotechnical Site Investigation
 JDS161188-R02-Rev2



Quality information

Revision history

Revision	Description	Date	Author	Reviewer	Signatory
Rev0	DRAFT	28 April 2017	RM	CD	RM
Rev1	Final	23 May 2017	RM	CD	RM
Rev2	Additional information included	13 June 2017	RM	CD	RM

Distribution

Report Status	No. of copies	Format	Distributed to	Date
Rev2	1	PDF	John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others	13 June 2017
Rev2	1	PDF	JDSi Ground Engineering Report Library	13 June 2017

TABLE OF CONTENTS

1	Introduction	6
2	Site history	6
2.1	Summary of historical land use.....	6
2.2	Summary of historical aerial photographs.....	7
2.3	Recent investigation	7
3	Geotechnical investigations.....	9
3.1	Geotechnical investigations.....	9
3.2	Laboratory testing.....	9
4	Results of the geotechnical investigations.....	9
4.1	Published geology.....	9
4.2	Published Groundwater Data.....	10
4.3	Historic investigations.....	10
4.4	Current geotechnical investigations.....	11
5	Geotechnical assessment	12
5.1	General	12
5.2	Proposed development.....	12
5.3	Preliminary earthworks strategy.....	13
6	Concluding comments.....	15

TABLES

Table 1 – Extent of laboratory testing	9
Table 2 – Zone description	10
Table 4 – Summary of fill thickness	11

IMPORTANT INFORMATION SHEETS

“Your Geotechnical Report”

FIGURES

Figure 1 – Site Investigation Layout

Figure 2 – Fill Areas

APPENDICES

Appendix A – Douglas Partners Borehole logs

Appendix B – Douglas Partners Test Pit Logs

Appendix C – JDSi Test Pit Logs

Appendix D – Laboratory Test Results

1 Introduction

This report presents the geotechnical site investigation carried out by JDSi Ground Engineering Pty Ltd (JDSi) for John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others (John Stefanelli and Others) for the proposed residential subdivision development located at Lots 2, 3 and 6 Helena Valley Road, Helena Valley. This work was commissioned by Mr John Stefanelli on 19 January via a signed Client Acceptance Form.

The site is rectangular in shape, covering an area of about 13.2 ha and is bound by existing residential development to the east and south of the site and undeveloped land to the west and north. The eastern portion of the site has historically been used for clay extraction and inert landfilling. We understand that the proposed earthworks on the site will consist of small amounts of cut over the site, and between 1m and 3m of fill to be imported to form the final fill level. The approximate subdivision layout and location is shown on **Figure 1**, attached to this report.

JDSi has previously undertaken a desktop review of site, including a site walkover. The intent of the desktop review was to quantify the extent of the fill and (likely) fill constituents. The results of the desktop review are presented in our report (reference: JDS161188-R01-Rev0) dated February 2017.

Emerge Associates Pty Ltd (Emerge) carried out an environmental investigation for the proposed development; during which JDSi was on site to observe materials intersected in test pits, provide engineering logs of the materials encountered and limited geotechnical interpretation.

Emerge has also installed groundwater monitoring wells across the site. JDSi was not on site during the installation of the wells, however the logs of the wells (in the form of thickness of fill) has been provided by Emerge and used in this assessment.

This report, and the information presented herein, must be read in conjunction with the previous desktop study report and JDSi's "*Your Geotechnical Report*" information sheets attached to this report.

2 Site history

2.1 Summary of historical land use

Based on Emerge report (reference: EP13-031(01)—002) dated August 2015, a summary of the historical land use at the site is as follows:

- ▶ 1912 to 1975 – Site was used as a brick works including clay extraction and brick manufacture;
- ▶ 1975 to 1982 – Site was used for the following operations:
 - Salvage yard;
 - Construction of transportable buildings;
 - Repair and renovation of buildings transported to the site;
 - Recycling of dry demolition rubble and material for resale; and
 - Disposal of dry demolition rubble.
- ▶ 1982 to Present – the site was used for the following operations:
 - An inert landfill from 1982 to 1993;

- A tire shredding facility;
- A hay processing facility for preparing bales for international transport; and
- Currently used as a laydown and storage facility for drilling equipment and machinery.

2.2 Summary of historical aerial photographs

Based on Emerge report (reference: EP13-031(01)—002) dated August 2015, a summary of the historical aerial photographs at the site is as follows:

- ▶ The site was operational as a brick works at the time of the earliest photograph in 1953;
- ▶ A large portion of the site was included in the clay extraction area and formed a large surface water body prior to filling;
- ▶ The void formed by the clay extraction was filled between 1977 and 1995;
- ▶ Since 2000 the site has largely consisted of a laydown and storage area; and,
- ▶ Between 2009 and 2010 additional sand / sandy clay was imported to the north eastern portion of the site and some filling works were completed.

2.3 Recent investigation

On 7 April 2017, JDSi was provided with a geotechnical investigation report by Douglas Partners Pty Ltd (DP) (reference 88790.01 dated February 2017) for a proposed gravity sewer main.

Part of the proposed sewer main traverses the eastern portion of the proposed development along the planned extension to Tuckeroo Parade and Carabeen Avenue. DP undertook six boreholes along this alignment (BH16 to BH19B) and the engineering logs for these holes have been included in **Appendix A** together with the site plan of the investigation. The locations of the DP boreholes have been included on **Figure 1** of this report.

The DP boreholes logs indicate the following:

- ▶ Boreholes BH16, BH17 and BH18 encountered between 0.7 and 1.75m of Fill overlying Clayey Sand to borehole termination depth.
- ▶ Boreholes BH19 and BH19A refused in Fill at depths of 2.7m and 3.7m, respectively. The reason for refusal was reported by DP to be on concrete.
- ▶ Borehole BH19B encountered 4.3m of Fill overlying (natural) Clayey Sands.
- ▶ Groundwater was reported in BH19B at a depth of 3.5m.

On 16 May 2017, JDSi were provided with a subsequent report by DP (reference 88790.03 dated April 2017) for a Targeted Contamination Assessment of the proposed gravity sewer. As part of the May 2017 investigation, DP undertook six test pits along the proposed alignment. The test pit logs and site plans have been included in **Appendix B**. The locations of the DP test pits have been included on **Figure 1** of this report.

The DP test pit logs indicate the following:

- ▶ The test pits encountered between 0.7m and 1.6m of Fill overlying Clayey Sand through to the maximum termination depth of 2.5m.
- ▶ Test pit 104 encountered Sandy Clay between 2.2m and 3.3m.

The results from the April 2017 investigations by DP were significantly different to those reported by DP in February 2017. For example, BH19 and BH19B recorded up to 4.3m of Fill; whereas the only 1.6m was reported by DP in the adjacent test pit (TP105). Similarly DP recorded 3.7m of fill in borehole 19A prior to refusal; whereas DP reported 0.5m of fill in the adjacent test pit (TP106). The DP April 2017 report did not provide specific comment on the variability in thickness of Fill encountered in the different investigations other than noting “*deeper pockets of uncontrolled filling along the sewer along the sewer alignment than those encountered during the test pitting cannot be ruled out*”.

Based on the information provided, JDSi cannot determine the reason for the reported variability in Fill thickness over such short distances. The reason for the variability should be confirmed by DP.

Emerge installed groundwater monitoring wells on 5 May 2017 across the proposed development site, the locations of which is presented on **Figure 1**. A summary of the groundwater wells and the depths of Fill encountered is presented in Table 1.

Table 1 – Summary of groundwater well installation

Groundwater Well	Depth of Fill (m)	Groundwater well	Depth of Fill (m)
MW A	8.0	LFG G	0
MW B	7.8	LFG H	0.05
MW C	2.3	ESB 01	4.2
MW D	0	ESB 02A	4.1
LFG A	2.0	ESB 02B	3.5
LFG B	0.1	ESB 02C	3.1
LFG C	2.0	ESB 03	4.1
LFG D	0	ESB 04	2.2
LFG E	4	ESB 05	0
LFG F	3.9	ESB 06	3.1

Note: All depths reported are metres below ground surface level at the time of installation of the wells.

3 Geotechnical investigations

3.1 Geotechnical investigations

The geotechnical investigations undertaken as part of this study were completed in general accordance with AS 1726 "Geotechnical Site Investigations" and included the excavation of 12 test pits to depths of between 1.5m to 2.6m.

Engineering logs of the materials encountered within the test pits are presented in **Appendix C**, along with explanatory notes of the description methods used.

The locations of the test pits are shown on **Figure 1**, with the overlay of the proposed subdivision layout.

3.2 Laboratory testing

Laboratory testing for the geotechnical investigation was carried out in accordance with the general requirements of AS 1289 by Material Consultants Pty Ltd at their NATA registered soils laboratory.

A summary of the laboratory testing completed for this study is presented in Table 2 and the laboratory test certificates are included in **Appendix D**.

Table 2 – Extent of laboratory testing

Type of Test	Test Method Reference	Number of Tests Completed
Particle Size Distribution	AS 1289.3.6.1	3
Atterberg Limits	AS 1289.3.1.1 – 3.4.1	3
Standard Compaction	AS 1289.5.1.1	1
Modified Compaction (MMDD)	AS1289.5.2.1	1

4 Results of the geotechnical investigations

4.1 Published geology

The 1:50,000 Environmental Geology Series map (Perth) indicates that the site is expected to be underlain by pebbly silt of the Guildford Formation. This unit is described as "*strong brown silt with common, fine to occasionally coarse-grained, sub-rounded laterite quartz, heavily weathered granite pebble, some fine to medium quartz sand of alluvial origin*".

The map also indicates the presence of quarry of pit activity and a lake feature in the in the north eastern portion of the site.

4.2 Published Groundwater Data

The Perth Groundwater Map (<http://www.water.wa.gov.au/>) provides historical groundwater contours for the Perth Metropolitan area. This dataset indicates that groundwater levels were at about 8m to 9m AHD in 2003 (end of summer) which is about 6m to 7m below existing site levels.

It must be noted that the depth of groundwater and localised groundwater response will have been altered by the historic land use. Fluctuations in groundwater levels must be expected.

4.3 Historic investigations

WorleyParsons Services Pty Ltd (WorleyParsons) completed a number of geotechnical and environmental investigations at the site during which the boundaries of the former inert landfill were defined. The depth of the pit prior to backfilling is unknown and estimated to have a depth of between 10 and 20m, but possibly deeper.

The results of the most recent WorleyParsons investigation divide the site into zones. A summary of the zones is provided in Table 3.

Table 3 – Zone description

Zone	Zone Description
Zone 1	Deep Fill Area: Excavation/backfilled area; comprising highly variable and highly compressible uncontrolled fill to depths exceeding 3.0m. The uncontrolled fill in this zone is understood to comprise a variety of deleterious materials including concrete, bricks, plastic, tyres, rubber, steel and other miscellaneous debris;
Zone 1.5	Excavation/backfilled area; comprising highly variable and highly compressible uncontrolled fill up to a maximum depth of 1.5m. The uncontrolled fill in this zone is consistent with Zone 1 but is shallow in depth;
Zone 2	Non-excavated/backfilled area: a transition area between the boundary of the former excavation and where small amounts of uncontrolled fill were placed beyond the edge of the excavation overlying the natural ground surface. The uncontrolled fill in this zone comprises predominately brick fragments and concrete. The maximum depth of fill encountered during investigation of Zone 2 was 1.8m;
Zone 2a	Generally similar in characteristics to Zone 2, however fill material associated with the previous brick works operation were identified to a maximum depth of 7.0m in borehole MW_07_01;
Zone 3	Natural Ground: Non-excavated/non backfilled area: defined as an area outside the boundaries of any fill placement. This was assumed to be natural ground at the site; and
Zone 4	Inaccessible area; no investigation was possible in this area due to the presence of dense vegetation and disused machinery. There is evidence of previous earthmoving activities in this zone, therefore the potential presence of fill should be considered for future development.

Zone boundaries in relation to the proposed subdivision layout are included in our desktop report dated February 2017. Also included in our desktop report are geological descriptions of each zone.

4.4 Current geotechnical investigations

Overview

Based on the geotechnical investigations undertaken, the typical profile encountered comprised of uncontrolled fill overlying medium plasticity Clay. Some of the test pits intersected Sandy Clay overlying the medium plasticity Clay.

A summary of the thicknesses of the uncontrolled fill materials encountered during the JDSi and DP investigations is presented in Table 4.

Table 4 – Summary of uncontrolled fill thickness

Test Pit	Thickness of Fill (m)	Test Pit	Thickness of Fill (m)
TP1	1	TP7	0.4
TP2	0	TP8	0.3
TP3	2	TP9	0.5
TP4	1.8	TP10	>2.6
TP5	0	TP11	1.4
TP6	0.9	TP12	0.2
DP BH16	0.75	DP TP101	0.7
DP BH17	0.7	DP TP102	0.9
DP BH18	1.75	DP TP103	1.0
DP BH19	>2.7m	DP TP104	0.6
DP BH19A	>3.7m	DP TP105	1.6
DP BH19B	4.3m	DP TP106	0.5

Groundwater was not intersected during the recent geotechnical investigation. Historic information presented by Worley Parsons (included in the JDSi desktop study report) indicates that groundwater was encountered approximately 5m below ground surface level. More recent groundwater monitoring by Emerge indicates that groundwater depth could vary from approximately 0.1m to 2.5m below ground surface level.

As noted previously, groundwater depths must be expected to vary due to subsurface conditions, climatic conditions and earthworks.

Uncontrolled Fill material

The Uncontrolled Fill material intersected consisted of a mixture of construction rubble (such as bricks, concrete, steel, gravels etc.), sands and clay.

Natural profile

The natural profile consists of a low plasticity Sandy Clay (or Clayey Sand), of varying thickness, overlying a medium plasticity Clay.

During wetter months, groundwater is expected to perch at the boundary between the Fill and natural profile, particularly with the nature of the Fill. This could possibly explain the difference in groundwater levels recorded by Emerge and WorleyParsons.

5 Geotechnical assessment

5.1 General

Based on our review of the client supplied information, the geotechnical investigations completed and our understanding of the proposed development, the proposed development has been delineated into three areas, based on the subsurface conditions.

These are:

- ▶ **Natural Areas:** Natural Areas are parts of the site where no fill material has been intersected, or the fill will be removed during the bulk earthworks phase;
- ▶ **Shallow Fill Areas:** Shallow Fill Areas contain uncontrolled fill material where the thickness is less than 1m;
- ▶ **Filled Areas:** Filled Areas contain uncontrolled fill material where the thickness is more than 1m but less than 2m; and,
- ▶ **Deep Fill Areas:** Deep Fill Areas contain uncontrolled fill material where the thickness is greater than 2m.

The delineation of these areas is presented on **Figure 2**.

5.2 Proposed development

The layout of the proposed development has been provided for this report, however consideration will need to be given to the following key elements:

- ▶ Proposed Site Classification in accordance with AS 2870 – 2011 "*Residential Slabs and Footings*" for the proposed development and cost / benefit analysis of varying the lots;
- ▶ Proposed levels of the development, including thickness of fill materials;
- ▶ Acceptance of caveats on the lots (such as limitations on the depth of excavations, for example);
- ▶ Performance expectation of the roads and any limitation on the use of construction materials beneath roads from ultimate asset owners (crushed brick or concrete, for example);
- ▶ Proposed sewer alignment, including depth of sewer;

- ▶ Proposed stormwater management system and development requirements; and
- ▶ Timing and interaction with surrounds, including proposed sewer alignment noted in the DP February 2017 report.

5.3 Preliminary earthworks strategy

Bearing in mind that the refinement of the development, as noted in Section 5.2, the following earthworks strategy has been provided for the different fill areas.

It should be noted that all fill work noted below should be undertaken using clean inert fill and placed and compacted in accordance with the requirements of AS 3798 – 2007 “*Guidelines on Earthworks for Commercial and Residential Developments*”.

Natural Areas

Based on the WorleyParsons report, the natural materials at the site would be expected to result in a **Class M** site in accordance with AS 2870 – 2011 “*Residential Slabs and Footings*”.

According to WorleyParsons, the site classification could be amended to a **Class S** with the addition of at least 1.2m of compacted clean sand fill over the natural soil profile. To achieve a **Class A** site, at least 1.8m of clean sand fill would be required over the natural soil profile.

Shallow Fill Areas

In areas containing <1m of uncontrolled fill preference would be given to excavation of the uncontrolled fill material and placement in the northern areas of the site (away from the proposed development). This would allow lots to be developed as a “natural” lot, with structural fill placed to the design surface level.

Where this is not possible (due to environmental or economic reasons); or where the thickness of structural fill will be >1.8m, consideration could be given to impact rolling the area to compact the uncontrolled fill. An engineering specified geofabric layer would then need to be placed over the compacted uncontrolled fill and material imported to fill the site to the design surface level.

An economic assessment should be undertaken by the Civil Engineer appointed to design the works and should consider the effect of “non-geotechnical” issues of leaving existing fill materials in place. Specialist environmental advice should also be sought from an Environmental Consultant in regards to any issues associated with excavation and placement of uncontrolled fill materials in other parts of the site (away from the development).

Consideration would need to be given to the potential intersection of services with the geofabric layer and fill areas (containing building rubble).

Filled Areas

Based on our experience, in areas where the uncontrolled fill thickness is >2m, it is uneconomical to excavate and replace this material. This assumption should be reviewed / considered from both an economic and environmental point of view.

Assuming that the uncontrolled fill will be left in place, the uncontrolled fill materials could be proof rolled and treated using an impact roller over the entire area to compact and improve the load bearing properties of the uncontrolled fill. As per the Shallow Fill Area, an engineering specified geofabric layer should be placed over the impact rolled areas prior to filling the site to the design levels with approved structural fill.

The amount of settlement induced by the proof rolling process will be highly variable as it depends on the nature of the material and the manner in which it was placed. Typically, the amount of settlement could be up to 5% of the fill thickness. This would need to be confirmed by site trials.

Depending on the thickness of approved structural fill to be placed (i.e. the distance between existing surface level and the design surface levels), the following points should be considered:

- ▶ A surface corridor should be excavated and backfilled with approved structural fill during the bulk earthworks phase. This will allow civil services to be constructed in “clean” fill (rather than the uncontrolled fill on site);
- ▶ Where the thickness of approved structural fill will be less than 2m, consideration should be given to over-excavating the uncontrolled fill and replacing it with approved structural fill. This option would need to be assessed by the Civil Engineer who should consider the economic viability of undertaking the over-excavation works.
- ▶ A compacted limestone layer and/or an engineering specified geogrid layer could be included where the thickness of approved structural fill will be less than 2m to provide a stiffer “soil raft” for the development.
- ▶ Where the thickness of approved structural fill will be greater than 2m, “*alternative fill materials*” may be used provided they are placed >2m from design finish level. The “*alternative fill materials*” could be screened / processed uncontrolled fill; clay fill or other potential sources. It is recommended that the specification and compaction requirements of the “*alternative fill materials*” be reviewed on a lot-specific and material specific basis.
- ▶ The Civil Engineer and Environmental Consultant would need to provide advice on potential caveats on titles (depending on the depth of approved structural fill and inclusion of “*alternative fill materials*”);
- ▶ Location of soakwells and interaction with geofabric layer; uncontrolled fill or deep fills.

Deep Fill Areas

The Deep Fill Areas are limited to a discrete areas that would affect the proposed northern road alignment, and three or four housing lots.

Based on recent discussions about the earthworks strategy for the proposed development, the following is recommended:

- ▶ Excavation of the deep fill areas to nominally 2m above the base of the fill;
- ▶ Impact rolling over the excavated areas, and any loose areas excavated and replaced with clean fill;
- ▶ A surface corridor should be excavated and backfilled with approved structural fill during the bulk earthworks phase. This will allow civil services to be constructed in “clean” fill (rather than the uncontrolled fill on site);
- ▶ Bulk earthworks to be undertaken to backfill the site to the design surface level. The upper 2m (at least) should be approved structural fill. As for the Filled Areas, “*alternative fill materials*” may be incorporated into the profile provided they are placed to an appropriate earthworks specification and located at a depth of more than 2m below design surface level.

6 Concluding comments

The final selection of the geotechnical strategy for the proposed development will be dependent upon environmental consideration (such as the disposal of fill elsewhere on site) and the financial feasibility of the earthworks strategy.

We understand that detailed review of the earthworks strategy (and feasibility) will be undertaken by the Civil Engineer (McDowall Affleck Pty Ltd) as part of the project. Other points to note regarding the earthworks strategy include:

- ▶ Topsoil materials should be stripped and stockpiled in accordance with the requirements of the Superintendent. Topsoil material is typically not suitable for use as approved structural fill.
- ▶ The requirements for grading of clay layers and the need for any subsoil drainage should be designed by the Civil Engineer.
- ▶ The earthworks specification would need to be developed specifically for the material being used as approved structural fill. “*Alternative fill materials*” would need to be clearly defined regarding their engineering properties, placement in the (subsurface) profile and compaction requirements.
- ▶ The earthworks verification strategy would need to be developed in conjunction with the earthworks design and specifications, and be suitable for the material being tested.

Upon completion of the design, and prior to commencement of construction, it is recommended the earthworks strategy be reviewed and monitored during construction.

As part of that works, a ground improvement specification and verification methodology should also be developed at the initial phase of the construction works. The ground improvement specification should be monitored during the works by a competent and independent geotechnical engineer experienced in ground improvement works.

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



“Your Geotechnical Report”

1 Introduction

The information contained in this document is to inform JDSi's clients of the reasonable expectations of a geotechnical report and options to mitigate geotechnical risks and consequences. This information is provided to help clients understand where JDSi's responsibility as a geotechnical engineer, acting reasonably, begin and end. In doing so, it also highlights the responsibility of our client and third parties.

Please contact the JDSi Project Director should you not understand the report and the limitations of the information provided.

2 Collection and Interpretation of Data

Geotechnical investigations identify subsurface conditions only at the point of investigation. The material encountered during the investigation is recorded on logs and based on a visual assessment and (if undertaken) supported by laboratory test results. In the case of an Electric Friction Cone Penetrometer Test (CPT), the data recorded is a tip pressure and sleeve friction on a rod; from which ground conditions are inferred.

Actual conditions may differ from those encountered during the investigations and / or inferred a distance from the investigation stations. In addition, the actual interface between materials or units may be gradual or more abrupt than inferred from the results of the investigation.

A Chartered Geotechnical Engineer and / or Engineering Geologist should be retained through the various stages of the project to identify variances, conduct additional tests if required, and provide recommendations to address geotechnical / geological issues identified on site. The Chartered Geotechnical Engineer / Engineering Geologist should also review the actual conditions encountered to confirm that they are consistent with those inferred in this report.

3 Change in Subsurface Conditions

The geotechnical recommendations and parameters provided in this report are based on the ground conditions encountered at the time of the geotechnical investigation. Changes in the ground conditions can occur over time and include, but are not limited to, the following:

- ▶ Filling or excavation works (or other anthropologic events);
- ▶ Flooding;
- ▶ Groundwater fluctuations;
- ▶ Earthquakes or other such events;
- ▶ Works on neighbouring sites impacting on the subject site; and,
- ▶ Migration of pollutants from neighbouring properties.

JDSi should be consulted if there is any protracted delay in the issue of this report and the use of the recommendations provided.

It is important to note that where ground conditions have changed, additional geotechnical investigations and testing may be required to assess the impacts of the changed ground conditions.

4 Specificity of Report

This geotechnical report has been prepared for a specific project and design; therefore, it has been written to address specific geotechnical issues. In doing so, the following has been taken into account:

- ▶ The project objectives as described in the report;
- ▶ The client's budget and programme constraints;
- ▶ The specific site mentioned in the report; and,
- ▶ The nature and extent of the development at the site.

This report should not be used for any other purpose other than what has been specifically described and should not be relied upon if:

- ▶ The report was not written for you;
- ▶ The report was not written for your specific site;
- ▶ The report does not address your specific development;
- ▶ There is a significant delay between undertaking the report and developing the site; or,
- ▶ Significant changes to the site have occurred.

Where the information and recommendations contained within this report are being used by others, JDSi should be engaged during the design process to engage with the other members of the design team and review works being produced by the other design team members to confirm that it is consistent with the geotechnical report.

5 Environmental Issues

Unless specifically addressed in this report, environmental and contamination considerations are not included. The investigation methods required for environmental investigation often differ to those used for geotechnical investigations and the information contained within this report may not be appropriate for use by environmental engineering consultants and scientists.

This report was not prepared to address environmental issues and the client is responsible to ensure environmental considerations have been taken into account for the project. JDSi can provide information on environmental engineering consultants, should this be required.

6 Construction

The method of ground investigation used for geotechnical investigations limits JDSi's ability to know every detail about the ground conditions on site. JDSi use reasonable engineering judgement to form an assessment of the subsurface conditions at the site based on information obtained at specific locations.

Ground conditions may be encountered during construction that were not anticipated during the geotechnical investigation. Should this be the case, JDSi should be engaged to provide construction support as a means of mitigating the consequence of encountering unexpected ground conditions.

7 Responsibility of Others

JDSi has prepared this report for the use by our client. JDSi does not accept any responsibility from any third party, other than our client, who uses the information contained in this report. JDSi takes no responsibility for any damages suffered by any third party as a consequence of any decisions or action that have been made based on this report.

Further information regarding the responsibility of clients and other third parties should also be obtained from the following:

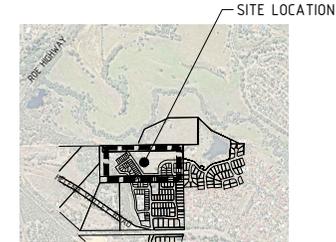
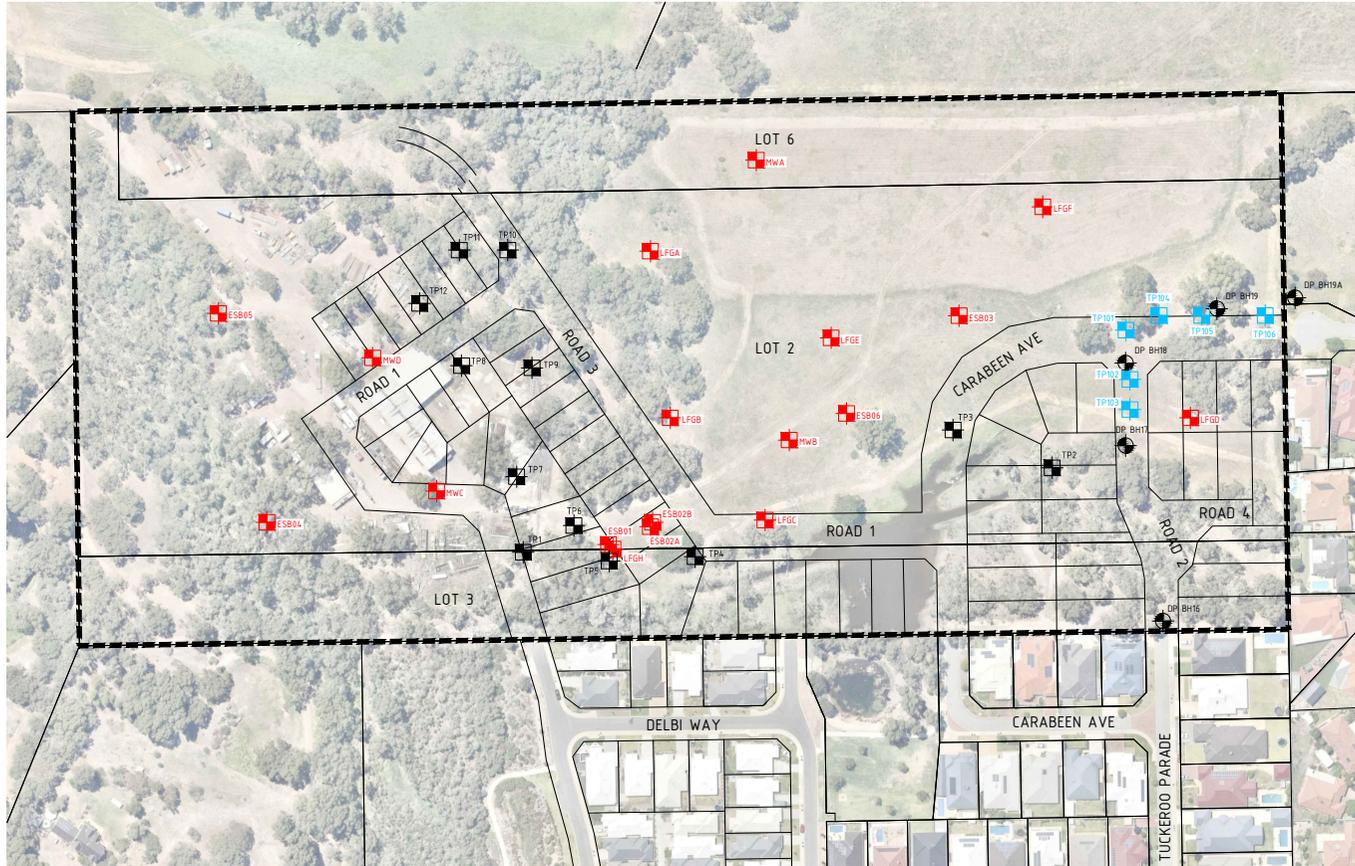
- ▶ “Guidelines for the Provision of Geotechnical Information in Construction”, published by the Institution of Engineers Australia;
- ▶ Australian Standard AS 2870 – 2011, Residential Slabs and Footings;
- ▶ Australian Standard, AS 5100 – 2004, Bridge Design Set; and,
- ▶ Any other Standard or Code of Practice applicable to the development.



Figures

Figure 1 – Site Investigation Layout

Figure 2 – Fill Areas



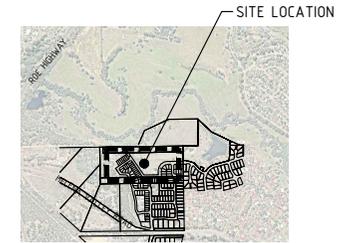
LOCALITY PLAN

NOTES
 SUBDIVISION LAYOUT SOURCED FROM MCDOWALL AFFLECK PTY LTD
 PRELIMINARY DRAWING REFERENCE NOS. 127149-SK02 REV D AND
 127149-SK04 REV A

- LEGEND**
- SITE BOUNDARY
 - PROPOSED SUBDIVISION LAYOUT
 - PIT REFERENCE TEST PIT LOCATION
 - PIT REFERENCE BOREHOLE LOCATION (BY DOUGLASS PARTNERS)
 - PIT REFERENCE GROUND WATER WELL LOCATIONS (BY EMERGE ASSOCIATES)
 - PIT REFERENCE TEST PIT LOCATIONS (BY DOUGLASS PARTNERS)



JDS161188
 LOTS 2, 3 AND 6 HELENA VALLEY ROAD, HELENA VALLEY
 FIGURE 1 - SITE INVESTIGATION LAYOUT
 JDS161188-R02-Figure1-Rev1



LOCALITY PLAN

NOTES
 SUBDIVISION LAYOUT SOURCED FROM MCDOWALL AFFLECK PTY LTD
 PRELIMINARY DRAWING REFERENCE NOS. 12749-SK02 REV D AND
 12749-SK04 REV A

LEGEND

-  SITE BOUNDARY
-  PROPOSED SUBDIVISION LAYOUT
-  TEST PIT LOCATION
-  BOREHOLE LOCATION (BY DOUGLAS PARTNERS)

- FILLED AREAS**
-  SHALLOW FILL
 -  FILLED AREAS
 -  DEEP FILL

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix A – Douglas Partners Borehole logs



 <p>Douglas Partners Geotechnics Environment Groundwater</p>	CLIENT: Dunland Property Pty Ltd	Test Locations, Site Features and Proposed Development	PROJECT: 88790.01
	OFFICE: PERTH DRAWN BY: MAB	Geotechnical Investigation	DWG No. 1
	SCALE: As Shown DATE: 16/02/2017	Stage 1 Bushmeade Estate, Midland Road, Hazelmere, WA	REV No. Rev0

BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 16.5 AHD	BORE No: BH16
PROJECT: Geotechnical Investigation	EASTING: 408065	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6468907	DATE: 23/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)
				Type	Depth	Sample	Results & Comments		
	0.75	FILLING (SAND) - dense, brown, fine to medium grained, sand with some gravel, dry. Gravel is fine to coarse sized laterite.	[Cross-hatch pattern]	ASS	0.5	155			5 10 15 20
	1	CLAYEY SAND - dense / hard, yellow-orange-brown, fine to medium grained, clayey sand, with a trace of fine to coarse sized gravel and a trace of silt, dry to moist. - gravel becoming finer sized from 1.25 m.	[Diagonal hatch pattern]	ASS	1.0	156			
	1.5			ASS	1.5	157			
	2			D					
	2			ASS	2.0	158			
	2.5			ASS	2.5	159			
	3	- becoming moist from 2.75 m.		ASS	3.0	160			
	3.5	- becoming brown from 3.25 m.		ASS	3.5	161			
	4	- becoming grey-brown from 3.75 m.		ASS	4.0	162			
	4.5			ASS	4.5	163			
	4.75			D					
	5	- becoming grey from 4.75 m.		ASS	5.0	164			
	5.5	- becoming grey-brown from 5.25 m.		ASS	5.5	165			
	6	- becoming brown mottled grey-green from 5.75 m.		ASS	6.0	166			
	6.5	- becoming grey mottled orange-brown from 6.25 m.		ASS	6.5	167			
	7	Bore discontinued at 7.0m (target depth).		ASS	7.0	168			

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques. Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	⚡ Water level	V Shear vane (kPa)	



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Geotechnical Investigation
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA

SURFACE LEVEL: 16.0 AHD
EASTING: 408053
NORTHING: 6468984
DIP/AZIMUTH: 90°/--

BORE No: BH17
PROJECT No: 88790.01
DATE: 20/1/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Dynamic Penetrometer Test (blows per 150mm)
				Type	Depth	Sample		
	0.15	TOPSOIL (SAND) - grey-brown, fine to medium grained sand with some silt and some rootlets, dry.						
	0.4	FILLING (GRAVELLY SAND) - dense, brown, fine to medium grained, gravelly sand filling, dry. Gravel is fine to coarse sized laterite and bricks with some brick cobbles.	D	0.4	169			
	0.5			0.5				
	0.6		ASS	0.6				
	0.7	CLAYEY SAND - very dense, yellow-brown mottled orange, fine to medium grained, clayey sand with some gravel, humid. Gravel is fine to coarse sized laterite.	ASS	1.0	170			
	1.2			1.3				
		GRAVELLY CLAYEY SAND - very dense, orange-yellow clayey sand mottled with light grey gravelly clayey sand. Gravel is fine to coarse sized quartz, humid.	D	1.5	171	pp >600 9,3 refusal		
				1.6				
		- push probe refusal at 1.9 m.	ASS	1.9	172	pp = 150		
				1.95				
			ASS	2.0				
				2.2				
			ASS	2.5	173			
				3.0				
		- becoming grey mottled red-brown and orange with a trace of gravel from 3.1 m.	D	3.3				
				3.4				
		- becoming red-brown with some fine to coarse sized laterite gravel from 3.6 m.	ASS	3.45				
				3.5				
		- becoming grey sandy clay with a trace of gravel from 3.8 m.	ASS	3.75				
				4.0				
		SAND - medium dense, grey, fine to medium grained, sand with a trace of silt and clay, wet.	D	4.5	177	pp = 75 7,8,5 N = 13		
				4.95				
			ASS	5.0	178			
				5.25				
			ASS	5.5	179			
				6.0				
		- becoming red-brown from 6.0 m.	D	6.0	180	5,12,14 N = 26		
				6.45				
		- becoming orange brown mottled red and grey, with a trace of gravel from 6.25 m. Gravel is fine to coarse sized brown cemented sand.	ASS	6.5	181			
				6.75				
			ASS	7.0	182			
				7.5				
		SLIGHTLY CLAYEY SAND - medium dense, grey fine to medium grained, slightly clayey sand, wet.	D	7.5	183	2,6,11 N = 17		
				7.95				
			ASS	8.0	184			
				8.5				
			ASS	8.5	185			
				9.0				
	9.0	Bore discontinued at 9.0m (target depth).	ASS	9.0	186	pp = 175		

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger & SPT

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

Sand Penetrometer AS1289.6.3.3
 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	⚡ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH18
PROJECT: Geotechnical Investigation	EASTING: 408052	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469027	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
		GRAVELLY SAND - very dense, red-orange-brown, fine to medium grained, gravelly sand with a trace of clay, a trace of silt, dry. Gravel is fine to coarse sized quartz.	(Symbol: circles in sand)											
		- becoming brown from 0.75 m.												
		- becoming dark brown with a trace of gravel from 1.25 m.												
	1.75	CLAYEY SAND - yellow-orange-brown, fine to medium grained clayey sand, with some fine gravel, humid.	(Symbol: diagonal lines)											
		- becoming orange-brown with some fine to coarse sized laterite gravel from 2.25 m.												
		- becoming light brown clayey sand with a trace of gravel from 2.75 m.												
		- becoming orange-brown from 3.75 m.												
		- becoming moist from 4.25 m.												
		- becoming grey and saturated from 4.8 m.												
		- becoming grey mottled orange-brown from 6.0 m.												
		- becoming orange-brown mottled grey 6.75 m.												
	7.0	Bore discontinued at 7.0m (target depth).												

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

Sand Penetrometer AS1289.6.3.3
 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	⚡ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH19A
PROJECT: Geotechnical Investigation	EASTING: 408117	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469053	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 0mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
		FILLING (GRAVELLY SAND) - medium dense, light brown, fine to medium grained, sand with some silt and some gravel, dry. Gravel is fine to coarse sized laterite and brick fragments.	[Cross-hatch pattern]	ASS	0.5									
	1.1	- traces of clay from 1.1 m.		D										
	1.4	- some clay from 1.4 m.		ASS	1.0									
	1.5	- some fragments of concrete, brick, charred wood from 1.5 m.		ASS	1.5		4,9,10 N = 19							
	1.95			D										
	2.0	- brick and concrete fragments from 2.0 m		ASS	2.0									
	2.5	- becoming brown slightly clayey sand from 2.5 m.		D										
	3.0			ASS	2.5									
	3.0	- becoming very loose from 3.15 m.		D			6,2,1 N = 3							
	3.45			D (S)	3.45									
	3.7	Bore discontinued at 3.7m(refusal - concrete).												
	4													
	5													
	6													
	7													
	8													
	9													

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Push Probe (95mm Ø), Solid Flight Auger & SPT

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using push probing and solid auger on refusal. Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
BLK Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	⚡ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH19B
PROJECT: Geotechnical Investigation	EASTING: 408084	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469055	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)
				Type	Depth	Sample	Results & Comments		
15.0	0.1	TOPSOIL (SAND) - dense, brown-grey, fine to medium grained, sand with some silt, some rootlets, humid.	[Cross-hatched pattern]	ASS	0.5	201			
		FILLING (GRAVELLY SAND) - dense, red-brown, fine to medium grained, gravelly sand filling, humid. Gravel is fine to coarse sized metal, laterite, brick, ceramic. Three lengths of re-bar became entangled on the auger. - becoming medium dense from 0.75 m.		ASS	1.0	202			
				ASS	1.5	203			
				S			6.7,2		
				ASS	1.95	204			
				ASS	2.0		N = 9		
				ASS	2.5	205			
				ASS	3.0	206			
				S					
				ASS	3.45	207			
		- becoming gravelly clayey sand from 3.5 m.	ASS	3.5					
			ASS	4.0	208				
			ASS	4.5	209				
		CLAYEY SAND - medium dense / very stiff, grey mottled red-brown, fine to medium grained clayey sand, moist.	S			4,6,12			
		- becoming red-brown mottled grey from 4.75 m.	ASS	4.95	210				
			ASS	5.0		pp = 375			
			ASS	5.5	211				
		- trace of weakly cemented sandy gravel and becoming moist to wet from 5.2 m.	ASS	6.0	212				
			ASS	6.5	213				
			ASS	7.0	214				
			S			10,12,15			
			ASS	7.45	215				
			ASS	7.5		N = 27			
			ASS	8.0	216				
			ASS	8.5	217				
			ASS	9.0	218				
	9.0	Bore discontinued at 9.0m (target depth).							

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger & SPT

WATER OBSERVATIONS: Groundwater observed at 3.5 m below the surface on 1 February 2017.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	▽ Water level	V Shear vane (kPa)



Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix B – Douglas Partners Test Pit Logs



Base Image Source: Nearmap, flown February 2017.

 Douglas Partners Geotechnics Environment Groundwater	CLIENT: Dunland Property Pty Ltd		Test Location Plan	Project 88790.03
	OFFICE: Perth	DRAWN BY: RW	Targeted Contamination Assessment	Drawing No: 3
	SCALE: As shown	DATE: April 2017	Lot 3 Helena Valley Road, Hazelmere, WA	Revision: 0

TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408047
NORTHING: 6469042

PIT No: TP101
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling with a trace of bitumen pieces and fine to medium sized laterite gravel, dry.	B D E	0.0		No PACM observed.								
	0.3													
	0.5	FILLING (SAND) - grey, fine to medium grained sand filling with some bricks and brick pieces, dry.	B D E	0.5		PACM observed.								
	0.7	CLAYEY SAND - orange-brown, fine to medium grained clayey sand, dry.	B D E	0.7										
	2.3	Pit discontinued at 2.3m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408053
NORTHING: 6469023

PIT No: TP102
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - grey-orange, fine to medium grained clayey sand filling with a trace of brick pieces, dry. - with some rootlets to 0.1 m. - becoming orange-brown from 0.15 m.	B D E			No PACM observed.								
	0.4	FILLING (SAND) - grey-brown, fine to medium grained sand filling with some bricks and pieces of brick, concrete and metal, dry. - becoming dark grey-black from 0.8 m.	B D E			PACM observed.								
	0.9	CLAYEY SAND - light grey mottled orange, fine to medium grained clayey sand, dry.	E											
	2.0	Pit discontinued at 2.0m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 16 AHD
EASTING: 408053
NORTHING: 6469004

PIT No: TP103
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing			Water	Dynamic Penetrometer Test (blows per mm)						
				Type	Depth	Sample		Results & Comments	5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling, dry. - with some rootlets to 0.1 m.	B D E			No PACM observed.								
	0.5	FILLING (SAND) - orange, fine to medium grained sand filling with bricks, dry.	B D E			No PACM observed.								
	1.0	CLAYEY SAND - red mottled orange, fine to medium grained clayey sand, dry.	B E			No PACM observed.	1							
	2.4	Pit discontinued at 2.4m (slow digging).					2							
	3.0						3							

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408066
NORTHING: 6469046

PIT No: TP104
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)									
				Type	Depth	Sample	Results & Comments		5	10	15	20						
	0.0	FILLING (SAND) - brown, fine to medium grained sand filling with some bricks and pieces of concrete and metal, dry.	B D E				PACM observed.											
	0.6	CLAYEY SAND - brown-yellow, fine to medium grained clayey sand, dry.	E				No PACM observed.											
	1.0		B E															
	2.2	SANDY CLAY - grey mottled yellow, low plastic sandy clay, dry.	E															
	3.3	Pit discontinued at 3.3m (slow digging).																

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408085
NORTHING: 6469046

PIT No: TP105
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling, dry. - with some rootlets to 0.1 m.	B D E			No PACM observed.								
	0.6	FILLING (SAND) - grey, fine to medium grained sand filling with some bricks and concrete pieces, dry.	B D E			PACM observed.								
	1.6	CLAYEY SAND - yellow-orange, fine to medium grained clayey sand, dry.	B E			No PACM observed.								
	2.5	Pit discontinued at 2.5m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408107
NORTHING: 6469046

PIT No: TP106
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
	0.0	FILLING (CLAYEY SAND) - brown-yellow, fine to medium grained clayey sand filling, dry.	B D E			No PACM observed.							
	0.3	FILLING (SAND) - grey-brown, fine to medium grained sand filling with some bricks and pieces of brick, concrete and bitumen, dry.	B D E			No PACM observed.							
	0.5	CLAYEY SAND - yellow-orange, fine to medium grained clayey sand, dry.	B D E										
	0.6		E										
	1.0												
	1.7	- becoming yellow mottled red from 1.7 m.											
	2.0	Pit discontinued at 2.0m (slow digging).											
	2.0												
	3.0												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (cpm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	gp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	

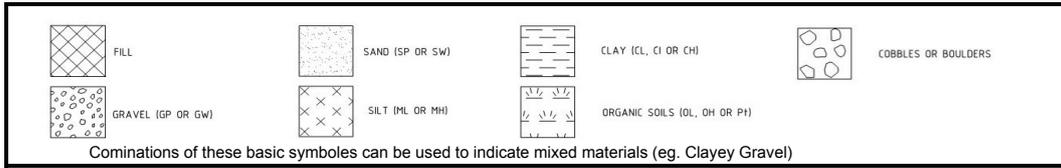


Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix C – JDSi Test Pit Logs

EXPLANATORY NOTES - SOIL DESCRIPTION

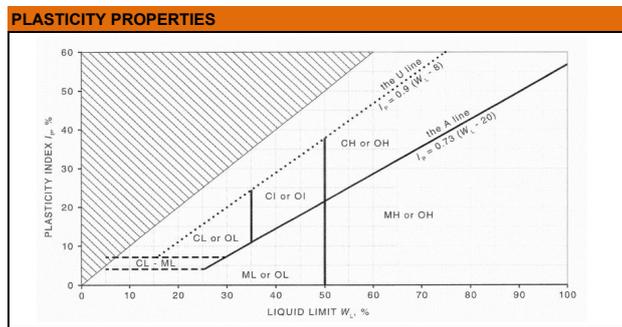


GP	Poorly Graded Gravel	SM	Silty Sand	CH	High Plasticity Clay
GW	Well Graded Gravel	SC	Clayey Sand	OL	Organic Soils (LP)
GM	Silty Gravel	ML	Low Plasticity Silt	OH	Organic Soils (HP)
GC	Clayey Gravel	MH	High Plasticity Silt	PT	Peat
SP	Poorly Graded Sand	CL	Low Plasticity Clay	Describe	Cobbles and Boulders
SW	Well Graded Sand	CI	Medium Plasticity Clay	Fill	Fill

SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY
 Soil descriptions are based on AS1726:2017, Section 6.2. Material properties are assessed in the field by visual/tactile methods in combination with field testing techniques (where used).

PARTICLE SIZE

Soil Name	Particle Size (mm)	
BOULDERS	>200	
COBBLES	63 to 200	
GRAVEL	Coarse	20 to 63
	Medium	6 to 20
	Fine	2 to 6
SAND	Coarse	0.6 to 2.0
	Medium	0.2 to 0.6
	Fine	0.075 to 0.2
FINES	SILT	0.002 to 0.075
	CLAY	<0.002



MINOR COMPONENTS

TERM	ASSESSMENT GUIDE	PROPORTION OF MINOR COMPONENT IN:
Trace of	Presence just detectable by feel or eye, but soil properties little or no different to general properties of primary component.	Coarse grained soils: <5% Fine grained soils: <15%
With some	Presence easily detected by feel or eye, soil properties little different to general properties if primary component.	Coarse grained soils: 5 - 12% Fine grained soils: 15 - 30%

RESISTANCE TO EXCAVATION

Symbol	Term	Description
VE	Very easy	All resistances are relative to the selected method of excavation.
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION AS1726-1993

Symbol	Term	Description
D	Dry	Sands and gravels are free flowing. Clays and silts may be brittle or friable and powdery
M	Moist	Soils are darker than in the dry condition and may feel cool. Sands and gravels tend to cohere.
W	Wet	Soils exude free water. Sands and gravels tend to cohere.

CONSISTENCY AND DENSITY AS1726-1993

Symbol	Term	Undrained Shear Strength (kPa)	SPT "N"	DCP blows per 100mm	Symbol	Term	Density Index (%)	SPT "N"	DCP blows per 100mm	PSP blows per 300mm
VS	Very soft	0 to 12	0 to 2	<1	VL	Very Loose	<15	0 to 4	<1	0 to 2
S	Soft	12 to 25	2 to 4	<1	L	Loose	15 to 35	4 to 10	1 to 2	2 to 6
F	Firm	25 to 50	4 to 8	1 to 2	MD	Medium Dense	35 to 65	10 to 30	2 to 3	6 to 8
St	Stiff	50 to 100	8 to 15	3 to 4	D	Dense	65 to 85	30 to 50	4 to 8	8 to 15
VSt	Very Stiff	100 to 200	15 to 30	5 to 10	VD	Very Dense	>85	>50	>8	>15
H	Hard	>200	>30	>10	Note: PSP correlations only valid 450mm depth					

Consistency and density may also be inferred from excavation performance and material behaviour.

EXCAVATION				MATERIAL			
DEPTH (m)	Elevation (m AHD)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
0.0				FILL: Mixture of brick, sand and silt / clay. Fine to coarse grained sand, low to medium plasticity clay, brown, red brown and black mottled.			Predominantly brick. Roots observed in base of layer.
0.5					M		
1.0				CLAYEY SAND: Fine to coarse grained, yellow, low plasticity clay.			
1.5			SC		M	D	
1.70m				SANDY CLAY: Low to medium plasticity, yellow grey, fine to coarse grained sand.			
1.80m			Cl		M	F	
2.0				Hole Terminated at 1.80 m Target depth			
2.5							
3.0							

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper SUPPORT T Timbering	PENETRATION  No Resistance WATER  10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
---	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP1
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407773
 NORTHING (m): 6468939
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

EXCAVATION				MATERIAL				
NE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered	B	0.00 0.5 1.0 1.5 2.0 2.5 3.0	SP-SC Cl	0.10m TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand. SAND: Fine to coarse grained, grey, becoming clayey in base. 0.70m CLAY: Low to medium plasticity, orange brown and grey mottled, fine to coarse grained sandy in part. 2.10m Hole Terminated at 2.10 m Target depth	M	M, D	Trace of rootlets and roots up to 20mm diameter throughout.

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION WATER 10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP2

PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley

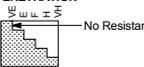
DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 408013
 NORTHING (m): 6468977

EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:

DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

JDS LIBRARY REV 1.0 L8 Log JDS TEST PIT JDS 161188 - GNT.LOSS.GPJ - <DrawingFile> - 28/03/2017 15:49 8 30.0M. D:\gnt.Loss\Drawings\Sub\108 - DGG1.L8.JDS 100.2015.12.09.P1.JDS1.1.00.2015.12.09

EXCAVATION				MATERIAL			
VE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0.0		TOPSOIL / FILL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	M	Large block of concrete 80cm across excavated from this layer.
			0.5		FILL / SANDY CLAY: Low plasticity, brown, fine to coarse grained sand, with some concrete blocks and bricks (up to 20mm), trace of fine to coarse grained gravel.	M	
			1.0		FILL: Mixture of sand and brick, grey, fine to coarse grained sand, trace of plastics, wire, steel drum, wood, concrete pipe.	M	
			2.0	Cl	CLAY: Medium plasticity, brown.	M St	Possible natural ground. Difficult to access due to collapse of test pit. Layer description based on material observed on teeth of backhoe bucket.
			2.20		Hole Terminated at 2.20 m Collapse		
			2.5				
			3.0				

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP3
 PAGE: 1 OF 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407968
 NORTHING (m): 6468994
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

EXCAVATION				MATERIAL				
VE PENETRATION	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
			0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D		Grass at surface.
			0.10m		FILL: Mixture of bricks and sand. Fine to coarse grained, sub-angular sand, brown, trace of low plasticity fines, trace of rope, wire, glass.			Rootlets throughout.
	No Support		0.50m					
	Not Encountered	B	1.0			D		
			1.50m					
			1.80m					
		B	2.0		SANDY CLAY: Low to medium plasticity, yellow grey, fine to coarse grained sand.	M	F to St	Depth to natural soil varies across the side wall of test pit between 1.4m and 2.1m.
			2.00m					
			2.20m		Hole Terminated at 2.20 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP4
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407851
 NORTHING (m): 6468937
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

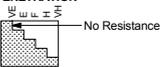
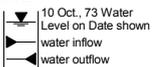
EXCAVATION				MATERIAL				
NE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support		0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D		Roots and rootlets up to 100mm visible between 0 and 0.5m depth.
	Not Encountered		0.10m	CL	SANDY CLAY: Low to medium plasticity, yellow, fine to coarse grained sand.	M	St to VS _L	
			0.50m		CLAY: Medium plasticity, yellow grey mottled, with some fine to coarse grained sand, trace of iron staining.			
		B	1.00m					
			1.50m	CI		M	St to VS _L	
			2.0m					
			2.30m		Hole Terminated at 2.30 m Target depth			
			2.5m					
			3.0m					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VS _L - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP5
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407812
 NORTHING (m): 6468935
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

TEST PIT NUMBER: TP6				JDSi GROUND ENGINEERING					
PAGE: 1 of 1				PROJECT NUMBER: JDS161188					
PROJECT NAME: Proposed Subdivision				EQUIPMENT: JCB 3CX					
PROJECT LOCATION: Helena Valley				DATE STARTED: 28/03/2017					
DATUM: MGA94 Zone 50				EXCAVATION LENGTH: 3 m					
ELEVATION:				EXCAVATION WIDTH: 1 m					
EASTING (m): 407796				LOGGED BY: JC					
NORTHING (m): 6468951				EXCAVATION ORIENTATION:					
CHECKED BY: RM									
EXCAVATION			MATERIAL						
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations	
	No Support Not Encountered		0.0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D			
			0.10m		FILL: Mixture of sand and bricks. Sand is fine to coarse grained, grey red.	D			
			0.40m		FILL: Mixture of clay and bricks. Clay is medium plasticity, brown and dark grey.	M			
			0.90m		CLAY: Medium plasticity, grey and brown mottled, with some fine to coarse grained sand.	M	St		
			2.30m		Hole Terminated at 2.30 m Target depth				
			2.5						
			3.0						
METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper SUPPORT T Timbering		PENETRATION  No Resistance WATER 10 Oct., 73 Water Level on Date shown  water inflow water outflow		SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test		CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet		CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense	
See Explanatory Notes for details of abbreviations & basis of descriptions.									

File: JDS161188 TP6 1 OF 1

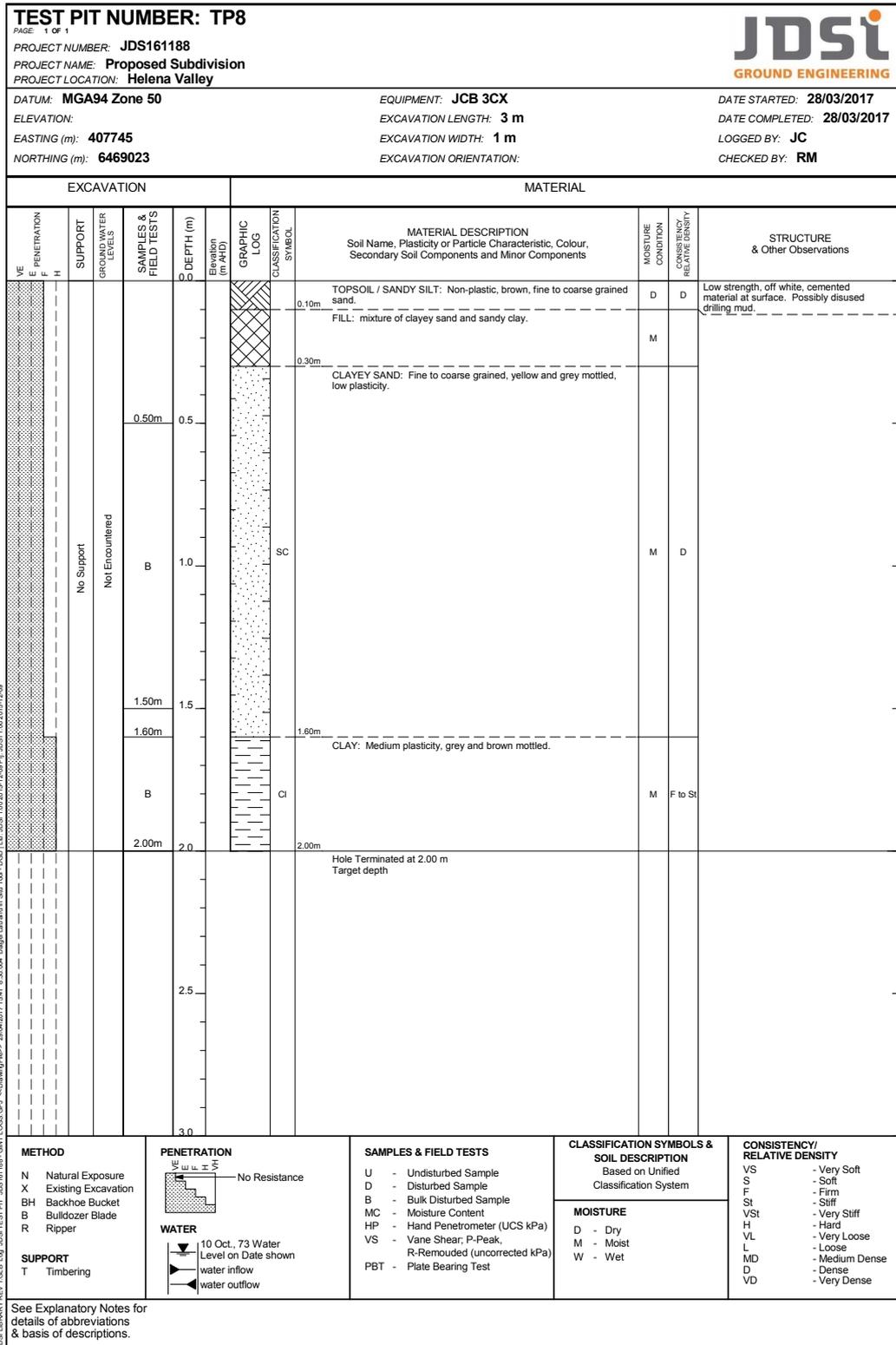
EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0.0		FILL / CLAYEY SAND: Fine to coarse grained, dark grey and red brown, low plasticity clays, trace of plastic, rope and bricks. Pockets of crushed brick visible.	M		Fill varies from 0.4m to 0.9m thick across test pit.
			0.40m		SAND: Fine to medium grained, yellow grey.	M	D	
			0.70m		SANDY CLAY: Low to medium plasticity, yellow grey orange mottled, fine to coarse grained sand.	M	VSt	
			1.0	 Fine to coarse grained, grey sand lense 50mm thick at 1.1m.	M		
			1.50m		Hole Terminated at 1.50 m Refusal			
			2.0					
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper SUPPORT T Timbering	PENETRATION  No Resistance WATER  10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
---	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

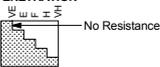


TEST PIT NUMBER: TP7
 PAGE: 1 OF 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407770
 NORTHING (m): 6468973
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 2.5 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM



File: JDS161188 TP8 1 OF 1

EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	M		
			0.10m		FILL: Interbedded layers of sand and clay. Fine to coarse grained, pale grey sand. Medium plasticity, orange brown clay. Trace of brick fragments and concrete throughout.	M		
			0.50m		CLAYEY SAND: Fine to coarse grained, yellow and grey mottled, low plasticity clay, weakly cemented.	M	D	
			1.30m		CLAY: Medium plasticity, grey brown mottled.	M	F	
			2.20m		Hole Terminated at 2.20 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP9
 PAGE: 1 OF 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407777
 NORTHING (m): 6469022
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

EXCAVATION				MATERIAL					
NE PENETRATION	SUPPORT	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	MOISTURE CONDITION	STRUCTURE & Other Observations		
<p>TEST PIT NUMBER: TP11 PAGE: 1 of 1 PROJECT NUMBER: JDS161188 PROJECT NAME: Proposed Subdivision PROJECT LOCATION: Helena Valley</p> <p>DATUM: MGA94 Zone 50 ELEVATION: EASTING (m): 407744 NORTHING (m): 6469075</p> <p>EQUIPMENT: JCB 3CX EXCAVATION LENGTH: 3 m EXCAVATION WIDTH: 1 m EXCAVATION ORIENTATION:</p> <p>DATE STARTED: 28/03/2017 DATE COMPLETED: 28/03/2017 LOGGED BY: JC CHECKED BY: RM</p>				<p>JDSi GROUND ENGINEERING</p>					
<p>VE E F H</p>	<p>GROUND WATER LEVELS</p> <p>No Support Not Encountered</p>	<p>DEPTH (m)</p> <p>Elevation (m AHD)</p>	<p>0</p> <p>0.5</p> <p>1.0</p> <p>1.5</p> <p>2.0</p> <p>2.5</p> <p>3.0</p>	<p>CLASSIFICATION SYMBOL</p> <p>0.10m</p> <p>1.40m</p> <p>2.10m</p> <p>Cl</p>	<p>MATERIAL DESCRIPTION</p> <p>Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components</p> <p>TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.</p> <p>FILL / SANDY CLAY / CLAYEY SAND: Low to medium plasticity, fine to coarse grained, red brown, with some bricks throughout, trace of cloth and rope.</p> <p>SANDY CLAY: Low to medium plasticity, yellow grey mottled, fine to coarse grained sand.</p> <p>Hole Terminated at 2.10 m Target depth</p>	<p>M</p> <p>M</p> <p>M</p> <p>St</p>	<p>STRUCTURE & Other Observations</p> <p>Grass at surface.</p> <p>Roots up to 30mm diameter throughout layer. Layering visible.</p>		
<p>METHOD</p> <p>N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper</p> <p>SUPPORT</p> <p>T Timbering</p>		<p>PENETRATION</p> <p>No Resistance</p> <p>WATER</p> <p>10 Oct., 73 Water Level on Date shown water inflow water outflow</p>		<p>SAMPLES & FIELD TESTS</p> <p>U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test</p>		<p>CLASSIFICATION SYMBOLS & SOIL DESCRIPTION</p> <p>Based on Unified Classification System</p> <p>MOISTURE</p> <p>D - Dry M - Moist W - Wet</p>		<p>CONSISTENCY/ RELATIVE DENSITY</p> <p>VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense</p>	
<p>See Explanatory Notes for details of abbreviations & basis of descriptions.</p>									

File: JDS161188 TP11 1 OF 1

EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support No Encountered	B	0.50m 1.40m	SC	FILL / CLAYEY SAND: Fine to coarse grained, red brown, medium plasticity clay, crushed brick. CLAYEY SAND: Fine to coarse grained, yellow grey mottled, low plasticity clays.	M	D	
			1.50m	Cl	CLAY: Medium plasticity, yellow grey mottled.	M	St	
			1.80m		Hole Terminated at 1.80 m Target depth			
			2.0m					
			2.5m					
			3.0m					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix D – Laboratory Test Results



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_49
 SAMPLE NO.: 73
 CLIENT REFERENCE: TP5 - 1.0m to 1.5m
 DATE TESTED: 10.04.2017
 SAMPLE DESCRIPTION: Clay
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	61 %
PLASTIC LIMIT	24 %
PLASTICITY INDEX	37 %
LINEAR SHRINKAGE	11.0 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.
 Curling & Cracking present in Linear Shrinkage



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR **TECHNICAL COMPETENCE**

Approved

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_49_1 ISSUE 1

EXCELICAL.CIPL_ATTER [149_49pt] REV 002 DATE: 24.10.2014



MATERIALS CONSULTANTS PTY. LTD.

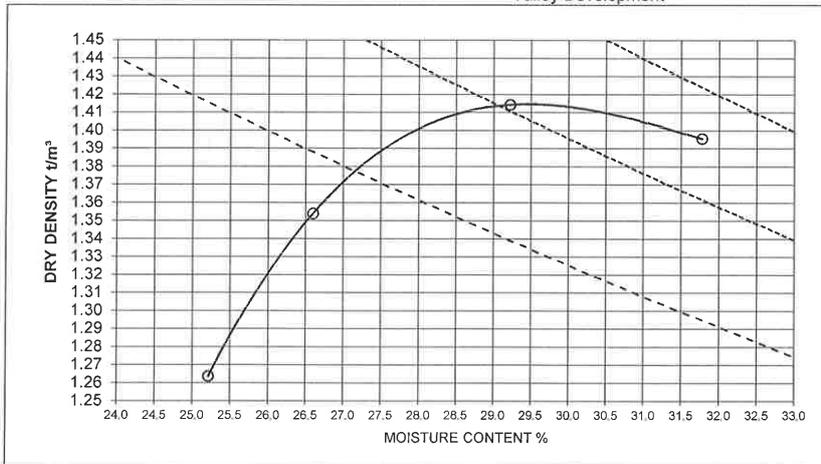
INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

**DETERMINATION OF THE DRY DENSITY/MOISTURE CONTENT RELATIONSHIP
OF A SOIL USING STANDARD COMPACTIVE EFFORT: AS1289.5.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_49
 SAMPLE NO.: 73
 CLIENT REFERENCE: TP5 - 1.0m to 1.5m
 DATE TESTED: 06.04.2017
 SAMPLE DESCRIPTION: Clay
 FEATURE: -
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development



MAXIMUM DRY DENSITY	1.42 t/m ³
OPTIMUM MOISTURE CONTENT	29.5 %
PER CENT RETAINED 19.0 mm SIEVE	0 %
PER CENT RETAINED 37.5 mm SIEVE	0 %

SAMPLING PROCEDURES: Tested as received.
 REMARKS: Type A Mould (1 litre) used for this test.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

APPROVED: 
 M Snow, Signatory

DATE : 11.04.2017

CERTIFICATE NO. MC 149_49_2

ISSUE 1

EXCELICALCIMDDASS!!! [149_49mdd] REV 005 DATE 08.10.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

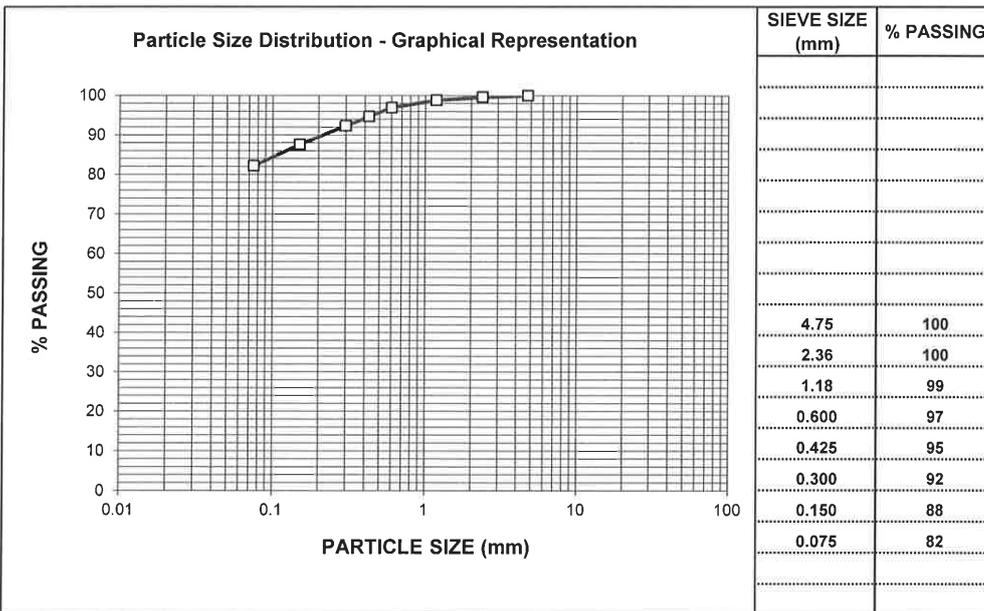
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_49
 SAMPLE NO. : 73
 CLIENT REFERENCE : TP5 - 1.0m to 1.5m
 DATE TESTED : 05.04.2017 & 11.04.2017
 SAMPLE DESCRIPTION : Clay
 PROJECT : JDSi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025
 ACCREDITED FOR TECHNICAL COMPETENCE

Approved: 
 M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_49_3

ISSUE 1

EXCELICALC\MC_SS236 [149_49psd] REV 002 DATE: 08.12.2015



MATERIALS CONSULTANTS PTY. LTD.

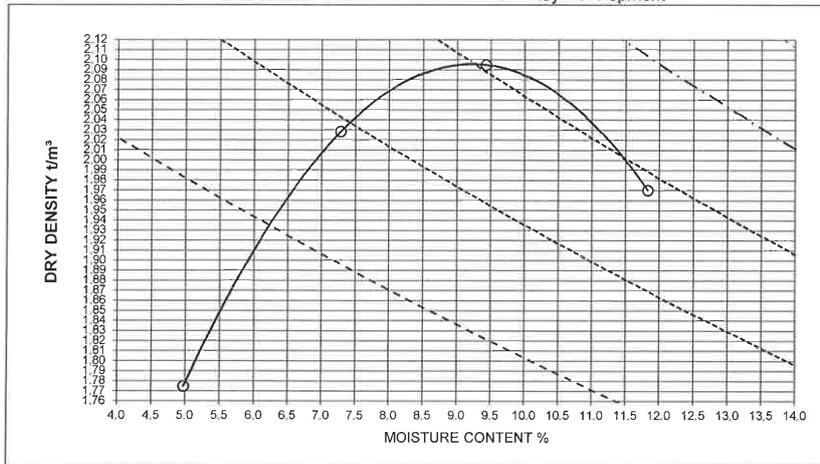
INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

**DETERMINATION OF THE DRY DENSITY/MOISTURE CONTENT RELATIONSHIP
OF A SOIL USING MODIFIED COMPACTIVE EFFORT : AS1289.5.2.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_50
 SAMPLE NO.: 74
 CLIENT REFERENCE: TP8 - 0.5m to 1.5m
 DATE TESTED: 03.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 FEATURE: -
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development



MAXIMUM DRY DENSITY 2.10 t/m³
OPTIMUM MOISTURE CONTENT 9.0 %
PER CENT RETAINED 19.0 mm SIEVE 0 %
PER CENT RETAINED 37.5 mm SIEVE 0 %

SAMPLING PROCEDURES: Tested as received.

REMARKS: Type A Mould (1 litre) used for this test.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

APPROVED

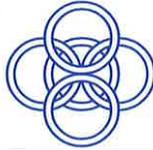
M Snow, Signatory

DATE : 11.04.2017

CERTIFICATE NO. MC 149_50 _1

ISSUE 1

EXCELICALC\MDDAS5!!! [149_50mtd] REV 005 DATE 08.10.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

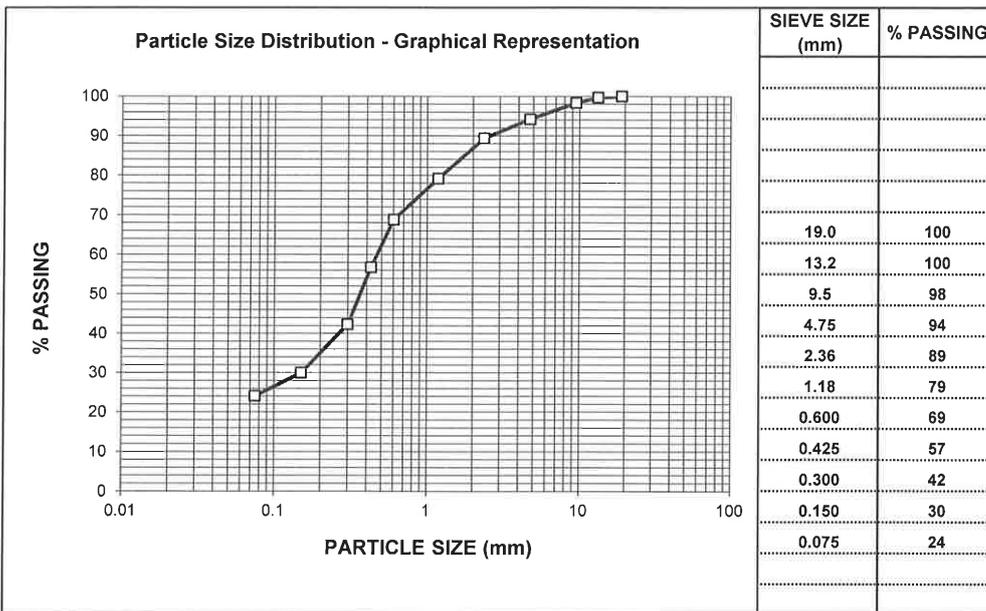
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_50
 SAMPLE NO. : 74
 CLIENT REFERENCE : TP8 - 0.5m to 1.5m
 DATE TESTED : 03.04.2017
 SAMPLE DESCRIPTION : Clayey Sand
 PROJECT : JDSi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

Approved:

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_50_2

ISSUE 1

EXCEL\CALC\MCP19_23 [149_50psd] REV 003 DATE: 30.11.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_50
 SAMPLE NO.: 74
 CLIENT REFERENCE: TP8 - 0.5m to 1.5m
 DATE TESTED: 07.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	28 %
PLASTIC LIMIT	14 %
PLASTICITY INDEX	14 %
LINEAR SHRINKAGE	6.5 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR **TECHNICAL COMPETENCE**

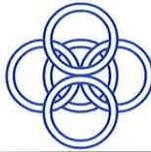
Approved

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_50_3 ISSUE 1

EXCEL\CALC\PI_ATTER [149_50pi] REV 002 DATE: 24.10.2014



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

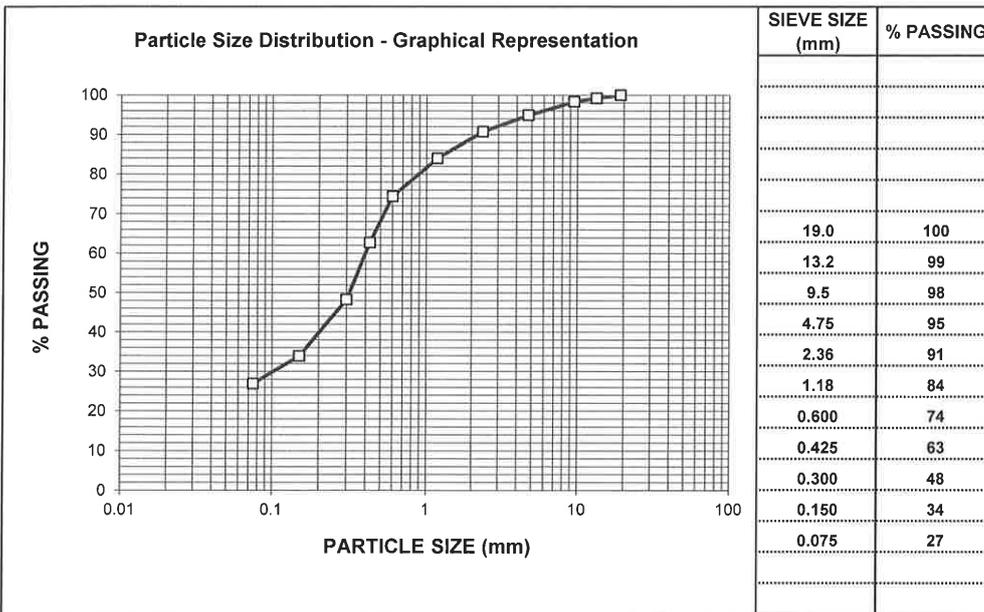
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_51
 SAMPLE NO. : 75
 CLIENT REFERENCE : TP12 - 0.5m to 1.4m
 DATE TESTED : 05.04.2017 & 11.04.2017
 SAMPLE DESCRIPTION : Clayey Sand
 PROJECT : JSDi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025
 ACCREDITED FOR TECHNICAL COMPETENCE

Approved:

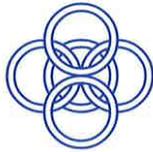
M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_51_1

ISSUE 1

EXCEL\CALC\MC_SS236 [149_51psd] REV 002 DATE: 08.12.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_51
 SAMPLE NO.: 75
 CLIENT REFERENCE: TP12 - 0.5m to 1.4m
 DATE TESTED: 07.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 PROJECT: Quality Control - JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	31 %
PLASTIC LIMIT	12 %
PLASTICITY INDEX	19 %
LINEAR SHRINKAGE	4.5 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR **TECHNICAL COMPETENCE**

Approved

M Snow, Signatory

Date:

11.04.2017

CERTIFICATE NO. MC 149_51_2

ISSUE

1

EXCEL\CALC\PI_ATTER [149_51pi] REV 002 DATE: 24.10.2014



APPENDIX F – GROUNDWATER LICENCE

Development Engineering Consultants Pty Ltd ACN 084 639 887 ATF The DEC Trust

File No:
DWERVT8093Government of **Western Australia**
Department of **Water and Environmental Regulation**Page 1 of 1
Instrument No. CAW206307(1)

LICENCE TO CONSTRUCT OR ALTER WELL

Granted by the Minister under section 26D of the Rights in Water and Irrigation Act 1914

Licensee(s)	Cityplaza Pty Ltd	
Description of Water Resource	Perth Perth - Superficial Swan	
Location of Well(s)	LOT 3 ON PLAN 3958 - Volume/Folio 1409/592 - Lot 3	
Authorised Activities	Activity	Location of Activity
	Construct one non-artesian well(s).	LOT 3 ON PLAN 3958 - Volume/Folio 1409/592 - Lot 3
Duration of Licence	From 1 September 2021 to 31 August 2022	

This Licence is subject to the following terms, conditions and restrictions:

1. The well must be constructed by a driller having a current class 1 water well drillers certificate issued by the Western Australian branch of the Australian Drilling Industry Association or equivalent certification recognised nationally by the Australian Drilling Industry Association.
2. The depth of the well(s) shall be limited to the superficial aquifer.
3. The licensee shall construct the well using materials and methods for single aquifer wells described in 'Minimum construction requirements for water bores in Australia, Fourth Edition, 2020'
4. Any well that is to be permanently decommissioned shall within 30 days of decommissioning, be sealed and filled to prevent the surface entry of contaminants and the vertical movement of water in the well, using methods described in 'Minimum construction requirements for water bores in Australia, Fourth Edition, 2020'

End of terms, conditions and restrictions

This Licence is granted subject to the Rights in Water and Irrigation Regulations 2000.



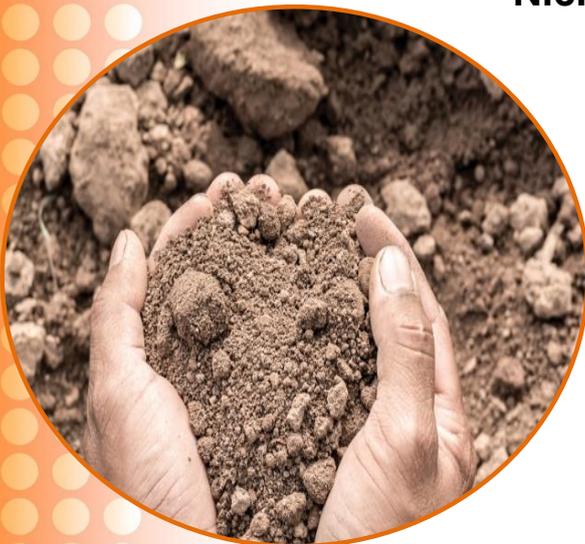
P: 08 9227 0595
F: 08 9227 8617
Level 6, 1 Nash St
Perth WA 6000
PO Box 8523
Perth BC WA 8649
jdsi.com.au

GEOTECHNICAL SITE INVESTIGATION

Lots 2, 3 and 6 Helena Valley Road

Helena Valley

**John Stefanelli, Joe Stefanelli,
Nick Di Candilo and Others**



JDS161188
June 2017

INTEGRITY

We are open, honest, and consistent in our principles and conduct, so we're able to build trusted relationships with our clients and partners.

RESPECT

We treat everyone with respect and dignity and develop relationships founded on understanding and trust.

ACCOUNTABILITY

We always assume responsibility for our actions and make decisions in line with our economic, social, and ethical obligations.

EXCELLENCE

We pursue excellence in everything we do, challenging ourselves to look beyond the obvious and ensure ongoing improvement.

This page has been intentionally left blank.



P: 08 9227 0595
F: 08 9227 8617
Workzone,
Level 6, 1 Nash Street,
Perth WA 6000
PO Box 8523
Perth BC WA 6849
ABN 69 611 127 676
jdsi.com.au

Geotechnical Site Investigation
Lots 2, 3 and 6 Helena Valley Road
Helena Valley

Our ref: JDS161188-R02-Rev2

Prepared for:
John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others
428 Great Northern Highway
Middle Swan, WA 6056

Prepared by:
JDSi Ground Engineering Pty Ltd
Level 6, 1 Nash Street
Perth WA 6000

13 June 2017

Document authorisation

For and on behalf of JDSi Ground Engineering Ltd

A handwritten signature in blue ink, appearing to read 'R. Moyle'.

Dr Richard Moyle
Principal Geotechnical Engineer

Lots 2, 3 and 6 Helena Valley Road
 Geotechnical Site Investigation
 JDS161188-R02-Rev2



Quality information

Revision history

Revision	Description	Date	Author	Reviewer	Signatory
Rev0	DRAFT	28 April 2017	RM	CD	RM
Rev1	Final	23 May 2017	RM	CD	RM
Rev2	Additional information included	13 June 2017	RM	CD	RM

Distribution

Report Status	No. of copies	Format	Distributed to	Date
Rev2	1	PDF	John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others	13 June 2017
Rev2	1	PDF	JDSi Ground Engineering Report Library	13 June 2017

TABLE OF CONTENTS

1	Introduction	6
2	Site history	6
2.1	Summary of historical land use.....	6
2.2	Summary of historical aerial photographs.....	7
2.3	Recent investigation	7
3	Geotechnical investigations.....	9
3.1	Geotechnical investigations.....	9
3.2	Laboratory testing.....	9
4	Results of the geotechnical investigations.....	9
4.1	Published geology	9
4.2	Published Groundwater Data.....	10
4.3	Historic investigations.....	10
4.4	Current geotechnical investigations	11
5	Geotechnical assessment	12
5.1	General	12
5.2	Proposed development.....	12
5.3	Preliminary earthworks strategy.....	13
6	Concluding comments.....	15

TABLES

Table 1 – Extent of laboratory testing	9
Table 2 – Zone description	10
Table 4 – Summary of fill thickness	11

IMPORTANT INFORMATION SHEETS

“Your Geotechnical Report”

FIGURES

Figure 1 – Site Investigation Layout

Figure 2 – Fill Areas

APPENDICES

Appendix A – Douglas Partners Borehole logs

Appendix B – Douglas Partners Test Pit Logs

Appendix C – JDSi Test Pit Logs

Appendix D – Laboratory Test Results

1 Introduction

This report presents the geotechnical site investigation carried out by JDSi Ground Engineering Pty Ltd (JDSi) for John Stefanelli, Joe Stefanelli, Nick Di Candilo and Others (John Stefanelli and Others) for the proposed residential subdivision development located at Lots 2, 3 and 6 Helena Valley Road, Helena Valley. This work was commissioned by Mr John Stefanelli on 19 January via a signed Client Acceptance Form.

The site is rectangular in shape, covering an area of about 13.2 ha and is bound by existing residential development to the east and south of the site and undeveloped land to the west and north. The eastern portion of the site has historically been used for clay extraction and inert landfilling. We understand that the proposed earthworks on the site will consist of small amounts of cut over the site, and between 1m and 3m of fill to be imported to form the final fill level. The approximate subdivision layout and location is shown on **Figure 1**, attached to this report.

JDSi has previously undertaken a desktop review of site, including a site walkover. The intent of the desktop review was to quantify the extent of the fill and (likely) fill constituents. The results of the desktop review are presented in our report (reference: JDS161188-R01-Rev0) dated February 2017.

Emerge Associates Pty Ltd (Emerge) carried out an environmental investigation for the proposed development; during which JDSi was on site to observe materials intersected in test pits, provide engineering logs of the materials encountered and limited geotechnical interpretation.

Emerge has also installed groundwater monitoring wells across the site. JDSi was not on site during the installation of the wells, however the logs of the wells (in the form of thickness of fill) has been provided by Emerge and used in this assessment.

This report, and the information presented herein, must be read in conjunction with the previous desktop study report and JDSi's "Your Geotechnical Report" information sheets attached to this report.

2 Site history

2.1 Summary of historical land use

Based on Emerge report (reference: EP13-031(01)—002) dated August 2015, a summary of the historical land use at the site is as follows:

- ▶ 1912 to 1975 – Site was used as a brick works including clay extraction and brick manufacture;
- ▶ 1975 to 1982 – Site was used for the following operations:
 - Salvage yard;
 - Construction of transportable buildings;
 - Repair and renovation of buildings transported to the site;
 - Recycling of dry demolition rubble and material for resale; and
 - Disposal of dry demolition rubble.
- ▶ 1982 to Present – the site was used for the following operations:
 - An inert landfill from 1982 to 1993;

- A tire shredding facility;
- A hay processing facility for preparing bales for international transport; and
- Currently used as a laydown and storage facility for drilling equipment and machinery.

2.2 Summary of historical aerial photographs

Based on Emerge report (reference: EP13-031(01)—002) dated August 2015, a summary of the historical aerial photographs at the site is as follows:

- ▶ The site was operational as a brick works at the time of the earliest photograph in 1953;
- ▶ A large portion of the site was included in the clay extraction area and formed a large surface water body prior to filling;
- ▶ The void formed by the clay extraction was filled between 1977 and 1995;
- ▶ Since 2000 the site has largely consisted of a laydown and storage area; and,
- ▶ Between 2009 and 2010 additional sand / sandy clay was imported to the north eastern portion of the site and some filling works were completed.

2.3 Recent investigation

On 7 April 2017, JDSi was provided with a geotechnical investigation report by Douglas Partners Pty Ltd (DP) (reference 88790.01 dated February 2017) for a proposed gravity sewer main.

Part of the proposed sewer main traverses the eastern portion of the proposed development along the planned extension to Tuckerroo Parade and Carabeen Avenue. DP undertook six boreholes along this alignment (BH16 to BH19B) and the engineering logs for these holes have been included in **Appendix A** together with the site plan of the investigation. The locations of the DP boreholes have been included on **Figure 1** of this report.

The DP boreholes logs indicate the following:

- ▶ Boreholes BH16, BH17 and BH18 encountered between 0.7 and 1.75m of Fill overlying Clayey Sand to borehole termination depth.
- ▶ Boreholes BH19 and BH19A refused in Fill at depths of 2.7m and 3.7m, respectively. The reason for refusal was reported by DP to be on concrete.
- ▶ Borehole BH19B encountered 4.3m of Fill overlying (natural) Clayey Sands.
- ▶ Groundwater was reported in BH19B at a depth of 3.5m.

On 16 May 2017, JDSi were provided with a subsequent report by DP (reference 88790.03 dated April 2017) for a Targeted Contamination Assessment of the proposed gravity sewer. As part of the May 2017 investigation, DP undertook six test pits along the proposed alignment. The test pit logs and site plans have been included in **Appendix B**. The locations of the DP test pits have been included on **Figure 1** of this report.

The DP test pit logs indicate the following:

- ▶ The test pits encountered between 0.7m and 1.6m of Fill overlying Clayey Sand through to the maximum termination depth of 2.5m.
- ▶ Test pit 104 encountered Sandy Clay between 2.2m and 3.3m.

The results from the April 2017 investigations by DP were significantly different to those reported by DP in February 2017. For example, BH19 and BH19B recorded up to 4.3m of Fill; whereas the only 1.6m was reported by DP in the adjacent test pit (TP105). Similarly DP recorded 3.7m of fill in borehole 19A prior to refusal; whereas DP reported 0.5m of fill in the adjacent test pit (TP106). The DP April 2017 report did not provide specific comment on the variability in thickness of Fill encountered in the different investigations other than noting “*deeper pockets of uncontrolled filling along the sewer along the sewer alignment than those encountered during the test pitting cannot be ruled out*”.

Based on the information provided, JDSi cannot determine the reason for the reported variability in Fill thickness over such short distances. The reason for the variability should be confirmed by DP.

Emerge installed groundwater monitoring wells on 5 May 2017 across the proposed development site, the locations of which is presented on **Figure 1**. A summary of the groundwater wells and the depths of Fill encountered is presented in Table 1.

Table 1 – Summary of groundwater well installation

Groundwater Well	Depth of Fill (m)	Groundwater well	Depth of Fill (m)
MW A	8.0	LFG G	0
MW B	7.8	LFG H	0.05
MW C	2.3	ESB 01	4.2
MW D	0	ESB 02A	4.1
LFG A	2.0	ESB 02B	3.5
LFG B	0.1	ESB 02C	3.1
LFG C	2.0	ESB 03	4.1
LFG D	0	ESB 04	2.2
LFG E	4	ESB 05	0
LFG F	3.9	ESB 06	3.1

Note: All depths reported are metres below ground surface level at the time of installation of the wells.

3 Geotechnical investigations

3.1 Geotechnical investigations

The geotechnical investigations undertaken as part of this study were completed in general accordance with AS 1726 "Geotechnical Site Investigations" and included the excavation of 12 test pits to depths of between 1.5m to 2.6m.

Engineering logs of the materials encountered within the test pits are presented in **Appendix C**, along with explanatory notes of the description methods used.

The locations of the test pits are shown on **Figure 1**, with the overlay of the proposed subdivision layout.

3.2 Laboratory testing

Laboratory testing for the geotechnical investigation was carried out in accordance with the general requirements of AS 1289 by Material Consultants Pty Ltd at their NATA registered soils laboratory.

A summary of the laboratory testing completed for this study is presented in Table 2 and the laboratory test certificates are included in **Appendix D**.

Table 2 – Extent of laboratory testing

Type of Test	Test Method Reference	Number of Tests Completed
Particle Size Distribution	AS 1289.3.6.1	3
Atterberg Limits	AS 1289.3.1.1 – 3.4.1	3
Standard Compaction	AS 1289.5.1.1	1
Modified Compaction (MMDD)	AS1289.5.2.1	1

4 Results of the geotechnical investigations

4.1 Published geology

The 1:50,000 Environmental Geology Series map (Perth) indicates that the site is expected to be underlain by pebbly silt of the Guildford Formation. This unit is described as "strong brown silt with common, fine to occasionally coarse-grained, sub-rounded laterite quartz, heavily weathered granite pebble, some fine to medium quartz sand of alluvial origin".

The map also indicates the presence of quarry of pit activity and a lake feature in the in the north eastern portion of the site.

4.2 Published Groundwater Data

The Perth Groundwater Map (<http://www.water.wa.gov.au/>) provides historical groundwater contours for the Perth Metropolitan area. This dataset indicates that groundwater levels were at about 8m to 9m AHD in 2003 (end of summer) which is about 6m to 7m below existing site levels.

It must be noted that the depth of groundwater and localised groundwater response will have been altered by the historic land use. Fluctuations in groundwater levels must be expected.

4.3 Historic investigations

WorleyParsons Services Pty Ltd (WorleyParsons) completed a number of geotechnical and environmental investigations at the site during which the boundaries of the former inert landfill were defined. The depth of the pit prior to backfilling is unknown and estimated to have a depth of between 10 and 20m, but possibly deeper.

The results of the most recent WorleyParsons investigation divide the site into zones. A summary of the zones is provided in Table 3.

Table 3 – Zone description

Zone	Zone Description
Zone 1	Deep Fill Area: Excavation/backfilled area; comprising highly variable and highly compressible uncontrolled fill to depths exceeding 3.0m. The uncontrolled fill in this zone is understood to comprise a variety of deleterious materials including concrete, bricks, plastic, tyres, rubber, steel and other miscellaneous debris;
Zone 1.5	Excavation/backfilled area; comprising highly variable and highly compressible uncontrolled fill up to a maximum depth of 1.5m. The uncontrolled fill in this zone is consistent with Zone 1 but is shallow in depth;
Zone 2	Non-excavated/backfilled area: a transition area between the boundary of the former excavation and where small amounts of uncontrolled fill were placed beyond the edge of the excavation overlying the natural ground surface. The uncontrolled fill in this zone comprises predominately brick fragments and concrete. The maximum depth of fill encountered during investigation of Zone 2 was 1.8m;
Zone 2a	Generally similar in characteristics to Zone 2, however fill material associated with the previous brick works operation were identified to a maximum depth of 7.0m in borehole MW_07_01;
Zone 3	Natural Ground: Non-excavated/non backfilled area: defined as an area outside the boundaries of any fill placement. This was assumed to be natural ground at the site; and
Zone 4	Inaccessible area; no investigation was possible in this area due to the presence of dense vegetation and disused machinery. There is evidence of previous earthmoving activities in this zone, therefore the potential presence of fill should be considered for future development.

Zone boundaries in relation to the proposed subdivision layout are included in our desktop report dated February 2017. Also included in our desktop report are geological descriptions of each zone.

4.4 Current geotechnical investigations

Overview

Based on the geotechnical investigations undertaken, the typical profile encountered comprised of uncontrolled fill overlying medium plasticity Clay. Some of the test pits intersected Sandy Clay overlying the medium plasticity Clay.

A summary of the thicknesses of the uncontrolled fill materials encountered during the JDSi and DP investigations is presented in Table 4.

Table 4 – Summary of uncontrolled fill thickness

Test Pit	Thickness of Fill (m)	Test Pit	Thickness of Fill (m)
TP1	1	TP7	0.4
TP2	0	TP8	0.3
TP3	2	TP9	0.5
TP4	1.8	TP10	>2.6
TP5	0	TP11	1.4
TP6	0.9	TP12	0.2
DP BH16	0.75	DP TP101	0.7
DP BH17	0.7	DP TP102	0.9
DP BH18	1.75	DP TP103	1.0
DP BH19	>2.7m	DP TP104	0.6
DP BH19A	>3.7m	DP TP105	1.6
DP BH19B	4.3m	DP TP106	0.5

Groundwater was not intersected during the recent geotechnical investigation. Historic information presented by Worley Parsons (included in the JDSi desktop study report) indicates that groundwater was encountered approximately 5m below ground surface level. More recent groundwater monitoring by Emerge indicates that groundwater depth could vary from approximately 0.1m to 2.5m below ground surface level.

As noted previously, groundwater depths must be expected to vary due to subsurface conditions, climatic conditions and earthworks.

Uncontrolled Fill material

The Uncontrolled Fill material intersected consisted of a mixture of construction rubble (such as bricks, concrete, steel, gravels etc.), sands and clay.

Natural profile

The natural profile consists of a low plasticity Sandy Clay (or Clayey Sand), of varying thickness, overlying a medium plasticity Clay.

During wetter months, groundwater is expected to perch at the boundary between the Fill and natural profile, particularly with the nature of the Fill. This could possibly explain the difference in groundwater levels recorded by Emerge and WorleyParsons.

5 Geotechnical assessment

5.1 General

Based on our review of the client supplied information, the geotechnical investigations completed and our understanding of the proposed development, the proposed development has been delineated into three areas, based on the subsurface conditions.

These are:

- ▶ **Natural Areas:** Natural Areas are parts of the site where no fill material has been intersected, or the fill will be removed during the bulk earthworks phase;
- ▶ **Shallow Fill Areas:** Shallow Fill Areas contain uncontrolled fill material where the thickness is less than 1m;
- ▶ **Filled Areas:** Filled Areas contain uncontrolled fill material where the thickness is more than 1m but less than 2m; and,
- ▶ **Deep Fill Areas:** Deep Fill Areas contain uncontrolled fill material where the thickness is greater than 2m.

The delineation of these areas is presented on **Figure 2**.

5.2 Proposed development

The layout of the proposed development has been provided for this report, however consideration will need to be given to the following key elements:

- ▶ Proposed Site Classification in accordance with AS 2870 – 2011 "*Residential Slabs and Footings*" for the proposed development and cost / benefit analysis of varying the lots;
- ▶ Proposed levels of the development, including thickness of fill materials;
- ▶ Acceptance of caveats on the lots (such as limitations on the depth of excavations, for example);
- ▶ Performance expectation of the roads and any limitation on the use of construction materials beneath roads from ultimate asset owners (crushed brick or concrete, for example);
- ▶ Proposed sewer alignment, including depth of sewer;

- ▶ Proposed stormwater management system and development requirements; and
- ▶ Timing and interaction with surrounds, including proposed sewer alignment noted in the DP February 2017 report.

5.3 Preliminary earthworks strategy

Bearing in mind that the refinement of the development, as noted in Section 5.2, the following earthworks strategy has been provided for the different fill areas.

It should be noted that all fill work noted below should be undertaken using clean inert fill and placed and compacted in accordance with the requirements of AS 3798 – 2007 “*Guidelines on Earthworks for Commercial and Residential Developments*”.

Natural Areas

Based on the WorleyParsons report, the natural materials at the site would be expected to result in a **Class M** site in accordance with AS 2870 – 2011 “*Residential Slabs and Footings*”.

According to WorleyParsons, the site classification could be amended to a **Class S** with the addition of at least 1.2m of compacted clean sand fill over the natural soil profile. To achieve a **Class A** site, at least 1.8m of clean sand fill would be required over the natural soil profile.

Shallow Fill Areas

In areas containing <1m of uncontrolled fill preference would be given to excavation of the uncontrolled fill material and placement in the northern areas of the site (away from the proposed development). This would allow lots to be developed as a “natural” lot, with structural fill placed to the design surface level.

Where this is not possible (due to environmental or economic reasons); or where the thickness of structural fill will be >1.8m, consideration could be given to impact rolling the area to compact the uncontrolled fill. An engineering specified geofabric layer would then need to be placed over the compacted uncontrolled fill and material imported to fill the site to the design surface level.

An economic assessment should be undertaken by the Civil Engineer appointed to design the works and should consider the effect of “non-geotechnical” issues of leaving existing fill materials in place. Specialist environmental advice should also be sought from an Environmental Consultant in regards to any issues associated with excavation and placement of uncontrolled fill materials in other parts of the site (away from the development).

Consideration would need to be given to the potential intersection of services with the geofabric layer and fill areas (containing building rubble).

Filled Areas

Based on our experience, in areas where the uncontrolled fill thickness is >2m, it is uneconomical to excavate and replace this material. This assumption should be reviewed / considered from both an economic and environmental point of view.

Assuming that the uncontrolled fill will be left in place, the uncontrolled fill materials could be proof rolled and treated using an impact roller over the entire area to compact and improve the load bearing properties of the uncontrolled fill. As per the Shallow Fill Area, an engineering specified geofabric layer should be placed over the impact rolled areas prior to filling the site to the design levels with approved structural fill.

The amount of settlement induced by the proof rolling process will be highly variable as it depends on the nature of the material and the manner in which it was placed. Typically, the amount of settlement could be up to 5% of the fill thickness. This would need to be confirmed by site trials.

Depending on the thickness of approved structural fill to be placed (i.e. the distance between existing surface level and the design surface levels), the following points should be considered:

- ▶ A surface corridor should be excavated and backfilled with approved structural fill during the bulk earthworks phase. This will allow civil services to be constructed in “clean” fill (rather than the uncontrolled fill on site);
- ▶ Where the thickness of approved structural fill will be less than 2m, consideration should be given to over-excavating the uncontrolled fill and replacing it with approved structural fill. This option would need to be assessed by the Civil Engineer who should consider the economic viability of undertaking the over-excavation works.
- ▶ A compacted limestone layer and/or an engineering specified geogrid layer could be included where the thickness of approved structural fill will be less than 2m to provide a stiffer “soil raft” for the development.
- ▶ Where the thickness of approved structural fill will be greater than 2m, “*alternative fill materials*” may be used provided they are placed >2m from design finish level. The “*alternative fill materials*” could be screened / processed uncontrolled fill; clay fill or other potential sources. It is recommended that the specification and compaction requirements of the “*alternative fill materials*” be reviewed on a lot-specific and material specific basis.
- ▶ The Civil Engineer and Environmental Consultant would need to provide advice on potential caveats on titles (depending on the depth of approved structural fill and inclusion of “*alternative fill materials*”);
- ▶ Location of soakwells and interaction with geofabric layer; uncontrolled fill or deep fills.

Deep Fill Areas

The Deep Fill Areas are limited to a discrete areas that would affect the proposed northern road alignment, and three or four housing lots.

Based on recent discussions about the earthworks strategy for the proposed development, the following is recommended:

- ▶ Excavation of the deep fill areas to nominally 2m above the base of the fill;
- ▶ Impact rolling over the excavated areas, and any loose areas excavated and replaced with clean fill;
- ▶ A surface corridor should be excavated and backfilled with approved structural fill during the bulk earthworks phase. This will allow civil services to be constructed in “clean” fill (rather than the uncontrolled fill on site);
- ▶ Bulk earthworks to be undertaken to backfill the site to the design surface level. The upper 2m (at least) should be approved structural fill. As for the Filled Areas, “*alternative fill materials*” may be incorporated into the profile provided they are placed to an appropriate earthworks specification and located at a depth of more than 2m below design surface level.

6 Concluding comments

The final selection of the geotechnical strategy for the proposed development will be dependent upon environmental consideration (such as the disposal of fill elsewhere on site) and the financial feasibility of the earthworks strategy.

We understand that detailed review of the earthworks strategy (and feasibility) will be undertaken by the Civil Engineer (McDowall Affleck Pty Ltd) as part of the project. Other points to note regarding the earthworks strategy include:

- ▶ Topsoil materials should be stripped and stockpiled in accordance with the requirements of the Superintendent. Topsoil material is typically not suitable for use as approved structural fill.
- ▶ The requirements for grading of clay layers and the need for any subsoil drainage should be designed by the Civil Engineer.
- ▶ The earthworks specification would need to be developed specifically for the material being used as approved structural fill. “*Alternative fill materials*” would need to be clearly defined regarding their engineering properties, placement in the (subsurface) profile and compaction requirements.
- ▶ The earthworks verification strategy would need to be developed in conjunction with the earthworks design and specifications, and be suitable for the material being tested.

Upon completion of the design, and prior to commencement of construction, it is recommended the earthworks strategy be reviewed and monitored during construction.

As part of that works, a ground improvement specification and verification methodology should also be developed at the initial phase of the construction works. The ground improvement specification should be monitored during the works by a competent and independent geotechnical engineer experienced in ground improvement works.

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



“Your Geotechnical Report”

1 Introduction

The information contained in this document is to inform JDSi's clients of the reasonable expectations of a geotechnical report and options to mitigate geotechnical risks and consequences. This information is provided to help clients understand where JDSi's responsibility as a geotechnical engineer, acting reasonably, begin and end. In doing so, it also highlights the responsibility of our client and third parties.

Please contact the JDSi Project Director should you not understand the report and the limitations of the information provided.

2 Collection and Interpretation of Data

Geotechnical investigations identify subsurface conditions only at the point of investigation. The material encountered during the investigation is recorded on logs and based on a visual assessment and (if undertaken) supported by laboratory test results. In the case of an Electric Friction Cone Penetrometer Test (CPT), the data recorded is a tip pressure and sleeve friction on a rod; from which ground conditions are inferred.

Actual conditions may differ from those encountered during the investigations and / or inferred a distance from the investigation stations. In addition, the actual interface between materials or units may be gradual or more abrupt than inferred from the results of the investigation.

A Chartered Geotechnical Engineer and / or Engineering Geologist should be retained through the various stages of the project to identify variances, conduct additional tests if required, and provide recommendations to address geotechnical / geological issues identified on site. The Chartered Geotechnical Engineer / Engineering Geologist should also review the actual conditions encountered to confirm that they are consistent with those inferred in this report.

3 Change in Subsurface Conditions

The geotechnical recommendations and parameters provided in this report are based on the ground conditions encountered at the time of the geotechnical investigation. Changes in the ground conditions can occur over time and include, but are not limited to, the following:

- ▶ Filling or excavation works (or other anthropologic events);
- ▶ Flooding;
- ▶ Groundwater fluctuations;
- ▶ Earthquakes or other such events;
- ▶ Works on neighbouring sites impacting on the subject site; and,
- ▶ Migration of pollutants from neighbouring properties.

JDSi should be consulted if there is any protracted delay in the issue of this report and the use of the recommendations provided.

It is important to note that where ground conditions have changed, additional geotechnical investigations and testing may be required to assess the impacts of the changed ground conditions.

4 Specificity of Report

This geotechnical report has been prepared for a specific project and design; therefore, it has been written to address specific geotechnical issues. In doing so, the following has been taken into account:

- ▶ The project objectives as described in the report;
- ▶ The client's budget and programme constraints;
- ▶ The specific site mentioned in the report; and,
- ▶ The nature and extent of the development at the site.

This report should not be used for any other purpose other than what has been specifically described and should not be relied upon if:

- ▶ The report was not written for you;
- ▶ The report was not written for your specific site;
- ▶ The report does not address your specific development;
- ▶ There is a significant delay between undertaking the report and developing the site; or,
- ▶ Significant changes to the site have occurred.

Where the information and recommendations contained within this report are being used by others, JDSi should be engaged during the design process to engage with the other members of the design team and review works being produced by the other design team members to confirm that it is consistent with the geotechnical report.

5 Environmental Issues

Unless specifically addressed in this report, environmental and contamination considerations are not included. The investigation methods required for environmental investigation often differ to those used for geotechnical investigations and the information contained within this report may not be appropriate for use by environmental engineering consultants and scientists.

This report was not prepared to address environmental issues and the client is responsible to ensure environmental considerations have been taken into account for the project. JDSi can provide information on environmental engineering consultants, should this be required.

6 Construction

The method of ground investigation used for geotechnical investigations limits JDSi's ability to know every detail about the ground conditions on site. JDSi use reasonable engineering judgement to form an assessment of the subsurface conditions at the site based on information obtained at specific locations.

Ground conditions may be encountered during construction that were not anticipated during the geotechnical investigation. Should this be the case, JDSi should be engaged to provide construction support as a means of mitigating the consequence of encountering unexpected ground conditions.

7 Responsibility of Others

JDSi has prepared this report for the use by our client. JDSi does not accept any responsibility from any third party, other than our client, who uses the information contained in this report. JDSi takes no responsibility for any damages suffered by any third party as a consequence of any decisions or action that have been made based on this report.

Further information regarding the responsibility of clients and other third parties should also be obtained from the following:

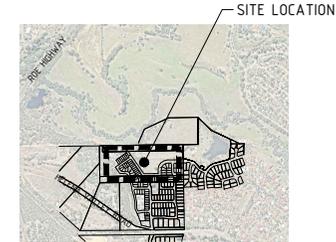
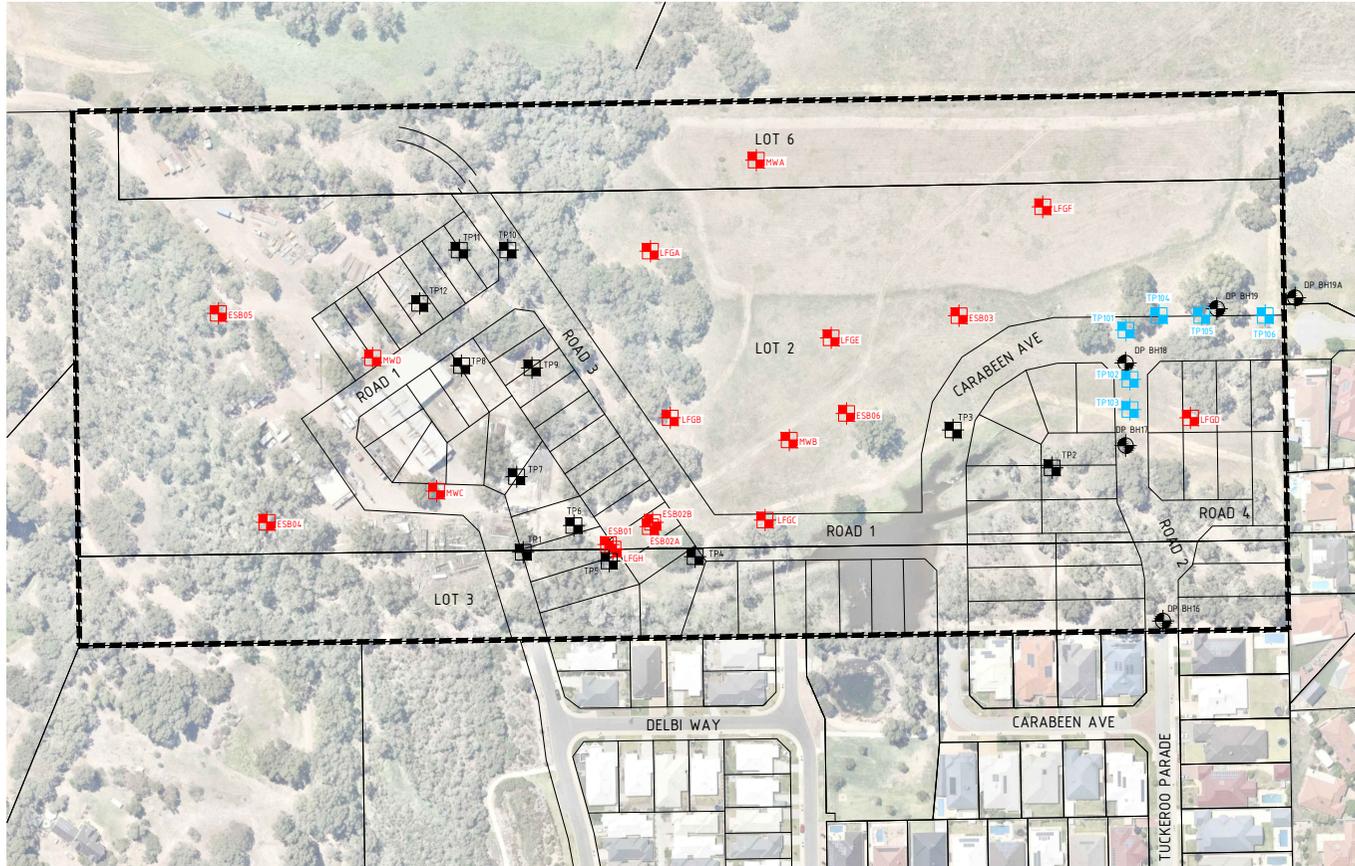
- ▶ “Guidelines for the Provision of Geotechnical Information in Construction”, published by the Institution of Engineers Australia;
- ▶ Australian Standard AS 2870 – 2011, Residential Slabs and Footings;
- ▶ Australian Standard, AS 5100 – 2004, Bridge Design Set; and,
- ▶ Any other Standard or Code of Practice applicable to the development.



Figures

Figure 1 – Site Investigation Layout

Figure 2 – Fill Areas



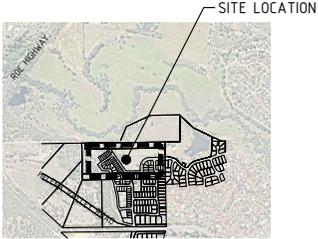
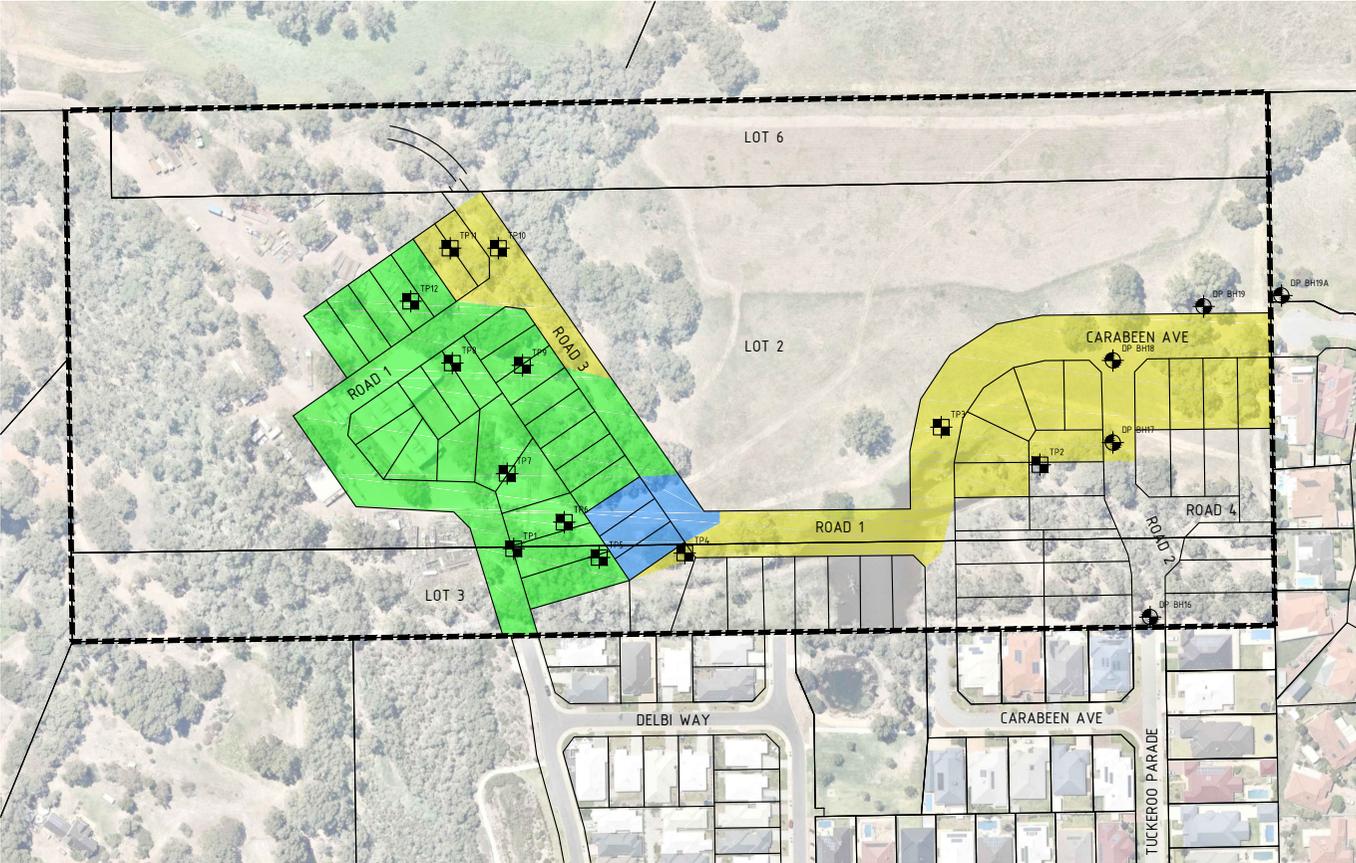
LOCALITY PLAN

NOTES
 SUBDIVISION LAYOUT SOURCED FROM MCDOWALL AFFLECK PTY LTD
 PRELIMINARY DRAWING REFERENCE NOS. 127149-SK02 REV D AND
 127149-SK04 REV A

- LEGEND**
- SITE BOUNDARY
 - PROPOSED SUBDIVISION LAYOUT
 - PIT REFERENCE TEST PIT LOCATION
 - PIT REFERENCE BOREHOLE LOCATION (BY DOUGLAS PARTNERS)
 - PIT REFERENCE GROUND WATER WELL LOCATIONS (BY EMERGE ASSOCIATES)
 - PIT REFERENCE TEST PIT LOCATIONS (BY DOUGLAS PARTNERS)



JDS161188
 LOTS 2, 3 AND 6 HELENA VALLEY ROAD, HELENA VALLEY
 FIGURE 1 - SITE INVESTIGATION LAYOUT
 JDS161188-R02-Figure1-Rev1



LOCALITY PLAN

NOTES
 SUBDIVISION LAYOUT SOURCED FROM MCDOWALL AFFLECK PTY LTD
 PRELIMINARY DRAWING REFERENCE NOS. 12749-SK02 REV D AND
 12749-SK04 REV A

- LEGEND**
- SITE BOUNDARY
 - PROPOSED SUBDIVISION LAYOUT
 - PIT REFERENCE TEST PIT LOCATION
 - PIT REFERENCE BOREHOLE LOCATION (BY DOUGLAS PARTNERS)

- FILLED AREAS**
- SHALLOW FILL
 - FILLED AREAS
 - DEEP FILL



JDS161188
 LOTS 2, 3 AND 6 HELENA VALLEY ROAD, HELENA VALLEY
 FILLED AREAS
 JDS161188-R02-Figure2-Rev0

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix A – Douglas Partners Borehole logs



 <p>Douglas Partners Geotechnics Environment Groundwater</p>	CLIENT: Dunland Property Pty Ltd	Test Locations, Site Features and Proposed Development	PROJECT: 88790.01
	OFFICE: PERTH DRAWN BY: MAB	Geotechnical Investigation	DWG No. 1
	SCALE: As Shown DATE: 16/02/2017	Stage 1 Bushmeade Estate, Midland Road, Hazelmere, WA	REV No. Rev0

BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 16.5 AHD	BORE No: BH16
PROJECT: Geotechnical Investigation	EASTING: 408065	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6468907	DATE: 23/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)
				Type	Depth	Sample	Results & Comments		
	0.75	FILLING (SAND) - dense, brown, fine to medium grained, sand with some gravel, dry. Gravel is fine to coarse sized laterite.	[Cross-hatch pattern]	ASS	0.5	155			
	1.0	CLAYEY SAND - dense / hard, yellow-orange-brown, fine to medium grained, clayey sand, with a trace of fine to coarse sized gravel and a trace of silt, dry to moist. - gravel becoming finer sized from 1.25 m.	[Diagonal hatch pattern]	ASS	1.0	156			
	1.5			ASS	1.5	157			
	2.0			D	2.0	158			
	2.5			ASS	2.5	159			
	3.0	- becoming moist from 2.75 m.		ASS	3.0	160			
	3.5	- becoming brown from 3.25 m.		ASS	3.5	161			
	4.0	- becoming grey-brown from 3.75 m.		ASS	4.0	162			
	4.5			ASS	4.5	163			
	4.75			D	4.75				
	5.0	- becoming grey from 4.75 m.		ASS	5.0	164			
	5.5	- becoming grey-brown from 5.25 m.		ASS	5.5	165			
	6.0	- becoming brown mottled grey-green from 5.75 m.		ASS	6.0	166			
	6.5	- becoming grey mottled orange-brown from 6.25 m.		ASS	6.5	167			
	7.0	Bore discontinued at 7.0m (target depth).		ASS	7.0	168			

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

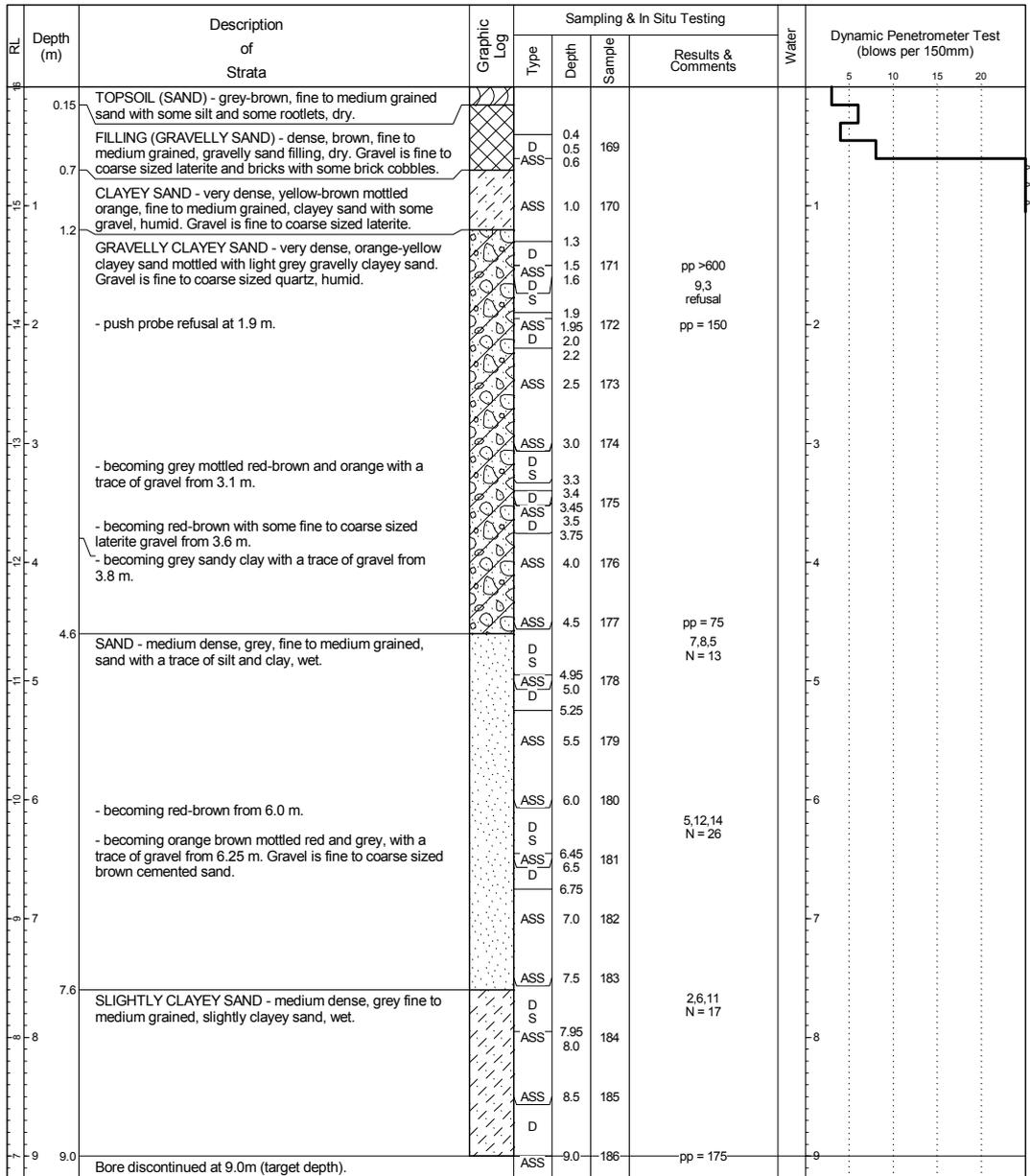
REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques. Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	⚡ Water level	V Shear vane (kPa)	



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 16.0 AHD	BORE No: BH17
PROJECT: Geotechnical Investigation	EASTING: 408053	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6468984	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1



RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger & SPT

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

Sand Penetrometer AS1289.6.3.3
 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	⚡ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH18
PROJECT: Geotechnical Investigation	EASTING: 408052	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469027	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
		GRAVELLY SAND - very dense, red-orange-brown, fine to medium grained, gravelly sand with a trace of clay, a trace of silt, dry. Gravel is fine to coarse sized quartz.	(Graphic Log: Circles and dots)										
		- becoming brown from 0.75 m.		D	0.4	187							
				ASS	0.5								
				ASS	0.6								
	1	- becoming dark brown with a trace of gravel from 1.25 m.		ASS	1.0	188							
				ASS	1.5	189							
	1.75	CLAYEY SAND - yellow-orange-brown, fine to medium grained clayey sand, with some fine gravel, humid.	(Graphic Log: Dashed lines)	D	1.75								
		- becoming orange-brown with some fine to coarse sized laterite gravel from 2.25 m.		ASS	2.0	190							
				ASS	2.5	191							
		- becoming light brown clayey sand with a trace of gravel from 2.75 m.		D									
				ASS	3.0	192							
				D									
				ASS	3.5	193							
		- becoming orange-brown from 3.75 m.		ASS	4.0	194							
		- becoming moist from 4.25 m.		ASS	4.5	195							
				D	4.75								
		- becoming grey and saturated from 4.8 m.		ASS	5.0	196							
				ASS	5.5	197							
		- becoming grey mottled orange-brown from 6.0 m.		ASS	6.0	198							
				ASS	6.5	199							
		- becoming orange-brown mottled grey 6.75 m.		D									
	7.0	Bore discontinued at 7.0m (target depth).		ASS	7.0	200							

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques. Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	⚡ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH19
PROJECT: Geotechnical Investigation	EASTING: 408087	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469055	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 0mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.9	FILLING (GRAVELLY SAND) - loose, red-brown, fine to medium grained, gravelly sand filling. Gravel is fine to coarse sized ceramic, brick, laterite, metal. Whole bricks and other demolition materials were also observed at ground surface near the borehole location.	X	D	0.9		6.7.2 N = 9					
	1.1											
	1.5			S								
	1.95											
	2.7	Bore discontinued at 2.7m(refusal - concrete).										
	3.0											
	4.0											
	5.0											
	6.0											
	7.0											
	8.0											
	9.0											

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger & SPT

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
BLK Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
C Core drilling	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
D Disturbed sample	W Water sample	pp Pocket penetrometer (kPa)
E Environmental sample	> Water seep	S Standard penetration test
	¶ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH19A
PROJECT: Geotechnical Investigation	EASTING: 408117	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469053	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 0mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
		FILLING (GRAVELLY SAND) - medium dense, light brown, fine to medium grained, sand with some silt and some gravel, dry. Gravel is fine to coarse sized laterite and brick fragments.	X	ASS	0.5									
	1.1	- traces of clay from 1.1 m.	X	D										
	1.4	- some clay from 1.4 m.	X	ASS	1.0									
	1.5	- some fragments of concrete, brick, charred wood from 1.5 m.	X	ASS	1.5		4,9,10 N = 19							
	1.95		X	D										
	2.0	- brick and concrete fragments from 2.0 m	X	ASS	2.0									
	2.5	- becoming brown slightly clayey sand from 2.5 m.	X	D										
	3.0		X	ASS	2.5									
	3.0	- becoming very loose from 3.15 m.	X	D			6,2,1 N = 3							
	3.45		X	(S)	3.45									
	3.7	Bore discontinued at 3.7m(refusal - concrete).	X											
	4		X											
	5		X											
	6		X											
	7		X											
	8		X											
	9		X											

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Push Probe (95mm Ø), Solid Flight Auger & SPT

WATER OBSERVATIONS: Drilling method precluded accurate measurement of groundwater.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using push probing and solid auger on refusal. Sand Penetrometer AS1289.6.3.3 Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PID Photo ionisation detector (ppm)
BLK Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	¶ Water level	V Shear vane (kPa)



BOREHOLE LOG

CLIENT: Dunland Property Pty Ltd	SURFACE LEVEL: 15.0 AHD	BORE No: BH19B
PROJECT: Geotechnical Investigation	EASTING: 408084	PROJECT No: 88790.01
LOCATION: Bushmead Estate, Midland Road, Hazelmere, WA	NORTHING: 6469055	DATE: 20/1/2017
	DIP/AZIMUTH: 90°/--	SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per 150mm)
				Type	Depth	Sample	Results & Comments		
15.0	0.1	TOPSOIL (SAND) - dense, brown-grey, fine to medium grained, sand with some silt, some rootlets, humid.	[Cross-hatched pattern]	ASS	0.5	201			
		FILLING (GRAVELLY SAND) - dense, red-brown, fine to medium grained, gravelly sand filling, humid. Gravel is fine to coarse sized metal, laterite, brick, ceramic. Three lengths of re-bar became entangled on the auger. - becoming medium dense from 0.75 m.		ASS	1.0	202			
				ASS	1.5	203			
				S			6.7,2		
				ASS	1.95	204			
					2.0		N = 9		
				ASS	2.5	205			
					3.0	206			
				ASS	3.45	207			
					3.5				
		- becoming gravelly clayey sand from 3.5 m.	ASS	4.0	208				
				4.5	209				
		CLAYEY SAND - medium dense / very stiff, grey mottled red-brown, fine to medium grained clayey sand, moist.	[Diagonal hatched pattern]	S			4,6,12		
		- becoming red-brown mottled grey from 4.75 m.		ASS	4.95	210			
					5.0		pp = 375		
				ASS	5.5	211			
		- trace of weakly cemented sandy gravel and becoming moist to wet from 5.2 m.			6.0	212			
				ASS	6.5	213			
					7.0	214			
				S			10,12,15		
				ASS	7.45	215			
					7.5		N = 27		
			ASS	8.0	216				
				8.5	217				
			ASS	9.0	218				
	9.0	Bore discontinued at 9.0m (target depth).							

RIG: GeoProbe 7822DT **DRILLER:** Direct Push Probing **LOGGED:** M. Brooker **CASING:**

TYPE OF BORING: Solid Flight Auger & SPT

WATER OBSERVATIONS: Groundwater observed at 3.5 m below the surface on 1 February 2017.

REMARKS: Location coordinates are in MGA94 Zone 50. ^ Surface level interpolated from a survey plan provided by the client. Borehole advanced using solid auger drilling techniques.

SAMPLING & IN SITU TESTING LEGEND

A Auger sample	G Gas sample	PLD Photo ionisation detector (ppm)
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)
C Core drilling	W Water sample	pp Pocket penetrometer (kPa)
D Disturbed sample	> Water seep	S Standard penetration test
E Environmental sample	▽ Water level	V Shear vane (kPa)



Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix B – Douglas Partners Test Pit Logs



Base Image Source: Nearmap, flown February 2017.

 Douglas Partners Geotechnics Environment Groundwater	CLIENT: Dunland Property Pty Ltd		Test Location Plan	Project 88790.03
	OFFICE: Perth	DRAWN BY: RW	Targeted Contamination Assessment	Drawing No: 3
	SCALE: As shown	DATE: April 2017	Lot 3 Helena Valley Road, Hazelmere, WA	Revision: 0

TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408047
NORTHING: 6469042

PIT No: TP101
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling with a trace of bitumen pieces and fine to medium sized laterite gravel, dry.	B D E	0.0		No PACM observed.								
	0.5	FILLING (SAND) - grey, fine to medium grained sand filling with some bricks and brick pieces, dry.	B D E	0.5		PACM observed.								
	0.7	CLAYEY SAND - orange-brown, fine to medium grained clayey sand, dry.	B D E	0.7										
	2.3	Pit discontinued at 2.3m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (cpm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	gp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408053
NORTHING: 6469023

PIT No: TP102
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - grey-orange, fine to medium grained clayey sand filling with a trace of brick pieces, dry. - with some rootlets to 0.1 m. - becoming orange-brown from 0.15 m.	B D E			No PACM observed.								
	0.4	FILLING (SAND) - grey-brown, fine to medium grained sand filling with some bricks and pieces of brick, concrete and metal, dry. - becoming dark grey-black from 0.8 m.	B D E			PACM observed.								
	0.9	CLAYEY SAND - light grey mottled orange, fine to medium grained clayey sand, dry.	E											
	2.0	Pit discontinued at 2.0m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (cpm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	gp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 16 AHD
EASTING: 408053
NORTHING: 6469004

PIT No: TP103
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling, dry. - with some rootlets to 0.1 m.	B D E			No PACM observed.							
	0.5	FILLING (SAND) - orange, fine to medium grained sand filling with bricks, dry.	B D E			No PACM observed.							
	1.0	CLAYEY SAND - red mottled orange, fine to medium grained clayey sand, dry.	B E			No PACM observed.	1						
	2.4	Pit discontinued at 2.4m (slow digging).					2						
	3.0						3						

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (cpm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	gp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408066
NORTHING: 6469046

PIT No: TP104
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)									
				Type	Depth	Sample	Results & Comments		5	10	15	20						
	0.0	FILLING (SAND) - brown, fine to medium grained sand filling with some bricks and pieces of concrete and metal, dry.	B D E				PACM observed.											
	0.6	CLAYEY SAND - brown-yellow, fine to medium grained clayey sand, dry.	E				No PACM observed.											
	1.0		B E															
	2.2	SANDY CLAY - grey mottled yellow, low plastic sandy clay, dry.	E															
	3.3	Pit discontinued at 3.3m (slow digging).																

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	≡	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408085
NORTHING: 6469046

PIT No: TP105
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - orange-brown, fine to medium grained clayey sand filling, dry. - with some rootlets to 0.1 m.	B D E	0.0		No PACM observed.								
	0.6	FILLING (SAND) - grey, fine to medium grained sand filling with some bricks and concrete pieces, dry.	B D E	0.7		PACM observed.								
	1.6	CLAYEY SAND - yellow-orange, fine to medium grained clayey sand, dry.	B E	1.6		No PACM observed.								
	2.5	Pit discontinued at 2.5m (slow digging).												

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	>	Water seep
E	Environmental sample	⊖	Water level
		PID	Photo ionisation detector (cpm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		gp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Dunland Property Pty Ltd
PROJECT: Targeted Contamination Assessment
LOCATION: Lot 3 Helena Valley Drive, Hazelmere, WA

SURFACE LEVEL: 15 AHD
EASTING: 408107
NORTHING: 6469046

PIT No: TP106
PROJECT No: 88790.03
DATE: 21/3/2017
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)					
				Type	Depth	Sample	Results & Comments		5	10	15	20		
	0.0	FILLING (CLAYEY SAND) - brown-yellow, fine to medium grained clayey sand filling, dry.	B D E			No PACM observed.								
	0.3	FILLING (SAND) - grey-brown, fine to medium grained sand filling with some bricks and pieces of brick, concrete and bitumen, dry.	B D E			No PACM observed.								
	0.5	CLAYEY SAND - yellow-orange, fine to medium grained clayey sand, dry.	B D E											
	0.6		E											
	1.0													
	1.7	- becoming yellow mottled red from 1.7 m.												
	2.0	Pit discontinued at 2.0m (slow digging).												
	2.0													
	3.0													

RIG: 33 tonne excavator with 1200 mm flat blade bucket.

LOGGED: R Walker

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed.

REMARKS: Surface level interpolated from Google Earth.

- Sand Penetrometer AS1289.6.3.3
- Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A Auger sample	G Gas sample	PID Photo ionisation detector (cpm)	
B Bulk sample	P Piston sample	PL(A) Point load axial test Is(50) (MPa)	
BLK Block sample	U Tube sample (x mm dia.)	PL(D) Point load diametral test Is(50) (MPa)	
C Core drilling	W Water sample	gp Pocket penetrometer (kPa)	
D Disturbed sample	> Water seep	S Standard penetration test	
E Environmental sample	≡ Water level	V Shear vane (kPa)	

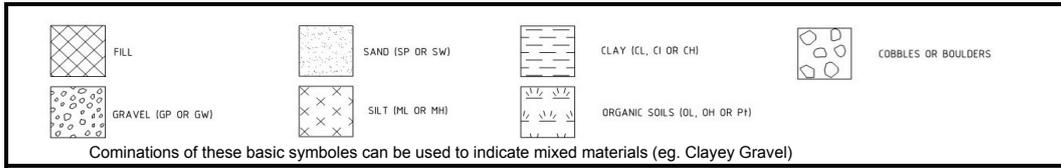


Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix C – JDSi Test Pit Logs

EXPLANATORY NOTES - SOIL DESCRIPTION

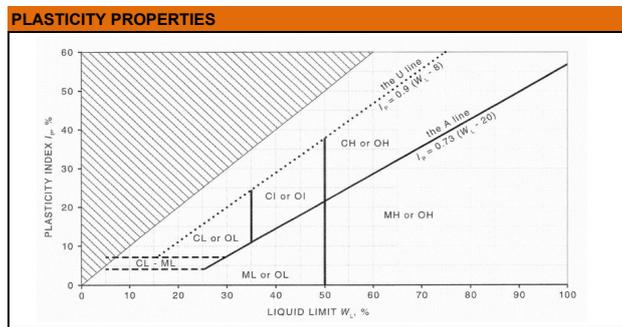


GP	Poorly Graded Gravel	SM	Silty Sand	CH	High Plasticity Clay
GW	Well Graded Gravel	SC	Clayey Sand	OL	Organic Soils (LP)
GM	Silty Gravel	ML	Low Plasticity Silt	OH	Organic Soils (HP)
GC	Clayey Gravel	MH	High Plasticity Silt	PT	Peat
SP	Poorly Graded Sand	CL	Low Plasticity Clay	Describe	Cobbles and Boulders
SW	Well Graded Sand	CI	Medium Plasticity Clay	Fill	Fill

SOIL CLASSIFICATION AND INFERRED STRATIGRAPHY
 Soil descriptions are based on AS1726:2017, Section 6.2. Material properties are assessed in the field by visual/tactile methods in combination with field testing techniques (where used).

PARTICLE SIZE

Soil Name	Particle Size (mm)	
BOULDERS	>200	
COBBLES	63 to 200	
GRAVEL	Coarse	20 to 63
	Medium	6 to 20
	Fine	2 to 6
SAND	Coarse	0.6 to 2.0
	Medium	0.2 to 0.6
	Fine	0.075 to 0.2
FINES	SILT	0.002 to 0.075
	CLAY	<0.002



MINOR COMPONENTS

TERM	ASSESSMENT GUIDE	PROPORTION OF MINOR COMPONENT IN:
Trace of	Presence just detectable by feel or eye, but soil properties little or no different to general properties of primary component.	Coarse grained soils: <5% Fine grained soils: <15%
With some	Presence easily detected by feel or eye, soil properties little different to general properties if primary component.	Coarse grained soils: 5 - 12% Fine grained soils: 15 - 30%

RESISTANCE TO EXCAVATION

Symbol	Term	Description
VE	Very easy	All resistances are relative to the selected method of excavation.
E	Easy	
F	Firm	
H	Hard	
VH	Very hard	

MOISTURE CONDITION AS1726-1993

Symbol	Term	Description
D	Dry	Sands and gravels are free flowing. Clays and silts may be brittle or friable and powdery
M	Moist	Soils are darker than in the dry condition and may feel cool. Sands and gravels tend to cohere.
W	Wet	Soils exude free water. Sands and gravels tend to cohere.

CONSISTENCY AND DENSITY AS1726-1993

Symbol	Term	Undrained Shear Strength (kPa)	SPT "N"	DCP blows per 100mm	Symbol	Term	Density Index (%)	SPT "N"	DCP blows per 100mm	PSP blows per 300mm
VS	Very soft	0 to 12	0 to 2	<1	VL	Very Loose	<15	0 to 4	<1	0 to 2
S	Soft	12 to 25	2 to 4	<1	L	Loose	15 to 35	4 to 10	1 to 2	2 to 6
F	Firm	25 to 50	4 to 8	1 to 2	MD	Medium Dense	35 to 65	10 to 30	2 to 3	6 to 8
St	Stiff	50 to 100	8 to 15	3 to 4	D	Dense	65 to 85	30 to 50	4 to 8	8 to 15
VSt	Very Stiff	100 to 200	15 to 30	5 to 10	VD	Very Dense	>85	>50	>8	>15
H	Hard	>200	>30	>10	Note: PSP correlations only valid 450mm depth					

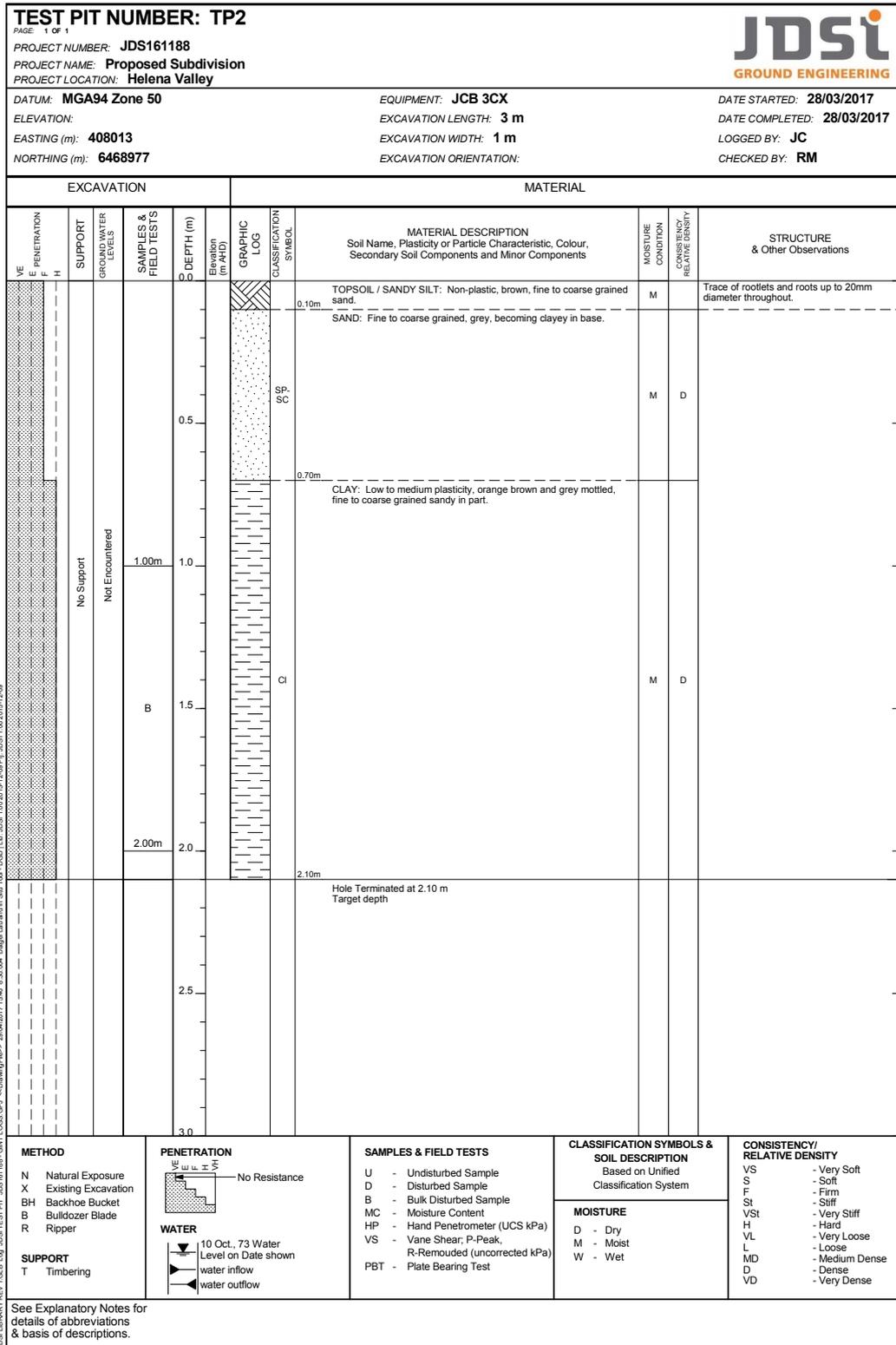
Consistency and density may also be inferred from excavation performance and material behaviour.

EXCAVATION				MATERIAL			
DEPTH (m)	Elevation (m AHD)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
0.0				FILL: Mixture of brick, sand and silt / clay. Fine to coarse grained sand, low to medium plasticity clay, brown, red brown and black mottled.			Predominantly brick. Roots observed in base of layer.
0.5					M		
1.0				CLAYEY SAND: Fine to coarse grained, yellow, low plasticity clay.			
1.5			SC		M	D	
1.70m				SANDY CLAY: Low to medium plasticity, yellow grey, fine to coarse grained sand.			
1.80m			Cl		M	F	
2.0				Hole Terminated at 1.80 m Target depth			
2.5							
3.0							

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper SUPPORT T Timbering	PENETRATION  No Resistance WATER 10 Oct., 73 Water Level on Date shown  water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
---	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

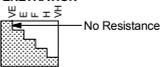
File: JDS161188 TP1 1 OF 1



File: JDS161188 TP2 1 OF 1

EXCAVATION				MATERIAL			
NE F H	SUPPORT	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION	MOISTURE CONDITION	STRUCTURE & Other Observations
TEST PIT NUMBER: TP3 PAGE: 1 OF 1 PROJECT NUMBER: JDS161188 PROJECT NAME: Proposed Subdivision PROJECT LOCATION: Helena Valley DATUM: MG494 Zone 50 ELEVATION: EASTING (m): 407968 NORTHING (m): 6468994 EQUIPMENT: JCB 3CX EXCAVATION LENGTH: 3 m EXCAVATION WIDTH: 1 m EXCAVATION ORIENTATION: DATE STARTED: 28/03/2017 DATE COMPLETED: 28/03/2017 LOGGED BY: JC CHECKED BY: RM							
PENETRATION No Resistance				TOPSOIL / FILL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.			
SUPPORT No Support Not Encountered				FILL / SANDY CLAY: Low plasticity, brown, fine to coarse grained sand, with some concrete blocks and bricks (up to 20mm), trace of fine to coarse grained gravel.			
WATER 10 Oct., 73 Water Level on Date shown water inflow water outflow				FILL: Mixture of sand and brick, grey, fine to coarse grained sand, trace of plastics, wire, steel drum, wood, concrete pipe.			
METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper				CLAY: Medium plasticity, brown.			
SUPPORT T Timbering				Possible natural ground. Difficult to access due to collapse of test pit. Layer description based on material observed on teeth of backhoe bucket.			
See Explanatory Notes for details of abbreviations & basis of descriptions.				Hole Terminated at 2.20 m Collapse			
CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System				CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System			
SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test				MOISTURE D - Dry M - Moist W - Wet			
CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense				CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense			

EXCAVATION				MATERIAL				
VE PENETRATION	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
			0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D		Grass at surface.
			0.10m		FILL: Mixture of bricks and sand. Fine to coarse grained, sub-angular sand, brown, trace of low plasticity fines, trace of rope, wire, glass.			Rootlets throughout.
	No Support		0.50m					
	Not Encountered	B	1.0			D		
			1.50m					
			1.80m					
		B	2.0		SANDY CLAY: Low to medium plasticity, yellow grey, fine to coarse grained sand.	M	F to St	Depth to natural soil varies across the side wall of test pit between 1.4m and 2.1m.
			2.00m					
			2.20m		Hole Terminated at 2.20 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP4
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407851
 NORTHING (m): 6468937
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

EXCAVATION				MATERIAL				
NE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support		0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D		Roots and rootlets up to 100mm visible between 0 and 0.5m depth.
	Not Encountered		0.10m		SANDY CLAY: Low to medium plasticity, yellow, fine to coarse grained sand.	M	St to VS _L	
			0.50m		CLAY: Medium plasticity, yellow grey mottled, with some fine to coarse grained sand, trace of iron staining.			
		B	1.00m					
			1.50m				St to VS _L	
			2.0					
			2.30m		Hole Terminated at 2.30 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance WATER  10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VS _L - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



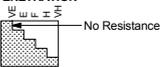
TEST PIT NUMBER: TP5
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley

EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:

DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

JDSI LIBRARY REV / I.Q.B. LOG / JDSI TEST PIT / JDSI 161188 / GNT.LOOS.GPJ / <DrawingFile> / 28/03/2017 15:49 / 8.30.00 / Digital Land and Survey / JDSI 100.2015.12.09 P.L. JDSI 1.00.2015.12.09

EXCAVATION				MATERIAL				
VE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0.00		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	D		
			0.10m		FILL: Mixture of sand and bricks. Sand is fine to coarse grained, grey red.	D		
			0.40m		FILL: Mixture of clay and bricks. Clay is medium plasticity, brown and dark grey.	M		
			0.90m		CLAY: Medium plasticity, grey and brown mottled, with some fine to coarse grained sand.	M	St	
			2.30m		Hole Terminated at 2.30 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.



TEST PIT NUMBER: TP6
 PAGE: 1 of 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407796
 NORTHING (m): 6468951
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM

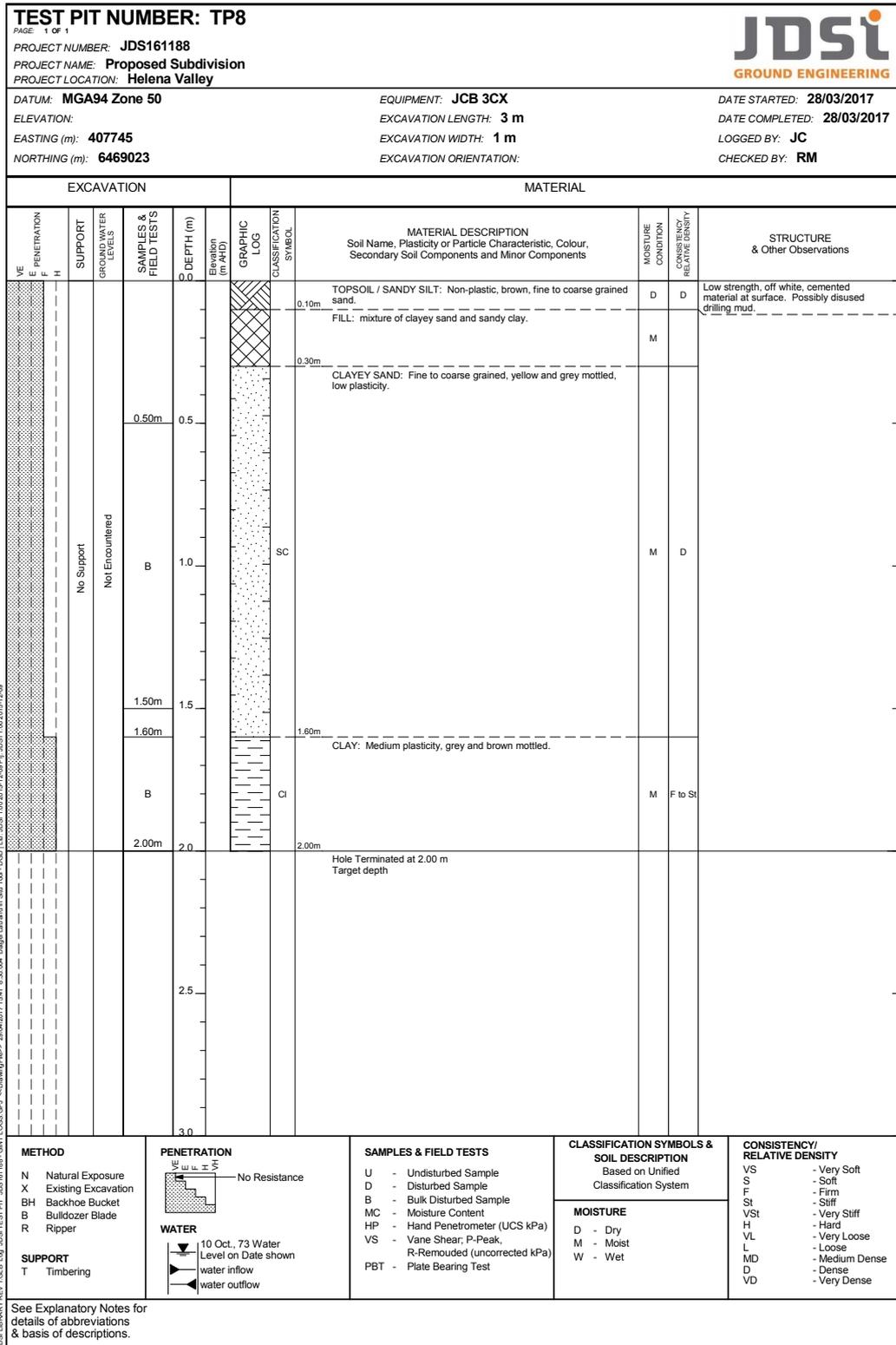
EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0.0		FILL / CLAYEY SAND: Fine to coarse grained, dark grey and red brown, low plasticity clays, trace of plastic, rope and bricks. Pockets of crushed brick visible.	M		Fill varies from 0.4m to 0.9m thick across test pit.
			0.40m		SAND: Fine to medium grained, yellow grey.	M	D	
			0.70m		SANDY CLAY: Low to medium plasticity, yellow grey orange mottled, fine to coarse grained sand.	M	VSt	
			1.0	 Fine to coarse grained, grey sand lense 50mm thick at 1.1m.			
			1.50m		Hole Terminated at 1.50 m Refusal			
			2.0					
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper SUPPORT T Timbering	PENETRATION  No Resistance WATER  10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
---	---	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

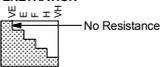


TEST PIT NUMBER: TP7
 PAGE: 1 OF 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407770
 NORTHING (m): 6468973
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 2.5 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM



File: JDS161188 TP8 1 OF 1

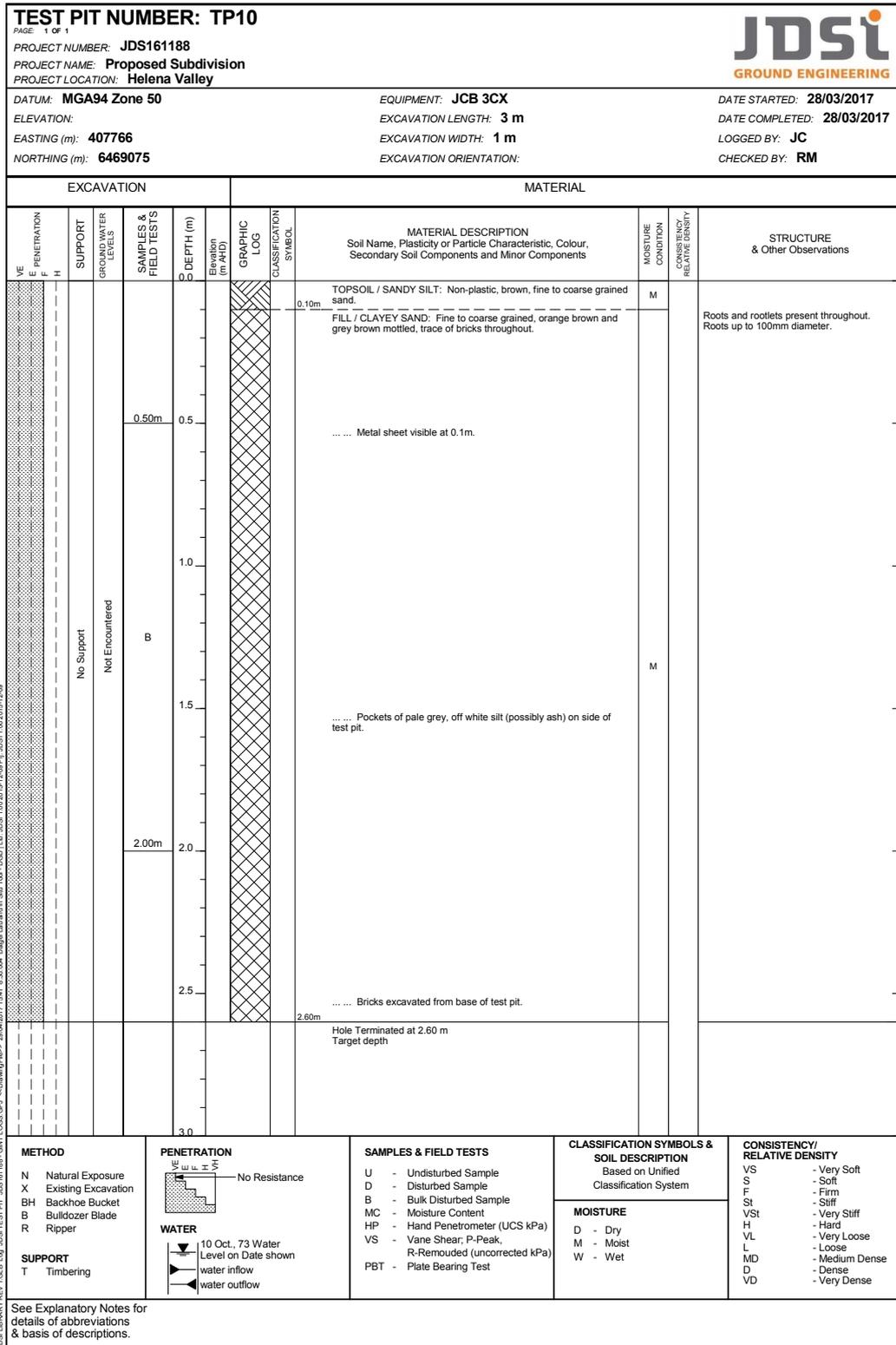
EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	M		
			0.10m		FILL: Interbedded layers of sand and clay. Fine to coarse grained, pale grey sand. Medium plasticity, orange brown clay. Trace of brick fragments and concrete throughout.	M		
			0.50m		CLAYEY SAND: Fine to coarse grained, yellow and grey mottled, low plasticity clay, weakly cemented.	M	D	
			1.30m		CLAY: Medium plasticity, grey brown mottled.	M	F	
			2.20m		Hole Terminated at 2.20 m Target depth			
			2.5					
			3.0					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

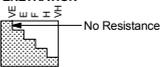


TEST PIT NUMBER: TP9
 PAGE: 1 OF 1
 PROJECT NUMBER: JDS161188
 PROJECT NAME: Proposed Subdivision
 PROJECT LOCATION: Helena Valley
 DATUM: MGA94 Zone 50
 ELEVATION:
 EASTING (m): 407777
 NORTHING (m): 6469022
 EQUIPMENT: JCB 3CX
 EXCAVATION LENGTH: 3 m
 EXCAVATION WIDTH: 1 m
 EXCAVATION ORIENTATION:
 DATE STARTED: 28/03/2017
 DATE COMPLETED: 28/03/2017
 LOGGED BY: JC
 CHECKED BY: RM



File: JDS161188 TP10 1 OF 1

EXCAVATION				MATERIAL			
NE PENETRATION E F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support Not Encountered		0		TOPSOIL / SANDY SILT: Non-plastic, brown, fine to coarse grained sand.	M	Grass at surface.
			0.10m		FILL / SANDY CLAY / CLAYEY SAND: Low to medium plasticity, fine to coarse grained, red brown, with some bricks throughout, trace of cloth and rope.	M	Roots up to 30mm diameter throughout layer. Layering visible.
			0.5				
			1.0				
			1.40m		SANDY CLAY: Low to medium plasticity, yellow grey mottled, fine to coarse grained sand.	M St	
			1.5				
			2.0				
			2.10m		Hole Terminated at 2.10 m Target depth		
			2.5				
			3.0				

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	--	--	--	---

See Explanatory Notes for details of abbreviations & basis of descriptions.

EXCAVATION				MATERIAL				
VE PENETRATION F H	SUPPORT GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m) Elevation (m AHD)	GRAPHIC LOG SYMBOL	MATERIAL DESCRIPTION Soil Name, Plasticity or Particle Characteristic, Colour, Secondary Soil Components and Minor Components	MOISTURE CONDITION	CONSISTENCY/ RELATIVE DENSITY	STRUCTURE & Other Observations
	No Support No Encountered	B	0.50m 1.40m	SC	FILL / CLAYEY SAND: Fine to coarse grained, red brown, medium plasticity clay, crushed brick. CLAYEY SAND: Fine to coarse grained, yellow grey mottled, low plasticity clays.	M	D	
			1.50m	Cl	CLAY: Medium plasticity, yellow grey mottled.	M	St	
			1.80m		Hole Terminated at 1.80 m Target depth			
			2.0m 2.5m 3.0m					

METHOD N Natural Exposure X Existing Excavation BH Backhoe Bucket B Bulldozer Blade R Ripper	PENETRATION  No Resistance WATER  10 Oct., 73 Water Level on Date shown water inflow water outflow	SAMPLES & FIELD TESTS U - Undisturbed Sample D - Disturbed Sample B - Bulk Disturbed Sample MC - Moisture Content HP - Hand Penetrometer (UCS kPa) VS - Vane Shear: P-Peak, R-Remoulded (uncorrected kPa) PBT - Plate Bearing Test	CLASSIFICATION SYMBOLS & SOIL DESCRIPTION Based on Unified Classification System MOISTURE D - Dry M - Moist W - Wet	CONSISTENCY/ RELATIVE DENSITY VS - Very Soft S - Soft F - Firm St - Stiff VSt - Very Stiff H - Hard VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense
--	---	--	--	---

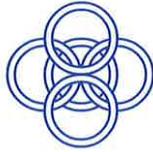
See Explanatory Notes for details of abbreviations & basis of descriptions.

File: JDS161188 TP12 1 OF 1

Lots 2, 3 and 6 Helena Valley Road
Geotechnical Site Investigation
JDS161188-R02-Rev2



Appendix D – Laboratory Test Results



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_49
 SAMPLE NO.: 73
 CLIENT REFERENCE: TP5 - 1.0m to 1.5m
 DATE TESTED: 10.04.2017
 SAMPLE DESCRIPTION: Clay
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	61 %
PLASTIC LIMIT	24 %
PLASTICITY INDEX	37 %
LINEAR SHRINKAGE	11.0 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.
 Curling & Cracking present in Linear Shrinkage



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR **TECHNICAL COMPETENCE**

Approved

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_49_1 ISSUE 1

EXCELICAL.CIPL_ATTER [149_49p1] REV 002 DATE: 24.10.2014



MATERIALS CONSULTANTS PTY. LTD.

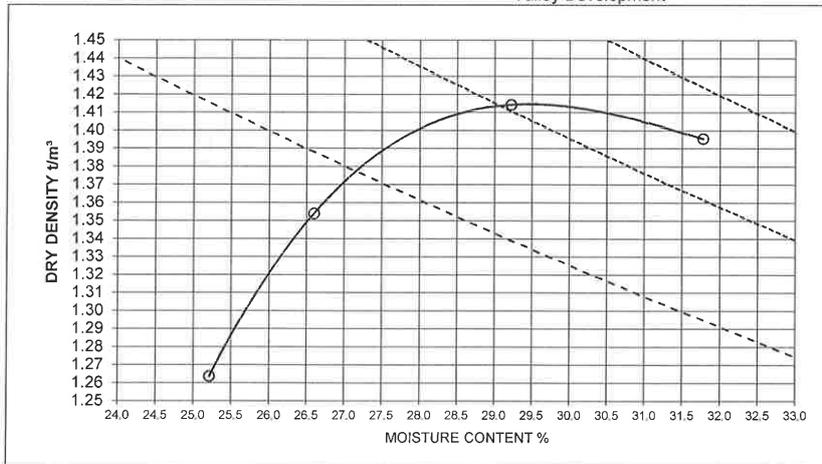
INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

**DETERMINATION OF THE DRY DENSITY/MOISTURE CONTENT RELATIONSHIP
OF A SOIL USING STANDARD COMPACTIVE EFFORT: AS1289.5.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_49
 SAMPLE NO.: 73
 CLIENT REFERENCE: TP5 - 1.0m to 1.5m
 DATE TESTED: 06.04.2017
 SAMPLE DESCRIPTION: Clay
 FEATURE: -
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development



MAXIMUM DRY DENSITY	1.42 t/m³
OPTIMUM MOISTURE CONTENT	29.5 %
PER CENT RETAINED 19.0 mm SIEVE	0 %
PER CENT RETAINED 37.5 mm SIEVE	0 %

SAMPLING PROCEDURES: Tested as received.
 REMARKS: Type A Mould (1 litre) used for this test.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

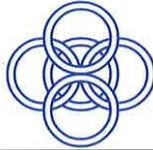
APPROVED: 
 M Snow, Signatory

DATE: 11.04.2017

CERTIFICATE NO. MC 149_49_2

ISSUE 1

EXCELICALCIMDDASS!!! [149_49mdd] REV 005 DATE 08.10.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

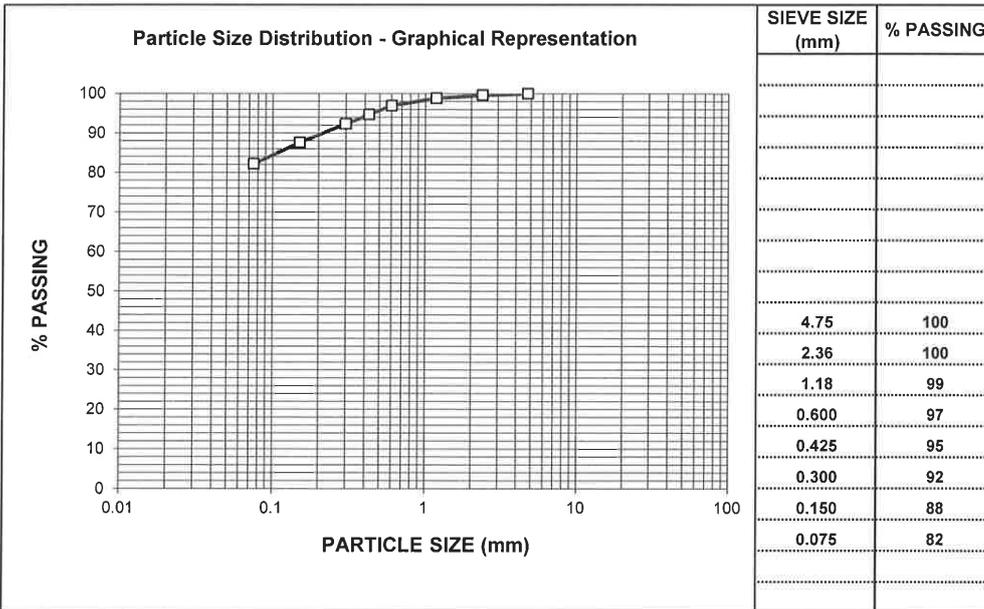
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_49
 SAMPLE NO. : 73
 CLIENT REFERENCE : TP5 - 1.0m to 1.5m
 DATE TESTED : 05.04.2017 & 11.04.2017
 SAMPLE DESCRIPTION : Clay
 PROJECT : JDSi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025
 ACCREDITED FOR TECHNICAL COMPETENCE

Approved: 
 M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_49_3

ISSUE 1

EXCELICALC\MC_SS236 [149_49psd] REV 002 DATE: 08.12.2015



MATERIALS CONSULTANTS PTY. LTD.

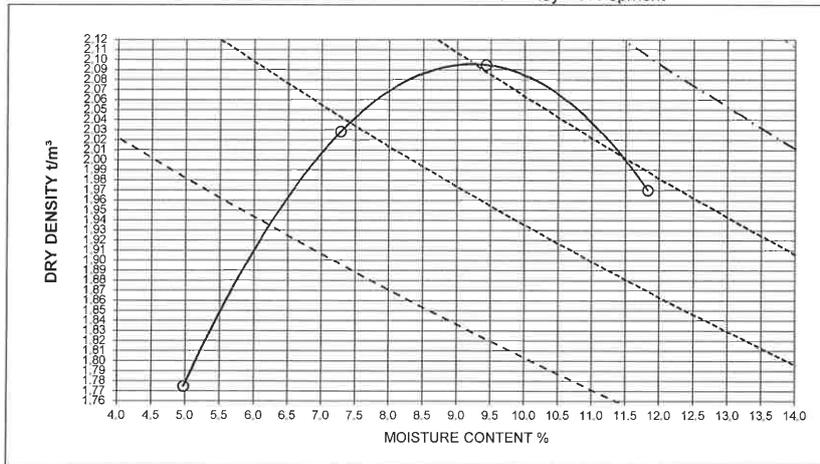
INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

**DETERMINATION OF THE DRY DENSITY/MOISTURE CONTENT RELATIONSHIP
OF A SOIL USING MODIFIED COMPACTIVE EFFORT : AS1289.5.2.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_50
 SAMPLE NO.: 74
 CLIENT REFERENCE: TP8 - 0.5m to 1.5m
 DATE TESTED: 03.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 FEATURE: -
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development



MAXIMUM DRY DENSITY 2.10 t/m³
OPTIMUM MOISTURE CONTENT 9.0 %
PER CENT RETAINED 19.0 mm SIEVE 0 %
PER CENT RETAINED 37.5 mm SIEVE 0 %

SAMPLING PROCEDURES: Tested as received.

REMARKS: Type A Mould (1 litre) used for this test.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

APPROVED

M Snow, Signatory

DATE : 11.04.2017

CERTIFICATE NO. MC 149_50 _1

ISSUE 1

EXCELICALCIMDDAS5!!! [149_50mtd] REV 005 DATE 08.10.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

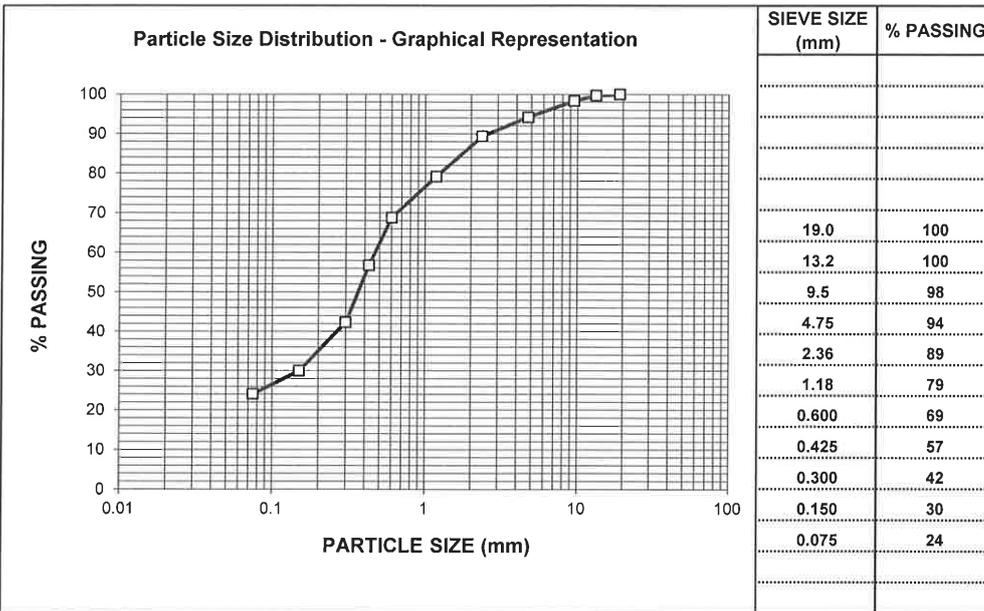
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_50
 SAMPLE NO. : 74
 CLIENT REFERENCE : TP8 - 0.5m to 1.5m
 DATE TESTED : 03.04.2017
 SAMPLE DESCRIPTION : Clayey Sand
 PROJECT : JDSi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

Approved:

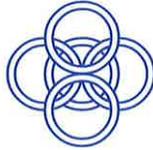
M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_50_2

ISSUE 1

EXCEL\CALC\MCP19_23 [149_50psd] REV 003 DATE: 30.11.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_50
 SAMPLE NO.: 74
 CLIENT REFERENCE: TP8 - 0.5m to 1.5m
 DATE TESTED: 07.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 PROJECT: JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	28 %
PLASTIC LIMIT	14 %
PLASTICITY INDEX	14 %
LINEAR SHRINKAGE	6.5 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR **TECHNICAL COMPETENCE**

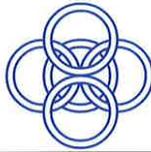
Approved

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_50_3 ISSUE 1

EXCEL\CALC\PI_ATTER [149_50pi] REV 002 DATE: 24.10.2014



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

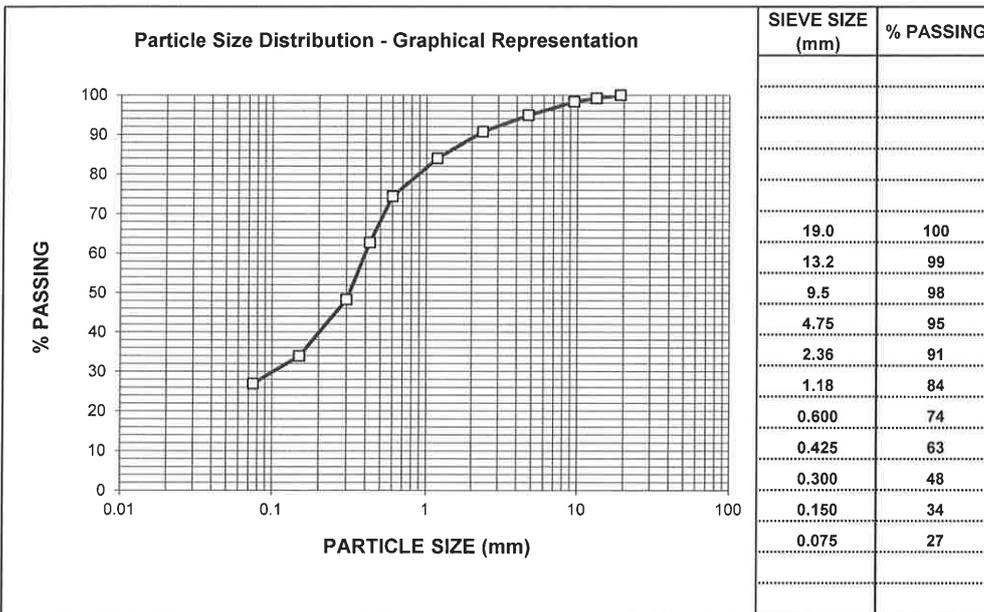
72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

STANDARD METHOD OF ANALYSIS BY SIEVING : AS 1289.3.6.1

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO. : 149_51
 SAMPLE NO. : 75
 CLIENT REFERENCE : TP12 - 0.5m to 1.4m
 DATE TESTED : 05.04.2017 & 11.04.2017
 SAMPLE DESCRIPTION : Clayey Sand
 PROJECT : JSDi Job No: JDS161188 - Helena Valley Development



Sampling Procedures: Tested as received.
 Remarks: Wet sieved.



Accredited for compliance with ISO/IEC 17025
 ACCREDITED FOR TECHNICAL COMPETENCE

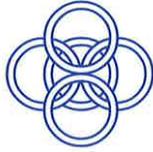
Approved:
 M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_51_1

ISSUE 1

EXCEL\CALC\MC_SS236 [149_51psd] REV 002 DATE: 08.12.2015



MATERIALS CONSULTANTS PTY. LTD.

INDEPENDENT TESTING LABORATORIES: NATA ACCREDITATION No 1763 : ABN 67 126 947 386

72 COLLINGWOOD STREET, OSBORNE PARK WA 6017 TELEPHONE: (08) 9244 3080 FACSIMILE: (08) 9446 6753
Email : admin@matcons.com.au

TEST CERTIFICATE

CONSISTENCY LIMIT - ATTERBERG

**TEST METHODS: AS 1289.3.1.1, AS 1289.3.2.1, AS 1289.3.3.1,
AS 1289.3.4.1, MOISTURE CONTENT : AS 1289.2.1.1**

CLIENT: JDSi Ground Engineering Pty Ltd, PO Box 8523, Perth BC, WA, 6849
 JOB NO.: 149_51
 SAMPLE NO.: 75
 CLIENT REFERENCE: TP12 - 0.5m to 1.4m
 DATE TESTED: 07.04.2017
 SAMPLE DESCRIPTION: Clayey Sand
 PROJECT: Quality Control - JDSi Job No: JDS161188 - Helena Valley Development

LIQUID LIMIT	31 %
PLASTIC LIMIT	12 %
PLASTICITY INDEX	19 %
LINEAR SHRINKAGE	4.5 %

Sampling Procedures: Tested as received.
 Remarks: Oven dried (50° C) Dry sieved.



Accredited for compliance with ISO/IEC 17025

ACCREDITED FOR TECHNICAL COMPETENCE

Approved

M Snow, Signatory

Date: 11.04.2017

CERTIFICATE NO. MC 149_51_2 ISSUE 1

EXCEL\CALC\PI_ATTER [149_51pi] REV 002 DATE: 24.10.2014

**Proposed Amendments to Structure Plan 71 –
Lot 6 Helena Valley Road and Lots 9001 and 9002 Carabeen Avenue, Helena Valley -
Schedule of Submissions**

No.	Comments	Shire Officer Comments
1	<i>No new developments should be proposed until there is a traffic solution to crossing roe highway. One small single lane bridge isn't cutting it.</i>	<p>The subject area is identified under the State and local planning framework as being an area which could accommodate development such as what is being proposed.</p> <p>The proposal was referred to Main Roads WA as part of the consultation phase and no concerns regarding traffic.</p> <p>The Shire's Infrastructure Services advise that while an increase in traffic volume would be expected by the creation of additional lots, the traffic volumes and road design meet the relevant safety and design standards.</p>
2	<i>Please be advised that Main Roads has no objections to the proposed Local Structure Plan amendment.</i>	Noted
3	<i>The Department of Water and Environmental Regulation has considered the proposal and has no objections and no further comments. It is noted that a Urban Water Management Plan (UWMP) and Foreshore Management Plan (FMP) support the proposal. The Department's Swan Avon Region has not</i>	Noted

	<i>reviewed UWMP's for many years now. Therefore the Department defers assessment and endorsement of the UWMP and the FMP as the future asset owner.</i>	
4	<i>I would like to reject this proposal 71 due to the reduction of Public Open Spaces, this is a great green area used by the public, and amazing to view, the wildlife and cockatoos flying through these areas are a sight to behold and having them move further away isn't the reason why people move to the shire of Mundaring.</i>	There is currently no public parkland within the SP71 area. The amended SP71 makes provision for 16% public open space (POS), which is more than the minimum 10% requirement under Liveable Neighbourhoods and Development Control Policy 2.3 – Public Open Space in Residential Areas. The proposed POS adjacent to the Kadina Brook foreshore provides for the majority of the POS requirement.
5	<i>My understanding was this portion of land could never be built on due to contamination and geographically unstable. In 2010 the land owner trucked in sand and covered the whole area with 2 metres of landfill.</i>	Please refer to the Site Contamination subsection of the report being presented to Council.
6	<i>Our Society does not object to the proposed structure plan.</i> <i>Our only comments relate to the proposed foreshore and public open space plan that has been submitted as part of the Structure Plan for Lots 2, 3 & 6 Midland Road, Helena Valley.</i> <i>The site in question was home to the Law and Atkins Helena Vale Brickworks between 1906 and 1973. We would like to suggest that the history of the brickworks are acknowledged within the proposed public open space whether it is with interpretive signage or even through public art with the reuse of bricks from the site.</i>	Action C.6 of the Shire's Heritage Strategy is for heritage trails and signage. The outcome of this action is for individual places to have standalone signs with relevant information to inform the community. The purpose being to educate the wider community about the history and heritage of places in the Shire. An appropriately located information sign regarding the former brickworks could be considered by the Shire.

	<i>The Society would be more than happy to work with applicants should they be interested in acknowledging the site's history.</i>	
7	<ul style="list-style-type: none"> a) <i>Who is proposing the amendments?</i> b) <i>What is the purpose of the amendments?</i> c) <i>What are the advantages versus disadvantages of the amendments?</i> d) <i>Will the amendments affect shire rates? If so, how?</i> e) <i>How might these amendments affect property values?</i> f) <i>What impact will the amendments have on traffic?</i> g) <i>What types of amenities are planned for the proposed new Recreation areas?</i> h) <i>Will the proposed new road in the south-western portion of SP71 connect to Melita Drive?</i> i) <i>How do these amendments align with the Shire's long term strategic plan?</i> 	<ul style="list-style-type: none"> a) Element is the applicant for this proposal. b) Please refer to the Details of the Proposal section in the report to Council. c) Please refer to the Comment section in the report to Council. d) This is not a matter the Shire is required to have regard to when assessing such a proposal. e) This is not a matter the Shire is required to have regard to when assessing such a proposal. The submitter is advised to get advice from a licensed property valuer. f) Please refer to the Comment section in the report to Council. g) This is not a matter the Shire is required to have regard to when assessing such a proposal. h) Yes, based upon the concept subdivision plan. i) Please refer to the Comment section in the report to Council.
8	<i>There is a current subdivision application, WAPC 160322 covering the subject area. We will address all our subdivisional requirements via that process.</i>	Noted

	<p><i>Reticulated water is currently available to the subject area. All water main extensions required for the development site, must be laid within the existing and proposed road reserves, on the correct alignment and in accordance with the Utility Providers Code of Practice.</i></p> <p><i>Reticulated sewerage is currently available to the subject area. All sewer main extensions required for the development site, should be laid within the existing and proposed road reserves, on the correct alignment and in accordance with the Utility Providers Code of Practice.</i></p> <p><i>It should be noted that existing water and sewerage mains are located within the subject land. Due consideration will be required when developing in this area. The developer is required to fund the full cost of protecting or modifying any of the existing infrastructure which may be affected by the proposed development.</i></p> <p><i>The information provided above is subject to review and may change. If the proposal has not proceeded within the next 6 months, please contact us to confirm that this information is still valid.</i></p>	
9	<p><i>I generally don't have an issue with the proposal, except that it is looking to take out a number of established, mature trees. It would be nice to see if more could be done to retain the existing tree canopy, especially the large, old gum tree in the middle the proposed stage 4 near Carabeen road as it is the only one left in that area. Having lived here a while, I can see a large number of native bird species regularly frequent that tree.</i></p>	<p>Please refer to the Natural Vegetation sub-section of the report being presented to Council.</p>
10	<p><i>1. The proposed extension of Melita Drive is concerning, as the street is already congested with parking and has two blind corners. A better entrance would be from one of the adjoining streets or, better, a further extension of the new road off Carabeen Ave.</i></p>	<p>Please refer to the Traffic and 'Other Matters' sub-sections of the report being presented to Council.</p>

	<p>2. <i>The proposed recreation reserve which includes the creek should remain undeveloped for several reasons:</i></p> <p>a) <i>The creek and adjoining bush are a registered Aboriginal Sacred Site.</i></p> <p>b) <i>The area is sanctuary for much wildlife: kangaroos, quendas, long necked tortoises and birds nesting all need this natural corridor from Helena Valley Road to the river.</i></p> <p>c) <i>The tree canopy has already been reduced in previous developments and needs to be preserved to provide environmental and ecological space. Making this area 'recreation' suggests that this natural corridor would be eliminated.</i></p> <p>d) <i>The bushland provides a sound buffer from Roe Highway to the residential area.</i></p>	<p>The areas shown on SP71 as being 'Parks and Recreation' and 'Recreation' are not proposed to be redeveloped.</p> <p>The 'Recreation' Reserve adjacent to the watercourse is proposed to be enlarged and used as POS, giving better protection for the watercourse from nearby residential development.</p>
11	<p><i>After careful consideration I am in opposition to the proposed changes. SP71 should remain as is.</i></p>	<p>Noted.</p>
12	<p><i>I wish to lodge my opposition to amendments to structure plan 71. I have only recently moved to Helena Valley. I moved here because I felt it would be a safe and peaceful area.</i></p> <p><i>So far we have had disruption to the power 3 times which affects my electrical appliances and my perishable foods in the fridge.</i></p> <p><i>The traffic has been quite bad getting into and out of the estate. There was quite a lot of noise and dust and trucks but that has settled a bit as the development next to me is finished.</i></p>	<p>There is currently no evidence that the proposal will result in disruption to the power supply within the locality. No concerns were raised by Western Power during the advertising period.</p> <p>Please refer to the Comment section of the report being presented to Council.</p>

	<p><i>They were working round the clock at one stage which was disruptive to me. This amendment to structure plan 71 will increase all these disruptions to this community I am now a member of. I strongly oppose to this amendment to structure plan 71 proposal.</i></p>	
13	<p><i>The Amendment area falls within the student enrolment intake area of Helena Valley Primary School which is currently operating above its built capacity and will continue to do so in the short to medium term. The primary school will require additional transportable classrooms to accommodate any additional students generated from this amendment area until a new school opens in the area. Furthermore, any requirement for primary school developer contributions will be assessed and applied at the subdivision stage.</i></p> <p><i>In view of the above, the Department of Education has no in principle objections to the proposed Structure Plan amendment. Any further changes to the zoning, residential density coding and/or dwelling numbers which may result in an increase to the student yield within the Structure Plan will require prior consultation with the Department.</i></p>	Noted
14	<p><i>This site has previously been utilised as a brickworks, inert landfill facility, salvage yard, rubber recycling facility amongst other uses.</i></p> <p><i>2010 this whole site was cover with 2 meters of landfill sand to hide the contamination ...see photos in above "Zipped file" (on the following page).</i></p>	Please refer to the Comment section of the report being presented to Council.

Photographs provided by submitter





		
<p>14 cont.</p>	<p><i>Contaminants also include: Asbestos, heavy metals, hydrocarbons, fuel spillage, chemical spillage, putrescible wastes, uncontrolled fill. Concrete, bricks, bitumen, steel, tin, iron bars, wire, plastics and household waste. There is a huge environmental concern with the large piles of contaminated rubbish. I request this area is cleaned up ASAP and all the debris gotten rid of as requested by my numerous emails to your departments, highlighting the health concerns to the Helena Valley residents.</i></p> <p><i>Has the ground water been investigated for contamination?</i></p> <p><i>Given the complex nature of this site and the current classification I request an assessment of the contamination and request a Mandatory Auditors report be ordered and investigation by DER.</i></p>	<p>Please refer to the Comment section of the report being presented to Council.</p>

<p><i>Two indigenous sites have been registered and identified, has the appropriate studies been carried out?</i></p> <p>Roads: <i>The current roads in the Reserve Estate are totally inadequate and dangerous. Tuckeroo Parade has become a race track down to Riverside Gardens, with very limited parking. Residents are having to park their huge 4WD vehicles on the roadside, with no view down the roads for oncoming vehicles.</i></p> <p>Carabeen Ave <i>has become a circle track for the local hoons and Sable Street the local hang out for the undesirable's late at night and a dumping ground for rubbish.</i></p> <p>Aircraft noise: <i>ANEF will go up to 25...complaints will increase as flight paths goes directly overhead at present even with 20 ANEF we cannot hear conversations in households.</i></p> <p><i>Additionally as we enter summer the temperature increases, there are the dust concerns and large amounts of plastics blowing around. We are constantly have to dust daily due to the easterly winds swirling "Contaminated" dust through our homes.</i></p> <p><i>I believe the residents, rightly have concerns regarding the effects of the existing waste on local resident's health and also on the wildlife.</i></p> <p>Environment: <i>Natural outdoor spaces have a special quality to reduce stress, here in Helena Valley we look at mounds of RUBBISH and we are finding our life style here has become extremely stressful due to all of the above concerns.</i></p>	
---	--

	<p><i>What is the future for the Reserve Estate? Will you guarantee the mounds of rubbish will be removed as soon as possible for the health and safety of all of our residents? If so WHEN?</i></p> <p><i>This Environmental Mess has been allowed to go on far too long, what are you doing about it?</i></p> <p><i>A precedent needs to be set by the Mundaring Shire enforcing strict gridlines for all developers for the future. Planning should allow for nothing less than R20, with all estates having adequate POS, parking and bush fire safe exits included in the planning infrastructure for the future, before any further subdivisions can be endorsed.</i></p>	
<p>15.</p>	<p><i>The Department of Health's (DoH) comments are as follows:</i></p> <p>1. Medical Entomology</p> <p><i>The subject land is in a region that occasionally experiences significant problems with nuisance and disease carrying mosquitoes. These mosquitoes can disperse several kilometres from breeding sites and are known carriers of Ross River (RRV) and Barmah Forest (BFV) viruses. Human cases of RRV and BFV diseases occur annually in this general locality.</i></p> <p><i>The subject land is also within 3km of mosquito dispersal distance from mosquito breeding sites along the Helena River. Mosquitoes will disperse from these sites to the subject land under favourable environmental conditions. There may also be seasonal freshwater mosquito breeding habitat within proximity to the subject land. Additionally, there is the</i></p>	<p>Noted. The requirement for a mosquito management plan can be included as a condition for any future subdivision within the locality.</p>

	<p><i>potential for mosquitoes to breed in on-site infrastructure and constructed water bodies, if they are poorly designed.</i></p> <p><i>Prior to future development, the DoH recommends a mosquito management plan be developed and approved by the Shire of Mundaring, to ensure the risk to the community of exposure to nuisance and/or disease carrying mosquitoes is considered.</i></p> <p><i>The DoH has provided guides and templates for the development of suitable mosquito management plans to assist land developers meet these requirements.</i></p> <p><i>Please https://www.health.wa.gov.au/Articles/J_M/Mosquito-management for additional support.</i></p> <p>2. Drinking and Wastewater Management</p> <p><i>The DoH has no objection, subject to connection to drinking water and sewage services, provided by a licensed service provider.</i></p>	<p>Noted. Such matters would be considered by the WAPC at the subdivision stage.</p>
<p>16</p>	<p><i>The Department of Biodiversity, Conservation and Attractions (DBCA) has reviewed the ‘Lots 2, 3 and 6 Midland Road Helena Valley Structure Plan (Amendment No.1)’ report and supporting documents, including the Bushfire Management Plan (Western Environmental, 2024), Foreshore Management Plan (Emerge Associates, 2022), and Urban Water Management Plan (Development Engineering Consultants, 2024).</i></p> <p><i>State Planning Policy 3.7 – Planning for Bushfire Prone Areas (SPP 3.7) recognises the need to consider bushfire risk management measures alongside environmental, biodiversity, and conservation values. The associated Guidelines for Planning in Bushfire Prone Areas (Western Australian Planning Commission 2017) states that planning proposals</i></p>	<p>Noted. A balanced approach will be required for any updates to the FMP, UWMP and BMP at the subdivision approval stage, so that compliance with all relevant State Planning Policies can be achieved.</p>

<p><i>should satisfy bushfire protection requirements within the boundaries of the land being developed so as not to impact on the bushfire and environmental management of neighbouring foreshore reserves.</i></p> <p><i>The Bushfire Management Plan (Western Environmental, 2024) (BMP) includes a Class A - Forest vegetation classification (post development) for the Kadina Brook foreshore reserve. DBCA supports this approach as it recognises the intended rehabilitation and enhancement of the foreshore area. However, the area identified as plot 8 which includes the parks and recreation reserve (or 'regional open space') (P&R) within the Swan Canning development control area (DCA) within the north section of the development area has been excluded from classification. Furthermore, the P&R within the DCA and Helena River foreshore is partially classified as Class A - Forest (Plot 1 and 3) and Class G – Grassland (Plot 6). Parks and Recreation reserve should be classified as Class A – Forest to not impede the ability for the foreshore to be revegetated in the future.</i></p> <p><i>DBCA has considered the proposal against State Planning Policy 2.10: Swan-Canning River System and Swan River Trust and DBCA policies and has no objections to the proposed amendment, subject to updates to the BMP to reflect the P&R within the development area and within the DCA as Class A - Forest prior to the approval of SP71 amendment.</i></p> <p><i>The following issues should be addressed prior to subsequent subdivision applications to allow for revision of the proposed subdivision layout.</i></p> <p><i>Foreshore and Urban Water Management</i></p> <p><i>DBCA supports the protection of foreshore areas as 'Parks and Recreation' (P&R) reserves under the MRS. These reserves provide an important buffer to urban development, protect the waterway environment and associated</i></p>	<p>In accordance with the DBCA's comments, an updated BMP was provided by the applicant which shows the areas concerned being Class A – Forest (refer to Attachment 5 for the report being presented to Council).</p> <p>The comments received from the DBCA have been forwarded to the applicant so they can be addressed prior to any subsequent subdivision applications (as requested in the DBCA's submission), should the proposed amendments to SP71 be approved by the WAPC.</p>
--	--

<p><i>landscape values and provide opportunities for comprehensive and coordinated foreshore management. The Kadina Brook is an important tributary for the Helena River and should therefore be reserved for P&R under the MRS rather than 'Recreation' under the Local Planning Scheme.</i></p> <p><i>DBCA supports the revegetation of the foreshore reserve, however, the riparian vegetation or 'revegetation area 1' as noted in the Foreshore Management Plan (FMP) should be planted at a density of five sedges/rushes per metre squared in accordance with Best Management Practices for Foreshore Stabilisation (Swan River Trust, 2009). Additionally, the foreshore reserve should be revegetated in accordance with the Swan Vegetation Complex and the FMP should further detail planting densities and species.</i></p> <p><i>The proposed swales within the public open space (POS) as indicated on Figure 6 in the FMP have not been included in the Urban Water Management Plan (UWMP). The UWMP states the benefits of excluding drainage infrastructure from the POS, which would provide for "a greater proportion of useable area." If swales are required in the POS, further detail is required on how the swales will alter the proposed stormwater management systems, inclusive of what finished levels and earthworks are required. Significant variation in levels between the POS and foreshore reserve will result in unsatisfactory outcomes for drainage, amenity and increased erosion risk. Retaining should not be used where possible to allow for a gentle grade to the foreshore reserve and outlets from the swales to mimic natural hydrology. Swale and/or basin outlets are to be via vegetated overland flow.</i></p> <p><i>An updated UWMP should also provide the post development flow rates (for the 20% AEP and 1% AEP) from the swales (POS) and the post-development peak flow rates and total volume runoff for the critical 1 exceedance per year (EY) event to the Kadina Brook. As previously</i></p>	
---	--

	<p><i>advised, maintenance of the 1EY event flow rates and volumes are important for protecting the ecological values of the Kadina Brook and Helena River, by maintaining the pre-development hydrological regime and the stability and form of the two waterways.</i></p> <p><i>The FMP notes an indicative location of firebreaks. Firebreaks should avoid crossing of Kadina Brook. In the event crossings are unavoidable, they should be designed to allow for passage of fauna without restricting flow. Further detail on the design of culverts and crossings should be provided in the updated FMP for approval by DBCA.</i></p> <p>Perimeter road</p> <p><i>The proposed subdivision layout does not include a perimeter road around the north-western lots abutting the reserve for recreation and P&R. Consistent with the objectives of Liveable Neighbourhoods Element 4 (WAPC, 2009), a road should be provided to the north-eastern portion of the development area to provide access and allow for residential buildings to overlook and provide passive surveillance of the reserves. A perimeter road would improve access and permeability across the site and provide a bushfire buffer between the land outside of the Structure Plan area and the development within.</i></p>	
17	<p>Assessment</p> <ul style="list-style-type: none"> • <i>DFES acknowledges that proposed LSP amendment seeks to rezone portions of the subject site from 'Development', 'Public Open Space / Drainage' and 'Rural Residential' to 'Residential' and 'Recreation'.</i> • <i>DFES notes that the BMP was prepared to address the 2024 version of SPP 3.7 and the Guidelines and was submitted to the decision maker before 18 November 2024. Nevertheless, the decision maker has</i> 	Please refer to the Comment section of the report being presented to Council.

	<p><i>agreed for DFES to assess the BMP in accordance with the 2024 SPP 3.7 and Guidelines.</i></p> <ul style="list-style-type: none"> <i>Further clarification is required within the BMP of the requirements of SPP 3.7, and the supporting Guidelines as outlined in our assessment below.</i> <p>Vegetation Exclusion</p> <p><i>Proposed ROS and POS – post development Plot 8. The area contains Class A Forest as shown in Figure 5 and it is unclear how this can be maintained to low threat status in perpetuity as per AS3959. The POS also includes the Kadina Brook Foreshore Management Plan (FMP) area, which is likely to revegetate to Class A Forest (refer to comments from DFES’ Bushfire Technical Services branch in the section below titled ‘Internal Referral Comments’).</i></p> <p><i>Existing Drainage Swale – photographic ID 25 shows a managed public parkland near the intersection of Delbi Way and Allamanda Gate. However, an existing drainage swale immediately north of the parkland is excluded as low threat, without the support of photographic evidence. Aerial image shows that the drainage swale is surrounded by dense vegetation.</i></p> <p><i>An enforceable mechanism is required to provide certainty that the proposed management measures can be achieved in perpetuity and that they are enforceable for all excluded areas.</i></p> <p><i>If unsubstantiated, the vegetation should be classified as per AS3959, or the resultant BAL ratings may be inaccurate.</i></p>	
--	---	--

	<p>Land Contour</p> <p><i>Topographic contours have not been clearly provided in the BMP to allow the proposed slopes to be validated. In accordance with A3.5 of Annexure A, land contour information should be overlaid on the vegetation assessment map.</i></p> <p>Location</p> <p><i>The BMP states that as the current LSP has been assessed against the previous State Planning Policy 3.7 Planning in Bushfire Prone Areas (SPP 3.7 2015), it is exempt from the assessment of Element 1 of the current Guidelines, in accordance with Section 1.3.1 of the Guidelines.</i></p> <p><i>DFES notes that the current LSP was endorsed by the Western Australian Planning Commission in 2016. The decision maker needs to be satisfied that the LSP was previously assessed against SPP 3.7 2015, otherwise the BMP should address Element 1 of the current Guidelines.</i></p> <p>Siting and Design</p> <p><i>The BAL ratings cannot be validated, as the vegetation classification inputs require clarification/modification as per the above table.</i></p> <p><i>Furthermore, the BMP proposes a 21metre wide APZ within the ROS and FMP area. As these public open space areas are unlikely to remain in private ownership post subdivision, it is unclear how the APZ can be maintained in perpetuity</i></p>	
--	--	--

	<p>Vehicular Access</p> <ul style="list-style-type: none"> • <i>The BMP states that compliance has been achieved, however while Figure 7 demonstrated public road access and egress in different directions, it has not identified at least two suitable destinations.</i> • <i>The proposed lot layout shows two no-through roads at the northwestern corner and the eastern portion respectively.</i> <p><i>As no-through roads reduce the legibility of a road network and options available for access and egress in the event of a bushfire emergency, they should be avoided within subdivision or structure plans designs in the first instance.</i></p> <ul style="list-style-type: none"> • <i>Lots 79, 80, 86, 87, 88 and 89 are abutted by classifiable vegetation however a perimeter road is not proposed.</i> <p><i>The BMP states that Lots 86 – 89 are zoned rural residential and that Lot 79 is abutted by low threat vegetation, so that a perimeter road is not required. However, DFES notes that all these lots are proposed to be zoned 'Residential' under the proposed LSP amendment, and that it is unclear if the vegetation on the proposed POS and ROS can be managed to low threat status, as mentioned in the table above.</i></p> <p><i>Accordingly, hazard separation in the form of a perimeter road is considered necessary between these lots and the adjoining classifiable vegetation.</i></p> <ul style="list-style-type: none"> • <i>The subdivision layout shows four battleaxe lots being Lots 123, 125, 127 and 129.</i> 	
--	--	--

	<p><i>In bushfire prone areas battleaxe lots should only be considered where it is demonstrated that they cannot be avoided due to site constraints.</i></p> <p><i>The BMP has not identified any site or design constraints nor provided justification for the need of battle-axe legs.</i></p> <p>Internal Referral Comments</p> <p><i>DFES has referred the proposal internally to other branches, with the below additional comments received from the Bushfire Technical Services branch. The POS adjacent to the Kadina Brook foreshore reserve will likely revegetate to Class A Forest for the following reasons:</i></p> <ul style="list-style-type: none"> <i>• The natural vegetation of the area was Class A Forest, demonstrating its potential revegetation to Class A Forest.</i> <i>• The foreshore reserve is adjacent and provides a seed source for the spread of Class A Forest.</i> <i>• The FMP includes trees planted every 20 metres, which will result in a tree canopy cover of greater than 30%.</i> <i>• The FMP includes grasses and shrubs not maintained to a recognised low-threat condition of below 10 centimetres in height.</i> <i>• The FMP includes claims not supported by evidence such as the use of 'native low fire threat shrub planting' based on the opinion of a consultant bushfire assessor (Page 10 of the FMP). Independent scientific evidence should be provided to the decision maker to support the claim that native low fire threat shrub planting, as a recognised and demonstrated construct, is achievable and viable for this site.</i> <i>• The area is unlikely to have a permanent water source to maintain irrigated turfed areas.</i> 	
--	--	--

<p>Recommendation – not compliant with acceptable solutions</p> <p><i>It is considered that the proposed LPS amendment is not compliant with Element 3: Vehicular Access of Bushfire Protection Criteria 5: Structure plans and subdivision applications.</i></p> <p><i>If the decision maker is inclined to approve the proposal the above assessment of compliance with SPP 3.7 and the Guidelines is provided to assist decision making.</i></p> <p>In response to the above submission, an updated bushfire management plan from the applicant and correspondence from the applicant’s Bushfire Consultant were referred back to the DFES for its consideration. In response, the DFES advised the following:</p>								
<table border="1"> <thead> <tr> <th>Issue</th> <th>Assessment</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td data-bbox="450 788 580 1029"> Vegetation Exclusion </td> <td data-bbox="584 788 1016 1029"> DFES’ Previous Comments: Evidence to support the exclusion of the Public Open Space (POS) and Regional Open Space (ROS) as managed to low threat in accordance with AS3959 is required. Specifically: <ul style="list-style-type: none"> Proposed ROS and POS – post development Plot 8. The area contains Class A Forest as shown in Figure 5 and it is unclear how this can be maintained to low threat status in perpetuity as per AS3959. The POS also includes the </td> <td data-bbox="1021 788 1160 1029"> The decision maker to be satisfied with the vegetation exclusions and vegetation management proposed. </td> </tr> </tbody> </table>	Issue	Assessment	Action	Vegetation Exclusion	DFES’ Previous Comments: Evidence to support the exclusion of the Public Open Space (POS) and Regional Open Space (ROS) as managed to low threat in accordance with AS3959 is required. Specifically: <ul style="list-style-type: none"> Proposed ROS and POS – post development Plot 8. The area contains Class A Forest as shown in Figure 5 and it is unclear how this can be maintained to low threat status in perpetuity as per AS3959. The POS also includes the 	The decision maker to be satisfied with the vegetation exclusions and vegetation management proposed.		
Issue	Assessment	Action						
Vegetation Exclusion	DFES’ Previous Comments: Evidence to support the exclusion of the Public Open Space (POS) and Regional Open Space (ROS) as managed to low threat in accordance with AS3959 is required. Specifically: <ul style="list-style-type: none"> Proposed ROS and POS – post development Plot 8. The area contains Class A Forest as shown in Figure 5 and it is unclear how this can be maintained to low threat status in perpetuity as per AS3959. The POS also includes the 	The decision maker to be satisfied with the vegetation exclusions and vegetation management proposed.						

		<p>Kadina Brook Foreshore Management Plan (FMP) area, which is likely to revegetate to Class A Forest (refer to comments from DFES' Bushfire Technical Services branch in the section below titled 'Internal Referral Comments').</p> <ul style="list-style-type: none"> Existing Drainage Swale – photographic ID 25 shows a managed public parkland near the intersection of Delbi Way and Allamanda Gate. However, an existing drainage swale immediately north of the parkland is excluded as low threat, without the support of photographic evidence. Aerial image shows that the drainage swale is surrounded by dense vegetation. <p>An enforceable mechanism is required to provide certainty that the proposed management measures can be achieved in perpetuity and that they are enforceable for all excluded areas.</p> <p>If unsubstantiated, the vegetation should be classified as per AS3959, or the resultant BAL ratings may be inaccurate.</p> <p>DFES' updated Comments: DFES maintains that the ROS and POS in question may not be able to be managed to low treat in perpetuity as per AS3959, due to the existing Class A Forest vegetation onsite and the revegetation potential of these areas (refer to updated comments from DFES' Bushfire Technical Services branch in the section below titled 'Internal Referral Comments').</p> <p>Accordingly, DFES' previous comment remains unchanged.</p>		
	<p>Effective Slope – Land Contour</p>	<p>DFES' Previous Comments: Topographic contours have not been clearly provided in the BMP to allow the proposed slopes to be validated. In accordance with A3.5 of Annexure A, land contour information should be overlaid on the vegetation assessment map.</p> <p>DFES' updated Comments: DFES acknowledges that the required topographic contour information has been added on Figure 4 and has no further comment to make.</p>	<p>No further action required on BMP.</p>	

2. Policy Measure 7.1 (ii)(e) Compliance with the Bushfire Protection Criteria – 5: Structure Plan and Subdivision Applications		
Element	Assessment	Action
	<p>Similarly, while the bushfire practitioner's response states that both the local government and DBCA are supportive of the concept FMP which is likely to be enforceable as a condition of subdivision approval, DFES notes that the APZ is not shown on the submitted FMP, and it is unclear whether the local government is aware of and will accept management responsibility of the APZ in perpetuity.</p> <p>As the revised BMP proposes implementation and vegetation management responsibilities to be undertaken by State and local governments, evidence is required that the relevant state and local governments are made aware of and accept such responsibilities.</p> <p>Accordingly, DFES' previous comment remains unchanged.</p>	
Vehicular Access	<p>DFES' Previous Comments:</p> <p>A3.2 – not demonstrated The BMP states that compliance has been achieved, however while Figure 7 demonstrated public road access and egress in different directions, it has not identified at least two suitable destinations.</p> <p>A3.3a – does not comply The proposed lot layout shows two no-through roads at the northwestern corner and the eastern portion respectively.</p> <p>As no-through roads reduce the legibility of a road network and options available for access and egress in the event of a bushfire emergency, they should be avoided within subdivision or structure plans designs in the first instance.</p>	Does not comply.

		<p>A3.5a & A 3.5b – does not comply Lots 79, 80, 86, 87, 88 and 89 are abutted by classifiable vegetation however a perimeter road is not proposed.</p> <p>The BMP states that Lots 86 – 89 are zoned rural residential and that Lot 79 is abutted by low threat vegetation, so that a perimeter road is not required. However, DFES notes that all these lots are proposed to be zoned 'Residential' under the proposed LSP amendment, and that it is unclear if the vegetation on the proposed POS and ROS can be managed to low threat status, as mentioned in the table above.</p>		
		<p>Accordingly, hazard separation in the form of a perimeter road is considered necessary between these lots and the adjoining classifiable vegetation.</p> <p>A3.6 – does not comply The subdivision layout shows four battleaxe lots being Lots 123, 125, 127 and 129.</p> <p>In bushfire prone areas battleaxe lots should only be considered where it is demonstrated that they cannot be avoided due to site constraints.</p> <p>The BMP has not identified any site or design constraints nor provided justification for the need of battle-axe legs.</p> <p>DFES' updated Comments: A3.2 – Access routes A suitable destination in accordance with B.3.2 of Annexure B of the Guidelines, refers to an area that is not designated bushfire prone on the Map of Bush Fire Prone Areas and can provide protection during and after a bushfire event. Figure 7 of the revised BMP demonstrates that the public road network leads to two areas that are not designated bushfire prone, however the Parkview Gardens direction points to a local reserve (Broz Park) which does not appear to be able to provide bushfire protection during and after a bushfire event.</p> <p>DFES recommends that the BMP be modified to identify at least two suitable destinations, compliant with the Guideline requirements, in different directions.</p>		

		<p>A3.3a No-trough roads DFES acknowledges that the no-through road on the eastern portion is existing and not more than 200 metres from an intersection where two-way access is provided. However, the inclusion of a new no-through road in the northwestern portion within the structure plan design, should be avoided in the first instance, in accordance with B.3.3, Annexure B of the Guidelines. Accordingly, compliance with A3.3a is not considered satisfied.</p> <p>A3.5a Perimeter roads and A3.5b Fire service access routes The bushfire practitioner's response states that a perimeter road is not required as:</p> <ul style="list-style-type: none"> • The land abutting Lots 79, 80, 86-89 will be developed and maintained to low threat standards. • It will require redesign to a subdivision that is already under construction. 		
		<ul style="list-style-type: none"> • The previously approved subdivision includes lots abutting the POS/ROS without perimeter roads. <p>As per DFES' comments above, the land abutting these lots is not considered managed to low threat and it is unclear whether the State and local governments will agree to the future management responsibilities imposed by the revised BMP.</p> <p>DFES understands that the previously approved subdivision WAPC Ref 15699 appears to apply to stages 1 – 3 of the overall subdivision, and that it does not appear to have been referred to DFES for comment. In accordance with Clause 5.4 of the Guidelines, compliance with the bushfire protection criteria should be demonstrated for each stage of a staged subdivision. As the current LSP amendment seeks to guide the subdivision and development of Stage 4 of the overall subdivision, DFES is of the opinion that the current stage subdivision layout should demonstrate compliance with the bushfire protection criteria by providing a perimeter road or fire safety access route at this location to provide separation between the proposed residential lots and classifiable vegetation, in accordance with A3.5a or A3.5b.</p>		

	<p>A3.6 Battle-axe legs DFES acknowledges that the four battle-axe lots have been removed in the revised BMP and recommends the LSP amendment documentation be updated accordingly for consistency. DFES has no further comment on A3.6.</p> <p>Accordingly, DFES' previous comments on A3.2, A3.3a, A3.5a and A3.5b remain unchanged.</p>			
--	---	--	--	--

10.4 Tender Outcome - Supply of Prebooked Bulk Verge Collection Services

File Code	PR.RFT 10.2425
Author	Shane Purdy, Director Infrastructure Services
Senior Employee	Shane Purdy, Director Infrastructure Services
Disclosure of Any Interest	Nil
Attachments	1. Confidential Attachment Prebooked Bulk Verge Collections Recommendation Report (confidential)

PURPOSE

The Shire of Mundaring is reviewing its bulk waste collection services to identify the most optimal, sustainable, and cost-effective method for the community in response to the Community Plan priority project “Explore options to introduce an on-demand bulk waste collection service”. This report analyses the current scheduled verge side collection system against tendered pre-booked options (skip bins and on-verge collections) and evaluates their financial impacts. Key findings include significantly higher costs for tendered pre-booked services compared to the current system. The report presents several options for Council consideration and adoption.

BACKGROUND

A Request for Tender (RFT 14.2425) was called for the supply of Prebooked Bulk Verge Collection Services on 15 November 2024.

The tender requirements enabled all submitters to supply any form of prebooked service arrangement to enable Council to consider all options and associated costs of the offered services. An important component of the service will be the ability for Shire residents to prebook services. The supply of a booking system and a customer service interface for the booking system was therefore deemed highly desirable. The period of contract is for two years commencing 1 July 2025 with options for one year extensions that can be utilised no more than two times upon mutual agreement.

At the close on 12 December 2024 three submissions were received.

The published qualitative assessment criteria for the tender were as follows:

- Relevant Experience – 50%
- Tenderer’s Resources – 30%
- Waste Separation – 20%

Assessment of the submissions against the tender criteria were carried out by the tender assessment panel. The panel was comprised of the Shire’s Director Infrastructure Services, Co-ordinator Waste Services and Waste Supervisor.

The recommendation report of the assessment panel for the tender is included as **Confidential Attachment 1**. Copies of submissions are located in the Councillor Portal.

STATUTORY / LEGAL IMPLICATIONS

As the value of the project exceeds tendering thresholds, a public tender process in accordance with the *Local Government Act 1995* and Regulations was required.

The tender was advertised statewide, given more than the minimum time for response, and assessed in accordance with the *Local Government (Functions and General) Regulations 1996*.

POLICY IMPLICATIONS

Nil

FINANCIAL IMPLICATIONS

Estimated annual prices were determined based on an assumption of a 30% take up of the prebooked service, noting this can be as high as 40% based on feedback from other similar services provided at other Local Governments. Costs for disposal have been excluded in this analysis on the basis this would be similar for each currently being around \$330,000 (noting a prebooked service could result in a reduction of total waste collected by up to one third).

Company A – prebooked skip bins for one general waste and one greenwaste collection, one white goods, one mattress collection, no e-waste collection – estimated cost \$1,090,608.

Company B – prebooked verge collection for one general waste and one greenwaste collection, one white goods, one mattress collection, one e-waste collection – estimated cost \$997,355

Company C – prebooked verge collection for one general waste and one greenwaste collection, one white goods, one mattress collection, one e-waste collection – cost \$1,530,961

The cost for the 2024/25 year service for collection was \$528,165. To select the cheapest of the tenders would therefore be at an additional cost of approximately \$500,000 and would add approximately \$30 to the standard waste charge.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 2 - Sustainable Environments

Outcome 2.2. - Adopt sustainable waste management practices to strive for zero waste.

SUSTAINABILITY IMPLICATIONS

This tender aligns with the Shire's Council Plan 2024-2034, specifically the objective to "adopt sustainable waste management practices to strive for zero waste." The service provision also considers the WA Government's Waste Avoidance and Resource Recovery Strategy 2030, the Waste Management Hierarchy, and Better Practice Guidelines for verge side and drop-off services.

RISK IMPLICATIONS

Risk: Reputation - Not awarding the tender to a contractor may disenfranchise companies on future submissions.		
Likelihood	Consequence	Rating
Unlikely	Moderate	Moderate
Action / Strategy		
Explain reasons for not awarding a tender on this occasion.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	X
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	

EXTERNAL CONSULTATION

Nil.

COMMENT

The Shire currently offers one annual scheduled verge side bulk collection, including green waste, general waste, mattresses, and whitegoods. Residents can also utilise Community Recycling Centres for general waste, green waste, and recycling. The scheduled collection is contracted out, with materials processed and recycled where possible. There is one more one year extension option on the current contract that can be exercised should this be the preferred outcome.

Service Options:

Below is information on three different methods of bulk verge material collection:

1. **Scheduled Verge Collection (Current System):** While familiar and operationally efficient, this method suffers from visual amenity issues and increased illegal dumping. It also struggles to meet Better Practice Guidelines. Adjustments would be needed for future e-waste bans and potential collection timing changes due to Shire growth.
2. **Pre-booked Verge Collection via Skip Bin and part on-verge:** This option offers better visual amenity and potential for reduced waste, but has significant limitations on accepted items, potential for overflowing bins, safety concerns with loading, and reduced recycling capacity. It also introduces increased administration and software costs.

3. **Pre-booked Verge Collection (On-Verge):** This option allows for source separation, reduced illegal dumping, and improved resource recovery. It also offers convenient timing for residents. It also introduces increased administration and software costs.

Cost Analysis

Cost analysis reveals a significant increase in cost for the offered pre-booked options compared to the current scheduled service. The 2024/25 scheduled service bulk verge collection cost was \$528,165. A pre-booked skip bin and part verge collection is estimated at \$1,090,608 and pre-booked on-verge collection between \$997,355 and \$1,530,961. A previously explored EMRC pre-booked on verge service was estimated at \$496,332 but is no longer an option being explored given the withdrawal of the Shire from the EMRC.

Based on the EMRC work a prebooked service if undertaken in house by the Shire is likely to be delivered at a much cheaper cost than the tendered submissions and closer to that estimated by EMRC. Part of the reason for the higher tendered costs is the daily travel costs from base depots of the tenderers, whereas the Shire plant would be based in the Shire requiring much less travel to commence and return from operations.

Should Council wish to explore the potential for an in-house prebooked collection service, time will be required to provide detailed costings for plant and staffing requirements and then to procure the plant, software and staffing required. This will take at least 12 months. In the meantime, Council could exercise the option to continue the current contract for a scheduled service for a final year whilst a business case is developed and if supported plant and staffing secured to commence for the 2026/2027 year.

Alternatively, Council could award a contract to one of the companies for the initial period of two years to supply prebooked verge collection services from 1 July 2025 and reassess further during this contract.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council:

1. Not accept any tender for Request for Tender 10/2425 - Prebooked Bulk Verge Collection Services;
2. Execute the final one year extension option on the current contract RFT 07/2021 Bulk Verge Collection Services; and
3. Request the Chief Executive Officer to prepare a business case for in-house provision of prebooked bulk verge collection services for potential commencement in 2026/27.

10.5 Department of Local Government, Sport and Cultural Industries Consultation - Chief Executive Officer Key Performance Indicators and Online Registers

File Code	LS.ACT 4
Author	Garry Bird, Director Corporate Services
Senior Employee	Jason Whiteaker, Chief Executive Officer
Disclosure of Any Interest	Nil
Attachments	1. Draft Submission - DLGSC - CEO KPI and Online Registers ↓

PURPOSE

To endorse a draft submission into the Department Local Government, Sport and Cultural Industries (DLGSCI) in regard to proposed amendments to of the *Local Government Act 1995*.

BACKGROUND

The *Local Government Amendment Act 2023* (2023 Amendment Act) was passed by Parliament in May 2023. It implemented several key reforms, particularly relating to local government elections. The 2023 Amendment Act also brought about the following changes which are yet to commence:

- Requirements for local government CEO's performance criteria and performance reviews to be published.
- A requirement for local governments to publish and maintain registers on their website.

In order to implement these reforms, the WA Government has drafted the Local Government Regulations Amendment Regulations 2024 which will implement these reforms. These draft regulations are now available for public comment. The attached explanatory paper (**Attachment 1**) sets out what these regulations will require and intend to achieve.

The Department of Local Government, Sport and Cultural Industries (DLGSC) has invited local governments, council members, CEOs, local government employees and members of the community to consider the proposed regulations and provide feedback. The feedback received will inform the finalisation of draft regulations and the practical measures to implement and enforce the legislative requirements.

Where appropriate, officers have provided comment in regard to specific proposals in the Explanatory Paper.

Responses are due to be submitted to the DLGSCI by Thursday 8 May 2025.

STATUTORY / LEGAL IMPLICATIONS

Local Government Act 1995

POLICY IMPLICATIONS

Standards for CEO Recruitment Performance and Termination Policy (OR-35)

FINANCIAL IMPLICATIONS

Nil

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Nil

RISK IMPLICATIONS

Risk: Financial: The proposals introduced by DLGSCI do not reflect the Shire's views and practices and impact staff resourcing..		
Likelihood	Consequence	Rating
Almost Certain	Moderate	Moderate
Action / Strategy		
The draft submission is endorsed and submitted to the Department by the due date.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	✓
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	

EXTERNAL CONSULTATION

Council members were invited to provide comment on the proposals.

COMMENT

Where appropriate, officers have provided comment in regard to specific proposals in the Explanatory Paper.

In regards to the online registers, This will require additional officer time to ensure compliance which will be considered in greater detail when the detail of the new regulations is available.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council endorse the draft submission (**Attachment 1**).



CEO KPIs and online registers consultation

Local Government Reform



Draft Submission for consideration by Council

Background

The *Local Government Amendment Act 2023* (2023 Amendment Act) was passed by Parliament in May 2023. It implemented several key reforms, particularly relating to local government elections. The 2023 Amendment Act also brought about the following changes which are yet to commence:

- Requirements for local government CEO's performance criteria and performance reviews to be published.
- A requirement for local governments to publish and maintain registers on their website.

In order to implement these reforms, the WA Government has drafted the Local Government Regulations Amendment Regulations 2024 which will implement these reforms. These draft regulations are now available for public comment. This explanatory paper sets out what these regulations will require and intend to achieve.

The Department of Local Government, Sport and Cultural Industries (DLGSC) invites local governments, council members, CEOs, local government employees and members of the community to consider the proposed regulations and provide feedback. The feedback received will inform the finalisation of draft regulations and the practical measures to implement and enforce the legislative requirements.

Submissions can be made to DLGSC's Act Review team by:

- email to actreview@dlgsc.wa.gov.au or
- post to:
DLGSC Act Review — Consultation on regulations
PO Box 834G
PERTH BUSINESS CENTRE WA 684G

Your say and your privacy

Submissions will be treated as public documents unless explicitly requested otherwise. A summary of feedback will be released publicly after the consultation period has closed.

If you do not consent to your submission being treated as a public document, you should mark it as confidential, or specifically identify the confidential information, and include an explanation.

Please note, even if your submission is treated as confidential by DLGSC, it may still be disclosed in accordance with the requirements of the *Freedom of Information Act 1555* (WA) or any other applicable written law.

DLGSC reserves the right to redact any content that could be regarded as racially vilifying, derogatory or defamatory to an individual or an organisation.

Chief Executive Officer (CEO) matters

Part 2, Division 3 of the draft regulations makes amendments to the Local Government (Administration) Regulations 1GG6 (Admin Regulations) relating to local government CEOs. This will revise the existing local government CEO employment standards and allow for the publication of key performance indicators (KPIs) in relation to a CEO.

One of the fundamental roles of the council is the employment and management of the local government's CEO. These amendments seek to provide greater guidance and on issues of CEO contract renewal, CEO performance reviews and termination of CEO employment.

1. CEO employment standards (amending regulations 4, 7 to 14)

Schedule 2 of the Admin Regulations contains the model standards for CEO recruitment, performance and termination. The following key changes have been made to clarify the arrangements around the employment of a local government CEO:

- The independent member of a CEO selection panel cannot be a council member of another local government; and must be drawn from the list prepared by the Departmental CEO (Director General of DLGSC).
- Clarifying the requirement that if a CEO has held their position for 10 years or more, that their contract may not be varied to extend their term and may not be renewed unless a selection process for a CEO is undertaken and they are the successful candidate.
- Requiring a local government in addition to certifying that a recruitment or termination process was consistent with the CEO standards, that a CEO contract renewal was consistent with the standards.
- In order to facilitate the publication of CEO performance criteria and reviews, providing standards in respect of performance criteria.
- Inserting provisions to clarify the application of the standards to terminations during a probationary period.

The Director General will establish a pool of suitable people to be the independent member of a CEO selection panel which will be published on the DLGSC website. Additionally:

- To be appointed to the pool of potential independent members of a CEO selection panel, the members of that panel must give certain undertakings to the Director General regarding to manage conflicts of interest.
- The independent member of a CEO selection panel must declare their interest and resign from a CEO selection panel if they have what would be considered a financial or impartiality interest in that CEO selection process.
- The independent member of a CEO selection panel can be paid and reimbursed expenses as though they are an independent member of a committee.

Shire Comment

The proposals are generally supported and would provide further clarification and guidance regarding the CEO recruitment process and associated matters.

The exception to this would be the requirement for all local governments to appoint independent CEO Recruitment Committee members from a panel and no longer

being able to appoint members of the local community.

The Shire of Mundaring was one of the first local governments to undertake a CEO recruitment process using the new legislation and found the two local, independent members added great value to the Committee, bringing different perspectives and skills that enhanced the Committee's operations.

Local Governments should be able to appoint local community members providing they can demonstrate suitable experience and qualifications, similar to the appointment of independent members to the Audit and Risk Committee.

Recommendation

The proposed amendments are generally supported except for all independent CEO Recruitment Committee members being appointed from a panel maintained by the Department. While it is accepted this may be a suitable arrangement for many local governments, Shire's experience in appointing independent members from the local community was a positive and valuable exercise. Local Governments should be given the option of recruiting independent members from the local community assuming they can demonstrate suitable qualifications and experience.

Draft Submission for consideration

2. CEO KPIs (amending regulations 5, C and 13)

The CEO holds an important operational and financial role in the local government as head of the administration. Allowing the community to view progress against CEO KPIs is another measure of confidence to track how a local government is performing overall. CEOs will also be provided with the opportunity to respond to balance the equation. This approach recognises that complex factors may be at play, not all of which are within the CEO's control. By providing a standardised measurement methodology in the regulations, it will become easier to compare trends across the sector.

Clause 15A of the CEO standards in Schedule 2 will provide that a CEO performance criterion (both contractual and additional) must contain:

- the aspect of the CEO's role to which the performance criteria applies
- the indicator that will be used to assess the performance against that criteria
- the target to be achieved in order for the performance criteria to be met
- the evidence which will be used for determining whether the target is achieved.

New regulation 18AA has been inserted regarding the content of a CEO's performance review report, which must rate the following against each criterion:

- What was the target to be achieved?
- Was the target:
 - achieved
 - not achieved or
 - achievement could not be determined.
- If the target was not achieved, whether this was beyond the CEO's control and why?
- If no determination could be made, why?

Regulation 18FAA requires that the performance criteria of a CEO must be published with the minutes of the meeting of the council where criteria was approved, either as part of the CEO's contract approval, or as an approval of additional criteria.

Reports on the CEO's performance, including the CEO's response, are to be published with the minutes of the meeting at which that performance review was conducted.

Shire Comment

The proposals would generally enhance local government transparency and accountability however additional detail regarding how a performance management process arising from an annual performance review should be addressed.

It is generally accepted that the setting of CEO KPI's has been problematic for the sector as a whole and the proposals do provide a more consistent approach and appear to be requiring very specific and measurable criteria.

Recommendation

Support subject to further detail regarding how a performance management process for the CEO should be managed and reported, whilst maintaining confidentiality.

Draft Submission for consideration

Online registers

The 2023 Amendment Act inserted new section 5.G6B which will require local governments to maintain the following series of prescribed registers:

- leases that the local government is party to
- grants of money that a local government makes to other persons or businesses
- contracts for goods and services the local government is a party to
- development applicant contributions, accounting for funds collected such as cash-in-lieu for public open space and car parking.

These registers intend to provide transparency to the public and improve local government record keeping. All registers must be published on the local government's website and be updated every 3 months.

1. Leasing register (draft regulation 2GF)

The register of leases the local government is party to will include all leases, licences to occupy or tenancy agreements that are current or in holding over. It is intended to capture information regarding these leasing arrangements for public understanding of what the local government is using the community's property for. This register would include both where the local government leases property to other persons, or leases property from other persons.

The regulations will require a leasing register to capture the details of lease, licences to occupy and tenancy agreements that the local government is party to the:

- type of agreement (either a residential tenancy agreement, a retail shop agreement or another type of agreement)
- name of the parties to the agreement
- if the local government is the lessee or lessor
- address of that property or other details that identify the property
- a summary of the permitted use under the lease
- date the lease or licence was entered into
- details about when that lease might end, such as the original fixed expiry date, details of
- any extensions, or the grounds for which it might be terminated
- amount of rent payable on an annual basis for that lease or licence.

Where property is a residential tenancy, names of the tenants are not to be listed.

Shire Comment The need for such a register is questioned and some leases may contain relevant clauses that are best managed in a confidential manner (particularly commercial leases where there are performance related obligations).
Recommendation No objection

Draft Submission for consideration

2. Grants and sponsorship register (draft regulation 2GG)

The register of grants of money a local government gives out will also include sponsorship arrangements within the previous five-year period. This provides transparency to the community about where money is being spent for a purpose that does not always result in a return for the local government.

This register also addresses some of the matters arising from the Inquiry into the City of Perth around grants and sponsorship programs run by local governments.

Grants or sponsorships include monetary grants and in-kind grants such as free venue hire. This register also assumes that local governments are undertaking prudent governance measures in managing their grants and sponsorship including:

- having written agreements with the parties receiving grants or sponsorship
- requiring a grant or sponsorship recipient to acquit or otherwise report on the spending on the money to the satisfaction of the local government.

The regulations will require a grants and sponsorship register to capture the details of any grants or sponsorship the local government has provided and include the following details:

- the date the grant or sponsorship agreement was entered into
- a summary of the grant or sponsorship purpose
- the name of the grant or sponsorship recipient.
- the total value of the grant or sponsorship, including monetary value and any in-kind support or waiver of fees and charges provided by the local government
- the final report date (if any) for the recipient to report on their spending
- if that date has passed, whether relevant reports or acquittals have been received.

This register does not need to include sponsorship or grant agreements which are more than 5 years old or worth less than \$500.

Shire Comment
While information of this type is generally publicly available, a register would improve transparency and accountability, however will require additional officer time to administer.
Recommendation
Supported.

3. Applicant contributions register (draft regulation 2GH)

This register is for funds currently held by a local government that have arisen as a contribution from a development application, such as for public art, car parking, public open space or under a formal development contribution plan. It promotes good record keeping and transparency for the public and applicants in knowing that such money is being appropriately kept and spent.

The regulations will require a register of development contributions and cash in lieu payments to be kept and published, which must include the following details:

- name of the party that gave the money
- address or description of the development location
- contribution purpose
- contribution amount
- date of payment
- date the local government must spend the money by (if applicable)
- amount of interest earned
- list of each item (infrastructure or facility) the money was spent on, including the amount or percentage of the contribution that was attributed to that infrastructure or facility.

A local government may omit the money from the register 5 years after the contribution is no longer held in either its municipal, trust or reserve fund because it has been expended or refunded.

Shire Comment While information of this type is generally publicly available, a register would improve transparency and accountability, however will require additional officer time to administer.
Recommendation Supported.

4. Good and services contracts register (draft regulation 2GI)

This register is for goods and services contracts that a local government is party to. It includes all ongoing, active goods and services contracts.

Recommendation 288 of the *Inquiry into the City of Perth* recommended that this register covers contracts with a value of \$50,000 (GST inclusive) or more. It will cover all forms of goods and services contracts including those obtained in accordance with the local government's purchasing policy, through a public tender or a tender exemption.

The register promotes good record keeping, transparency for the public and allows potential suppliers and service providers sufficient time to plan when big contracts are advertised for tender.

The regulations will require a register of contracts for goods and services to be kept and published, which must include the following details:

- a) supplier name
- b) whether the contract arose from a tender process and if not, a summary of the method by which the supplier was chosen
- c) the contract start date
- d) a summary of the goods and services to be provided
- e) whether the contract has a fixed period, the date that period ends, including contract extensions
- f) contract variations, including when and for what purpose
- g) funds spent by the local government under that contract and the expected amount remaining to be paid.

Contracts worth less than \$50,000 do not need to be listed on the register. However, contracts with the same supplier with a similar purpose which cumulatively add up to \$50,000 need to be listed. Contracts that have ended do not need to be listed.

Shire Comment

The \$50,000 threshold is quite low and to maintain a register of this type will require quite significant officer time. Suggest the threshold could be \$250,000 in keeping with tender requirements.

Currently the Shire maintains a Contract register for all request for Tender and Request for Quotation processes but do not include other contracts that may exceed \$50,000 such as the utilities, insurances, purchase of plant, software licenses and preferred supplier arrangements.

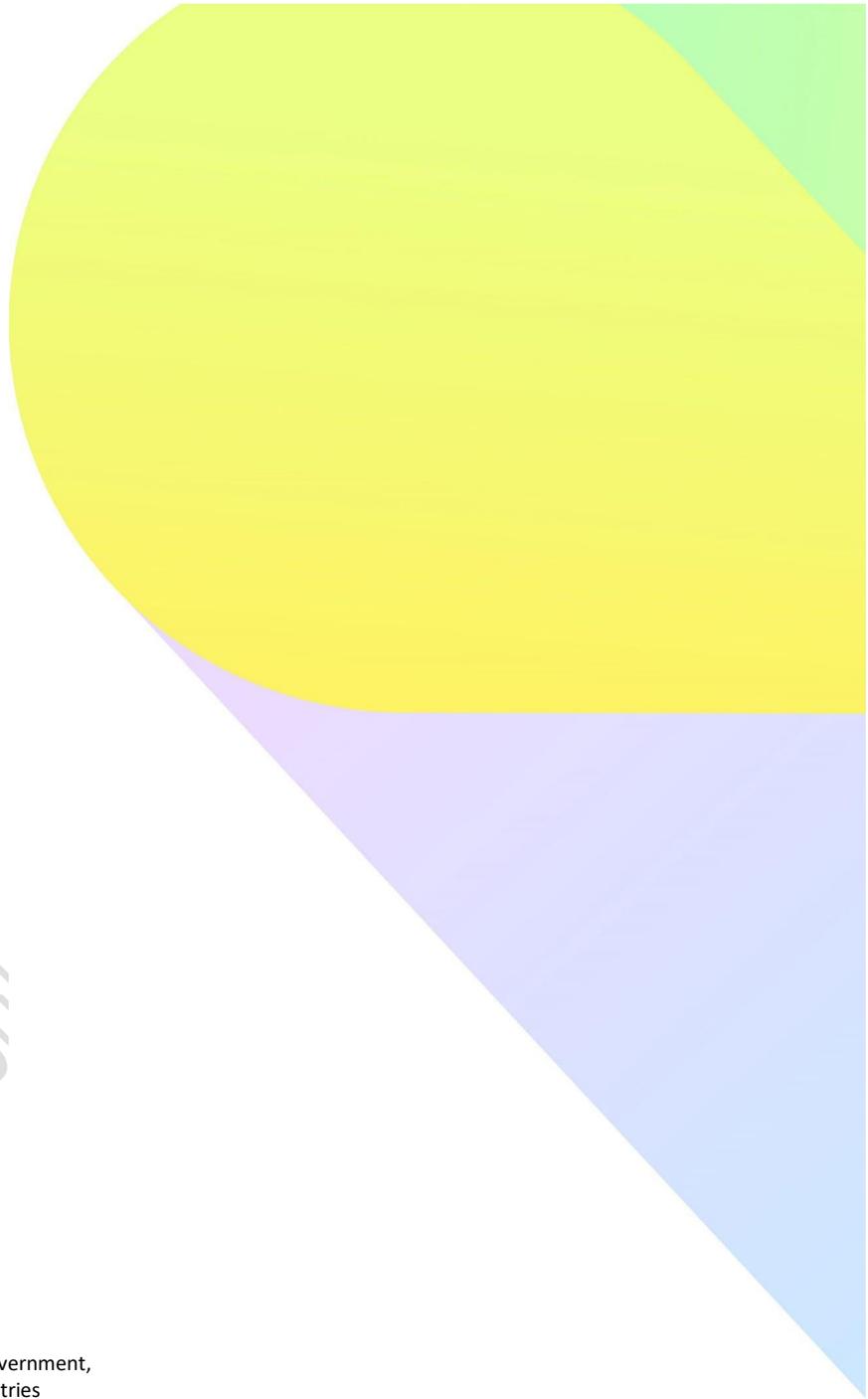
It is noted that all payments made by the Shire are presented to Council and available to members of the public.

The requirement to include cumulative payments that exceed \$50,000 will further increase the officer resourcing required.

Recommendation

That the threshold be increased to \$250,000.

Draft Submission for consideration



Draft S...

Department of Local Government,
Sport and Cultural Industries
PO BOX 834G
Perth Business Centre WA 684G
Email: actreview@dlgsc.wa.gov.au
Website: www.dlgsc.wa.gov.au

10.6 Mid-year Budget Review 2024/25

File Code	FI.BUD 24/25
Author	Stan Kocian, Manager Finance and Governance
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. Statement of Financial Activity - Mid-year Budget Review Year End Forecast ↓

PURPOSE

Council is requested to consider and adopt the budget review as presented in the Forecast Statement of Financial Activity (Rate Setting Statement) for the period 1 July 2024 to 31 January 2025.

BACKGROUND

It's a statutory requirement for a local government to undertake a formal review of its year-to-date performance against the estimates disclosed in its adopted annual budget at least once a year.

STATUTORY / LEGAL IMPLICATIONS

The *Local Government (Financial Management) Regulations 1996*, regulation 33A, requires local governments to conduct a budget review between 1 January and the last day of February in each financial year. The review of the annual budget must be submitted to the Council on or before 31 March and subsequently provided to the Department within 14 days of Council having considered the review.

POLICY IMPLICATIONS

Nil

FINANCIAL IMPLICATIONS

Financial implications are addressed in the comment section of this report.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Budget parameters are structured on financial viability and sustainability principles.

RISK IMPLICATIONS

Risk: Financial - Adverse budget trends are not identified and addressed by Council.		
Likelihood	Consequence	Rating
Possible	Moderate	Moderate
Action / Strategy		
Monitoring the financial comparisons of actuals to budgets provides for prudent financial management, ensuring the Council is made aware of potential or known financial risks in terms of the 2024/25 budget.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	✓

EXTERNAL CONSULTATION

Nil

COMMENT

The mid-year review assessed whether there are any anticipated adverse impacts on the 2024/25 budget at this stage of the financial year. Overall, there is an increase of \$65,000 to the Shire's forecast closing budget position for 2024/25; from a budgeted surplus/deficit of Nil (as per the adopted annual budget (SC4.07.24) to a revised forecast surplus of \$65,000.

The major impacts of the budget review are:

Opening Budget Surplus

There was a variance of \$1.5 million between what was forecast in the 2024/25 budget as the carried forward surplus (\$8.8 million) from 2023/24 and what the actual closing surplus as at 30 June 2024 was (\$7.3 million).

The forecast carried forward surplus of \$8.8 million in the budget was comprised of advance payments of the Financial Assistance Grants (\$2.9m), the municipal funding requirements of the carried forward capital works (\$2.1m) and \$3.8 million in untied funds. As 100% of the untied surplus was allocated to be transferred to reserves in the budget, the reduction in the surplus will not have any impact on rates or projects. The recommended course of action to address the variance, which is an adjustment in the mid-year budget review, is to reduce the transfer to the Civic Facilities Reserve.

The reasons for the difference in the forecast and actual result for 23/24 are:

- Year-end accruals for employee costs were underestimated in the forecast.
- The forecast for materials and contracts was underestimated.

- The forecast for utility expenses was underestimated.
- The forecast for capital grant revenue was overestimated.
- The forecast amount to be transferred from reserves was overestimated.

Revenue from operating activities

Forecast revenue from operating activities has increased by \$838,801 compared to the original budget (Adopted budget \$55,738,184, revised forecast \$56,576,985).

The significant changes in forecasts for revenue from operating activities are:

Rates - forecast increase of \$151,303

The total budget for interim rates revenue during 2024/25 is \$162,527, however the year-to-date actual is \$313,828. The revised year-end-forecast has been adjusted by \$151,301.

Operating Grants, subsidies and contributions – forecast increase of \$201,197

1. A forecast increase forecast of \$103,548 in grant funding from the WA Local Government Grants Commission (Grants Commission), from a budget of \$330,628 to a revised forecast of \$434,476, which reflects the actual amount to be received in 2024/25 (confirmed 18 October 2024).
2. A forecast increase of \$82,953 for the urban greening project grant that was not anticipated in the budget. The increase in income will be offset by corresponding increases in expenditure.

Fees and charges – forecast increase of \$158,173

1. A forecast increase of \$125,000 in revenue for requests for additional domestic general waste bins, which reflects the actual year-to-date revenue of \$180,000.
2. A forecast increase of \$90,000 in revenue for planning development applications, the revised year-end forecast is \$260,000.

Interest Revenue – forecast increase of \$108,000

1. A forecast increase of \$88,000 for interest earnings on municipal funds, increasing the year-end forecast to \$688,000.
2. A forecast increase of \$20,000 for interest on outstanding rates, increasing the year-end forecast to \$290,000.

Other Revenue – forecast increase of \$220,128

1. A forecast increase of \$56,780 for Container Deposit Scheme revenue, increasing the year-end forecast to \$420,000.
2. A forecast increase of \$27,500 in dividend received from the EMRC increasing the year-end forecast to \$677,500, which is the actual amount that was received and to be transferred to the Waste Management Reserve.
3. A forecast increase of \$25,000 for revenue from the sale of materials recovered from kerbside recycling bin services, increasing the year-end forecast to \$65,000.
4. A forecast increase of \$22,700 for lease revenue from 21 Chidlow St in Mt Helena, for the communications tower at Elsie Austin Oval which was inadvertently missed in the budget.

Expenses from operating activities

Forecast expenses from operating activities have increased by \$1,408,470 compared to the original budget (Adopted budget \$61,896,171 revised forecast \$63,304,641).

The significant changes in forecasts for expenses from operating activities are:

Materials and contracts - forecast increase of \$1,167,929

1. A forecast increase of \$886,240 in materials and contracts expenses for the provision of waste services, increasing the year-end forecast to \$9,295,808.

The forecast increases in costs for waste services has been caused by several factors:

- a) Waste collection expenditure of \$165,330 relating to quarter 4 of 2023/24 was paid in 2024/25, which was not included in budget.
- b) Additional expenditure in relation to collection of general waste bins in first month to assist with transition to FOGO not budgeted for.
- c) Additional expenses than budgeted related to change over of red lids on general waste bins
- d) Increase in demand for additional general waste bins as result of FOGO, resulting in additional expenditure (offset by associated additional income).
- e) Higher than budgeted FOGO expenditure due to higher tonnages than budgeted (this potentially is partially offset by less green waste processing at community recycling centres, however green waste from storm events will impact that reduction).

The net increase in waste services expenditure will be funded by an additional transfer from the waste management reserve.

2. A forecast increase of \$82,953 for the urban greening project expenses that were not anticipated in the budget. The increase in expenses will be offset by corresponding increase in grant income.
3. A forecast increase of \$100,000 in expenses associated with the screening of materials from road and drainage works, increasing the year-end forecast to \$400,000.

Depreciation on non-current assets - forecast increase of \$209,590

A forecast increase of \$209,590 in the depreciation expenses for property, plant and equipment, from a total budget of \$3,108,012 to a revised forecast of \$3,317,602. This is due to the total depreciation expense being underestimated in the budget. It should be noted that as depreciation is a noncash item it has no impact on the closing budget surplus (i.e. depreciation is excluded from the rate setting statement).

Investing Activities (activities relating to capital works program)

Forecast net expenses from investing activities has increased by \$242,037 compared to the original budget (Adopted budget \$10,027,754, revised forecast \$10,269,791).

The significant changes in forecasts for investing activities are:

Payments for property, plant equipment and infrastructure - forecast increase of \$262,960

1. A forecast increase of \$292,614 in expenditure on the upgrade of the Bilgoman changerooms, kiosk and office. The original budget for 2024/25 was \$320,000 and the increase in expenditure is due to unbudgeted carried forward works from 2023/24. The total project costs will be \$940,169. The forecast increase will be funded from the Capital Income Reserve.
2. A forecast increase of \$283,206 in expenditure for accessibility works at Parkerville Hall, which is due to unbudgeted carried forward works from 2023/24.
3. A forecast increase of \$152,370 in expenditure for accessibility works at Glen Forrest Hall, which is due to unbudgeted carried forward works from 2023/24.
4. A forecast increase of \$181,500 in expenditure for an emergency generator at Mundaring Arena as resolved by Council in October (C17.10.24). The Generator is fully funded by a grant (\$96,500) and a transfer from the Capital Income Reserve (\$85,000).
5. A forecast increase of \$90,646 in expenditure for the extension of the pergola for Mundaring Recreation Pavilion, which is due to unbudgeted carried forward works from 2023/24. This increase in expenditure will be funded by a transfer from the Capital Income Reserve.
6. A forecast increase of \$90,156 in expenditure for works related to the renewal of a section of Morrison Road, which is due to unbudgeted carried forward works from 2023/24.
7. A forecast increase of \$84,180 in expenditure for reticulation works at Sawyers Valley Oval, which increases the forecast from an original budget of \$120,000 to \$204,180. This increase in expenditure will be funded by a transfer from the Capital Income Reserve. The reason for cost increase is that the actual cost was significantly higher than anticipated and forecast in the budget, which was based on past reticulation works.
8. A forecast increase of \$65,000 in expenditure for design works to upgrade the changerooms at Mt Helena Oval, which increases the forecast from an original budget of \$65,000 to \$130,000. This increase in expenditure will be funded by a transfer from the Capital Income Reserve. A significant factor in the cost increase was the need to extend the building because of the building certifying requirements and relevant standards that changed after the design concepts and estimates were completed.
9. A forecast increase of \$50,000 in expenditure for drainage works at Swayers Valley Oval, which increases the forecast from an original budget of \$230,000 to \$280,000. This increase in expenditure will be funded by a transfer from the Capital Income Reserve.
10. A forecast increase of \$25,533 in expenditure for footpath works on Innamincka Road, which is due to unbudgeted carried forward works from 2023/24.
11. A forecast increase of \$24,805 in expenditure for footpath works on Railway Terrace, which is due to unbudgeted carried forward works from 2023/24.

12. A forecast increase of \$24,294 in expenditure for footpath works on Honeyeater Glade, which is due to unbudgeted carried forward works from 2023/24.
13. A forecast decrease of \$15,000 in expenditure for a new storage shed at the Station Masters house as the works will be carried over to 2025/26.
14. A forecast decrease of \$50,000 in expenditure for the installation of roof access walkways at Mundaring Arena as the works will be carried over to 2025/26.
15. A forecast decrease of \$272,000 in expenditure for works at the Brown Park Community Centre (funded by the Capital Income Reserve) as the works will be carried over to 2025/26. This project has been rescheduled to 2025/26 due to the lack of capacity and resources to be able to complete the works this financial year.

Financing Activities (activities relating to loans and cash backed reserves)

The significant changes in the forecasts for financing activities are:

Transfers from reserve accounts - forecast increase of \$648,694

1. A forecast increase of \$615,440 in transfers from the Capital Income Reserve to fund increases in expenditure for capital works as detailed under "Payments for property, plant equipment and infrastructure".
2. A forecast increase of \$102,000 in transfers from the Long Service Leave to fund Long Service Leave taken by employees during 2024/25.
3. A forecast increase of \$555,585 in transfers from the Waste Management Reserve to fund the forecast increases in materials and contracts for the provision of waste services.

Transfers to reserve accounts - forecast decrease of \$1,537,955

The transfer to the Civic Facilities Reserve will be reduced by \$1,506,455 from a budgeted amount of \$3,593,525 (excluding interest earned) to a revised forecast of \$2,087,070. This adjustment primarily reflects the variance between the budgeted brought forward surplus for 2023/24 and the actual brought forward surplus for 2023/24.

Forecast closing budget surplus

The forecast closing surplus of \$65,000 at the end 2024/25 reflects the municipal funding required to be available to fund the capital works that have been forecast to be carried forward to 2025/26.

VOTING REQUIREMENT

Absolute Majority - *Local Government (Financial Management) Regulations 1996* regulation 33A

OFFICER RECOMMENDATION

That Council:

1. approves, by absolute majority in accordance with regulation 33A of the *Local Government (Financial Management) Regulations 1996*, the mid-year budget review as per the forecast figures disclosed in the attached Statement of Financial Activity (**Attachment 1**);
2. notes the change in the forecast closing budget surplus/deficit from Nil to a surplus of \$65,000; and
3. notes the forecast changes under the officer's comments in the report, which form part of the annual budget review for 2024/25.

**SHIRE OF MUNDARING - BUDGET REVIEW
STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 31 JANUARY 2025**

	Adopted Budget (a)	YTD Budget (b)	YTD Actual (c)	Revised Budget (d)	Variance \$ (a) - (d)
	\$	\$	\$	\$	\$
OPERATING ACTIVITIES					
Revenue from operating activities					
General rates	33,831,164	33,749,901	33,982,464	33,982,467	151,303
Grants, subsidies and contributions	4,455,491	2,702,551	3,045,638	4,656,688	201,197
Fees and charges	12,754,045	10,816,934	11,232,547	12,912,218	158,173
Interest revenue	2,420,000	1,411,660	1,579,244	2,528,000	108,000
Other revenue	2,119,965	1,481,573	1,718,674	2,340,093	220,128
Profit on asset disposals	157,519	0	50,305	157,519	0
	55,738,184	50,162,619	51,608,872	56,576,985	838,801
Expenditure from operating activities					
Employee costs	(24,770,447)	(15,197,828)	(14,794,862)	(24,770,447)	0
Materials and contracts	(23,824,785)	(13,980,621)	(14,708,781)	(24,992,714)	(1,167,929)
Utility charges	(1,354,833)	(790,663)	(658,272)	(1,389,424)	(34,591)
Depreciation	(9,619,397)	(5,603,976)	(5,617,674)	(9,828,987)	(209,590)
Finance costs	(294,500)	(169,302)	(169,993)	(294,500)	0
Insurance	(680,440)	(680,440)	(691,601)	(691,599)	(11,159)
Other expenditure	(1,124,950)	(797,550)	(731,653)	(1,110,151)	14,799
Loss on asset disposals	(226,819)	(113,410)	(55,650)	(226,819)	0
	(61,896,171)	(37,333,790)	(37,428,486)	(63,304,641)	(1,408,470)
Non-cash amounts excluded from operating activities	9,688,697	5,717,386	5,684,572	9,898,287	209,590
Amount attributable to operating activities	3,530,710	18,546,215	19,864,958	3,170,631	(360,079)
INVESTING ACTIVITIES					
Inflows from investing activities					
Proceeds from capital grants, subsidies and contributions	5,514,730	2,217,621	1,244,982	5,481,462	(33,268)
Proceeds from disposal of assets	1,044,927	609,539	385,482	1,099,118	54,191
	6,559,657	2,827,160	1,630,464	6,580,580	20,923
Outflows from investing activities					
Payments for property, plant and equipment	(5,818,218)	(4,177,150)	(2,613,853)	(6,475,361)	(657,143)
Payments for construction of infrastructure	(10,769,193)	(6,770,212)	(1,015,757)	(10,375,010)	394,183
	(16,587,411)	(10,947,362)	(3,629,610)	(16,850,371)	(262,960)
Amount attributable to investing activities	(10,027,754)	(8,120,202)	(1,999,146)	(10,269,791)	(242,037)
FINANCING ACTIVITIES					
Inflows from financing activities					
Transfer from reserves	6,213,027	1,724,899	1,381,215	6,861,721	648,694
	6,213,027	1,724,899	1,381,215	6,861,721	648,694
Outflows from financing activities					
Repayment of borrowings	(812,438)	(473,921)	(400,851)	(812,438)	0
Payments for principal portion of lease liabilities	(214,033)	0	0	(214,033)	0
Transfer to reserves	(7,543,139)	(1,554,285)	(1,039,379)	(6,005,184)	1,537,955
	(8,569,610)	(2,028,206)	(1,440,230)	(7,031,655)	1,537,955
Amount attributable to financing activities	(2,356,583)	(303,307)	(59,015)	(169,934)	2,186,649
MOVEMENT IN SURPLUS OR DEFICIT					
Surplus or deficit at the start of the financial year	8,853,627	8,853,627	7,334,094	7,334,094	(1,519,533)
Amount attributable to operating activities	3,530,710	18,546,215	19,864,958	3,170,631	(360,079)
Amount attributable to investing activities	(10,027,754)	(8,120,202)	(1,999,146)	(10,269,791)	(242,037)
Amount attributable to financing activities	(2,356,583)	(303,307)	(59,015)	(169,934)	2,186,649
Surplus or deficit after imposition of general rates	0	18,976,333	25,140,891	65,000	65,000

10.7 Monthly Financial Report for the period ended 31 January 2025

File Code	FI.RPT2
Author	Stan Kocian, Manager Finance and Governance
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. Monthly Financial Report for period ended 31 January 2025 ↓

PURPOSE

The monthly financial report discloses the Shire's financial performance and financial position for the period ended 31 January 2025.

BACKGROUND

The monthly financial report is presented in accordance with the *Local Government Act 1995* and the *Local Government (Financial Management) Regulations 1996*.

The monthly financial report contains the statement of financial activity and the statement of financial position, which together with any accompanying documents are required to be presented to the Council at an ordinary meeting of the Council within two months after the end of the month to which the statement relates.

STATUTORY / LEGAL IMPLICATIONS

Regulation 34(1) of the *Local Government (Financial Management) Regulations 1996* requires a local government to prepare a statement of financial activity each month.

POLICY IMPLICATIONS

Nil

FINANCIAL IMPLICATIONS

Financial implications are in accordance with the approved reporting material variances (C9.07.24) of:

- (+) or (-) \$50,000 or 10%, whichever is the greater for Revenue
- (+) or (-) \$100,000 or 10%, whichever is the greater for Expenses

within the monthly Statement of Financial Activity during the 2024/25 financial year.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Nil

RISK IMPLICATIONS

Risk: Financial performance is not monitored against approved budget.		
Likelihood	Consequence	Rating
Possible	Minor	Moderate
Action / Strategy		
The monthly financial report tracks the Shire's actual financial performance against its budgeted financial performance to ensure that the Council is able to monitor the Shire's actual financial performance against the adopted budget throughout the financial year.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	✓

EXTERNAL CONSULTATION

Nil

COMMENT

The monthly financial report contains the following:

- Finance Dashboard with key financial indicators;
- Key financial information in graphical form;
- Statement of Financial Activity;
- Statement of Financial Position;
- Statement of Financial Activity Information, which includes a summary of the Shire's net current asset position and closing budget position;
- Explanation of Material Variances;
- Cash and Financial Assets;
- Capital Acquisitions;
- Grants and Contributions; and
- Capital Revenue.

In relation to the material variances, "timing" differences are due to the monthly spread of the budget not matching the actual spread of revenue or expenditure. Timing differences will not result in a forecast adjustment. Where the material variance is flagged as "permanent" this indicates that a forecast adjustment to the annual budget is required or has been made.

The actual closing budget position as at 31 January 2025 was a surplus of \$25,140,891 compared to a budgeted year to date surplus to the end of January of \$18,976,333. The budgeted year end surplus/deficit is nil as per the original budget adopted by Council on 31 July 2024 (SC4.07.24).

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council notes:

1. the closing position of the Shire for the period ended 31 January 2025 is a surplus of \$25,140,891 compared to the year to date budgeted surplus of \$18,976,333; and
2. the explanation of material variances in the Statement of Financial Activity contained in Note 2 of **Attachment 1**.



SHIRE OF MUNDARING

MONTHLY FINANCIAL REPORT

**(Containing the required statement of financial activity and statement of financial position)
For the period ended 31 January 2025**

**LOCAL GOVERNMENT ACT 1995
LOCAL GOVERNMENT (FINANCIAL MANAGEMENT) REGULATIONS 1996**

TABLE OF CONTENTS

Statements required by regulation

Finance Dashboard	2
Key Information	3
Statement of Financial Activity	6
Statement of Financial Position	7
Note 1 Statement of Financial Activity Information	8
Note 2 Explanation of Material Variances	9
Note 3 Cash and Financial Assets	10
Note 4 Capital Acquisitions	11
Note 5 Grants and Contributions	13
Note 6 Capital Revenue	14

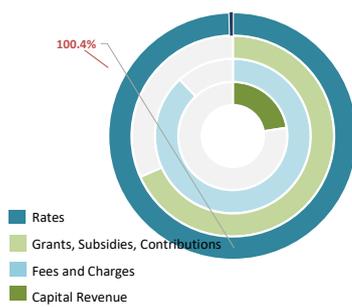
**SHIRE OF MUNDARING
FINANCE DASHBOARD
FOR THE PERIOD ENDED 31 JANUARY 2025**

Summary

Actual Rates Raised \$33,982,467
 Actual Rates Received \$26,909,702: 71% Collected
 Actual Operating Revenue \$51,608,872
 Actual Capital Grants \$1,244,982
 Actual Operating Expenditure (\$37,428,486)
 Actual Capital Expenditure (\$3,629,610)
 Actual Proceeds from Sale of Assets \$385,482

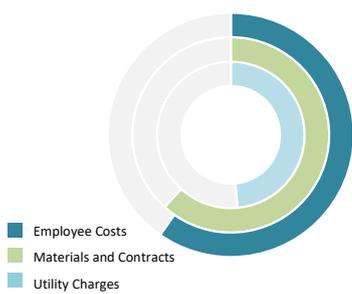
Year to Date Revenue Actuals Compared to Annual Budget

YTD Revenue vs Annual Budget



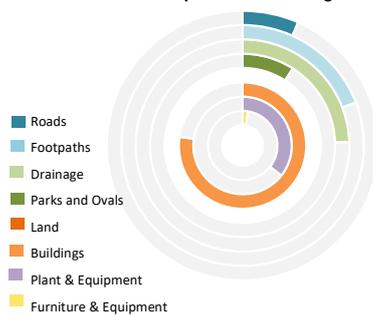
Year to Date Expenditure Actuals Compared to Annual Budget

YTD Expenditure vs Annual Budget



Year to Date Capital Actuals Compared to Annual Budget

YTD Capital vs Annual Budget



Closing Budget Surplus 30 June 2025

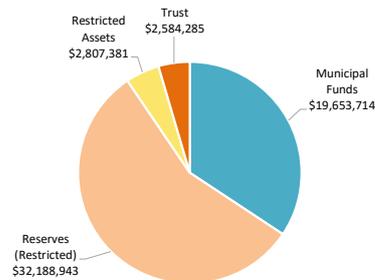
\$0

YTD Actual Surplus

\$25,140,891

Investments

Investments by Classification



Loans

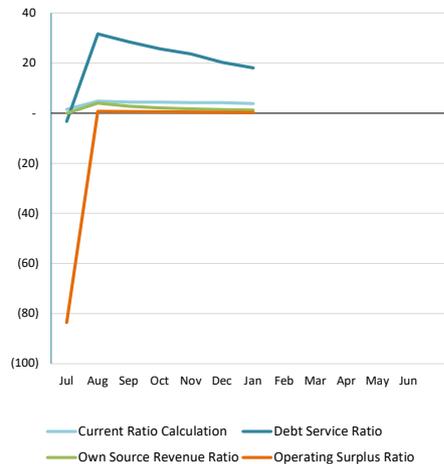
Actual Principal Outstanding \$7,225,307
 Actual Principal Paid YTD (\$400,851)
 Actual Interest Paid YTD (\$150,481)

Rates Outstanding

83 Properties with > \$10k outstanding
 600 Properties with \$3k to \$10k outstanding
 114 Properties where legal action commenced in 2023/24
 360 Properties on alternative payment arrangements (>\$3k)

Financial Ratios

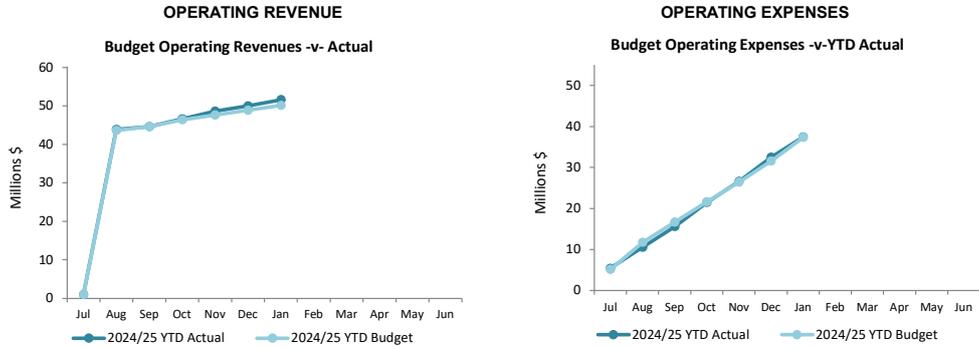
	Actual	Benchmark
Current Ratio	3.85	1
Debt Service Ratio	18.11	3
Own Source Revenue Ratio	0.94	>0.80
Operating Surplus Ratio	0.29	>0



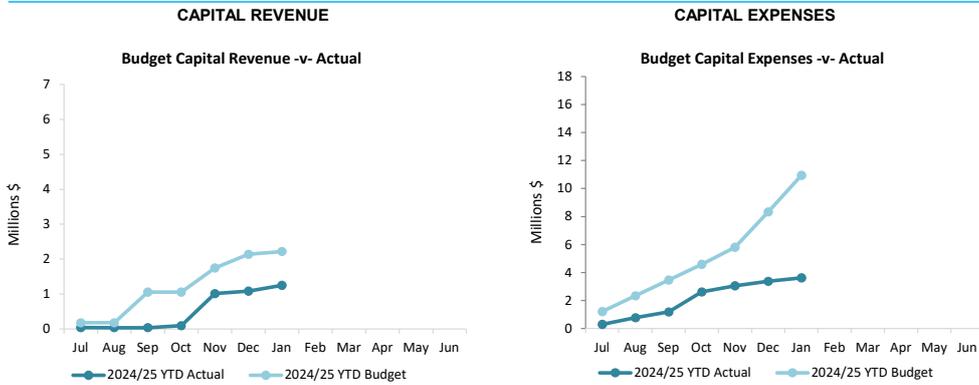
**SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025**

KEY INFORMATION - GRAPHICAL

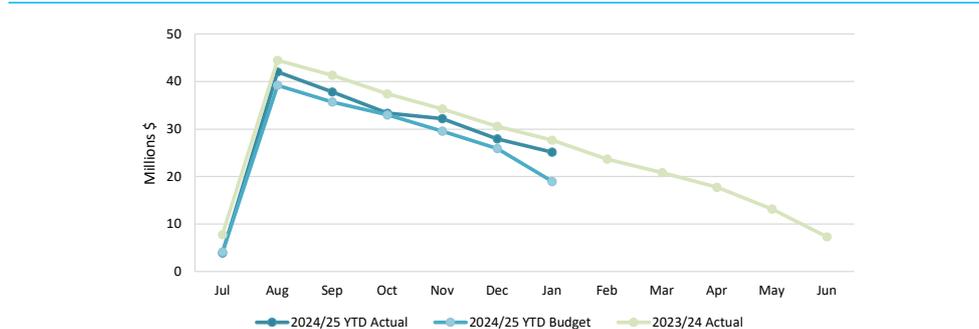
OPERATING ACTIVITIES



INVESTING ACTIVITIES



CLOSING FUNDING SURPLUS/DEFICIT



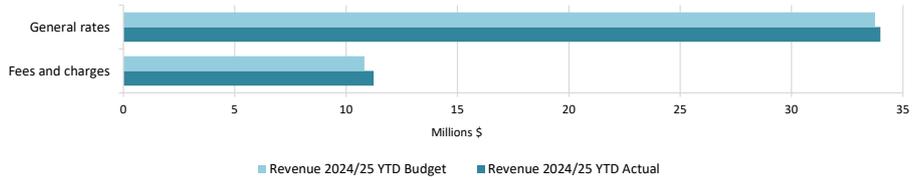
This information is to be read in conjunction with the accompanying Financial Statements and Notes.

**SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025**

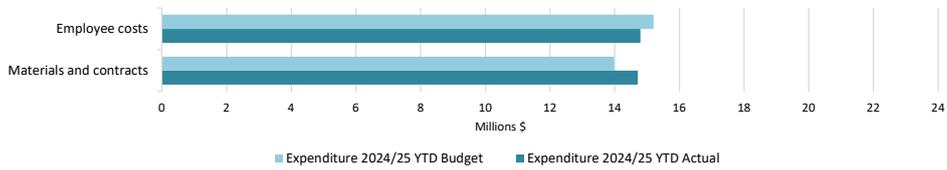
KEY INFORMATION - GRAPHICAL (Continued)

OPERATING ACTIVITIES (Continued)

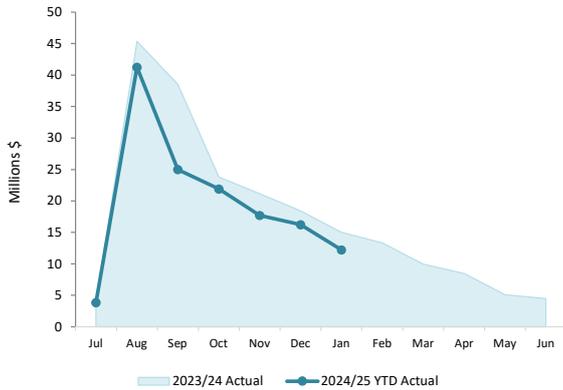
Budget Operating Income -v- Actual by Nature and Type



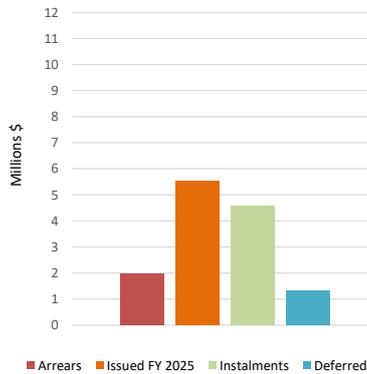
Budget Operating Expenditure -v- Actual by Nature and Type



Rates and Sanitation Debtors



Outstanding Rates by Category

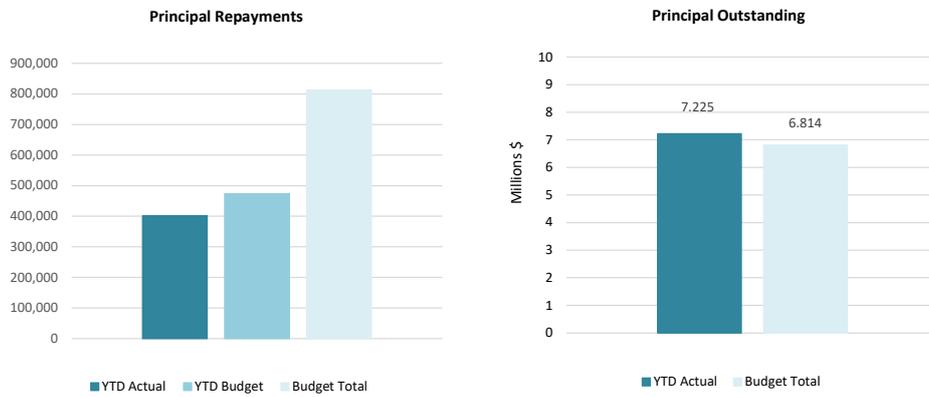


This information is to be read in conjunction with the accompanying Financial Statements and Notes.

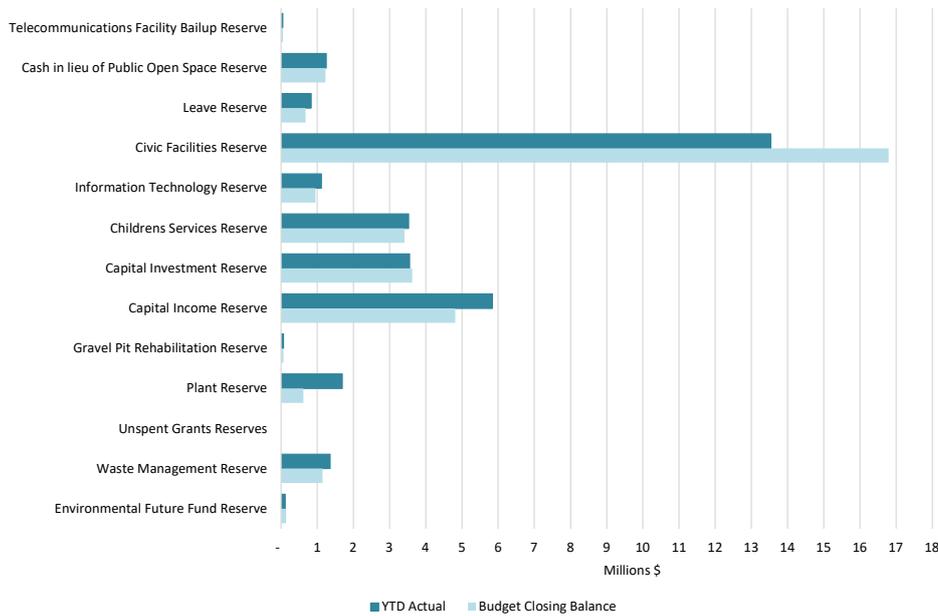
**SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025**

KEY INFORMATION - GRAPHICAL (Continued)

**FINANCING ACTIVITIES
BORROWINGS**



RESERVES



This information is to be read in conjunction with the accompanying Financial Statements and Notes.

SHIRE OF MUNDARING
STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 31 JANUARY 2025

Supplementary Information	Adopted	YTD	YTD	Variance*	Variance*	Var.	
	Budget (a)	Budget (b)	Actual (c)	\$	%		
	\$	\$	\$	\$	%		
OPERATING ACTIVITIES							
Revenue from operating activities							
General rates	33,831,164	33,749,901	33,982,464	232,563	0.69%	▲	
Grants, subsidies and contributions	4,455,491	2,702,551	3,045,638	343,087	12.69%	▲	
Fees and charges	12,754,045	10,816,934	11,232,547	415,613	3.84%	▲	
Interest revenue	2,420,000	1,411,660	1,579,244	167,584	11.87%	▲	
Other revenue	2,119,965	1,481,573	1,718,674	237,101	16.00%	▲	
Profit on asset disposals	157,519	0	50,305	50,305	0.00%	▲	
	55,738,184	50,162,619	51,608,872	1,446,253	2.88%		
Expenditure from operating activities							
Employee costs	(24,770,447)	(15,197,828)	(14,794,862)	402,966	(2.65%)	▼	
Materials and contracts	(23,824,785)	(13,980,621)	(14,708,781)	(728,160)	5.21%	▼	
Utility charges	(1,354,833)	(790,663)	(658,272)	132,391	(16.74%)	▼	
Depreciation	(9,619,397)	(5,603,976)	(5,617,674)	(13,698)	0.24%	▲	
Finance costs	(294,500)	(169,302)	(169,993)	(691)	0.41%	▲	
Insurance	(680,440)	(680,440)	(691,601)	(11,161)	1.64%	▼	
Other expenditure	(1,124,950)	(797,550)	(731,653)	65,897	(8.26%)	▼	
Loss on asset disposals	(226,819)	(113,410)	(55,650)	57,760	(50.93%)	▲	
	(61,896,171)	(37,333,790)	(37,428,486)	(94,696)	0.25%		
Non-cash amounts excluded from operating activities	Note 1(b)	9,688,697	5,717,386	5,684,572	(32,814)	(0.57%)	▼
Amount attributable to operating activities		3,530,710	18,546,215	19,864,958	1,318,743	7.11%	
INVESTING ACTIVITIES							
Inflows from investing activities							
Proceeds from capital grants, subsidies and contributions	6	5,514,730	2,217,621	1,244,982	(972,639)	(43.86%)	▼
Proceeds from disposal of assets		1,044,927	609,539	385,482	(224,057)	(36.76%)	▼
		6,559,657	2,827,160	1,630,464	(1,196,696)	(42.33%)	
Outflows from investing activities							
Payments for property, plant and equipment	4	(5,818,218)	(4,177,150)	(2,613,853)	1,563,297	(37.42%)	▼
Payments for construction of infrastructure	4	(10,769,193)	(6,770,212)	(1,015,757)	5,754,455	(85.00%)	▼
		(16,587,411)	(10,947,362)	(3,629,610)	7,317,752	(66.84%)	
Amount attributable to investing activities		(10,027,754)	(8,120,202)	(1,999,146)	6,121,056	75.38%	
FINANCING ACTIVITIES							
Inflows from financing activities							
Transfer from reserves		6,213,027	1,724,899	1,381,215	(343,684)	(19.92%)	▼
		6,213,027	1,724,899	1,381,215	(343,684)	(19.92%)	
Outflows from financing activities							
Repayment of borrowings		(812,438)	(473,921)	(400,851)	73,070	(15.42%)	▼
Payments for principal portion of lease liabilities		(214,033)	0	0	0	0.00%	▼
Transfer to reserves		(7,543,139)	(1,554,285)	(1,039,379)	514,906	(33.13%)	▼
		(8,569,610)	(2,028,206)	(1,440,230)	587,976	28.99%	
Amount attributable to financing activities		(2,356,583)	(303,307)	(59,015)	244,292	80.54%	
MOVEMENT IN SURPLUS OR DEFICIT							
Surplus or deficit at the start of the financial year		8,853,627	8,853,627	7,334,094	(1,519,533)	(17.16%)	▼
Amount attributable to operating activities		3,530,710	18,546,215	19,864,958	1,318,743	7.11%	▲
Amount attributable to investing activities		(10,027,754)	(8,120,202)	(1,999,146)	6,121,056	(75.38%)	▼
Amount attributable to financing activities		(2,356,583)	(303,307)	(59,015)	244,292	(80.54%)	▼
Surplus or deficit after imposition of general rates		0	18,976,333	25,140,891	6,164,558	32.49%	▲

KEY INFORMATION

▲▼ Indicates a variance between Year to Date (YTD) Budget and YTD Actual data as per the adopted materiality threshold.

* Refer to Note 2 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 MUNDARING
STATEMENT OF FINANCIAL POSITION
FOR THE PERIOD ENDED 31 JANUARY 2025**

	Supplementary Information	30 June 2024	31 January 2025
		\$	\$
CURRENT ASSETS			
Cash and cash equivalents	3	17,353,578	17,245,483
Trade and other receivables		5,306,121	13,089,250
Other financial assets		30,109,480	38,411,899
Inventories		58,135	103,269
Other assets		433,879	0
TOTAL CURRENT ASSETS		53,261,193	68,849,901
NON-CURRENT ASSETS			
Trade and other receivables		1,434,417	1,372,864
Other financial assets		145,549	145,549
Investment in associate		21,485,320	21,485,320
Property, plant and equipment		87,296,108	86,403,276
Infrastructure		380,431,750	376,790,642
Right-of-use assets		364,755	364,755
TOTAL NON-CURRENT ASSETS		491,157,899	486,562,406
TOTAL ASSETS		544,419,092	555,412,307
CURRENT LIABILITIES			
Trade and other payables		8,529,532	6,653,279
Other liabilities		320,631	320,631
Lease liabilities		223,602	223,602
Borrowings		812,437	411,585
Employee related provisions		3,808,724	3,808,724
TOTAL CURRENT LIABILITIES		13,694,926	11,417,821
NON-CURRENT LIABILITIES			
Lease liabilities		148,158	148,158
Borrowings		6,813,721	6,813,721
Employee related provisions		248,084	248,084
Other provisions		1,270,798	1,270,798
TOTAL NON-CURRENT LIABILITIES		8,480,761	8,480,761
TOTAL LIABILITIES		22,175,687	19,898,582
NET ASSETS		522,243,405	535,513,725
EQUITY			
Retained surplus		145,620,816	159,232,972
Reserve accounts		33,268,212	32,926,376
Revaluation surplus		343,354,377	343,354,377
TOTAL EQUITY		522,243,405	535,513,725

This statement is to be read in conjunction with the accompanying notes.

SHIRE OF MUNDARING
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 31 JANUARY 2025

1 STATEMENT OF FINANCIAL ACTIVITY INFORMATION

	Supplementary Information	Adopted Budget	Last Year Closing	Year to Date
		2024/25	30 June 2024	31 Jan 2025
(a) Net current assets used in the Statement of Financial Activity				
Current assets				
Cash and cash equivalents	3	13,054,633	17,353,578	17,245,483
Trade and other receivables		6,079,082	5,306,121	13,089,250
Other financial assets		30,109,480	30,109,480	38,411,899
Inventories		123,569	58,135	103,269
Other assets		331,938	433,879	0
		49,698,702	53,261,193	68,849,901
Less: current liabilities				
Trade and other payables		(12,393,469)	(8,529,532)	(6,653,279)
Other liabilities		0	(320,631)	(320,631)
Lease liabilities		(157,727)	(223,602)	(223,602)
Borrowings		(854,331)	(812,437)	(411,585)
Employee related provisions		(3,534,135)	(3,808,724)	(3,808,724)
		(16,939,662)	(13,694,926)	(11,417,821)
Net current assets		32,759,040	39,566,267	57,432,080
Less: Total adjustments to net current assets	Note 1(c)	(32,759,040)	(32,232,173)	(32,291,189)
Closing funding surplus / (deficit)		0	7,334,094	25,140,891

(b) Non-cash amounts 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*.

	Adopted Budget	YTD Budget (a)	YTD Actual (b)
	\$	\$	\$
Non-cash amounts excluded from operating activities			
Adjustments to operating activities			
Less: Profit on asset disposals	(157,519)	0	(50,305)
Add: Loss on asset disposals	226,819	113,410	55,650
Add: Depreciation	9,619,397	5,603,976	5,617,674
Non-cash movements in non-current assets and liabilities:			
- Pensioner deferred rates	0	0	61,553
Total non-cash amounts excluded from operating activities	9,688,697	5,717,386	5,684,572

(c) Current assets and liabilities excluded from budgeted deficiency

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.

	Adopted Budget	Last Year Closing	Year to Date
	2024/25	30 June 2024	31 Jan 2025
Adjustments to net current assets			
Less: Reserve accounts	(33,771,098)	(33,268,212)	(32,926,376)
Add: Current liabilities not expected to be cleared at the end of the year:			
- Current portion of borrowings	854,331	812,437	411,585
- Current portion of lease liabilities	157,727	223,602	223,602
Total adjustments to net current assets	(32,759,040)	(32,232,173)	(32,291,189)

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 MUNDARING
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
FOR THE PERIOD ENDED 31 JANUARY 2025

2 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 for revenue adopted by Council for the 2024-25 year is \$50,000 or 10% whichever is the greater.
 The material variance for expenses adopted by Council for the 2024-25 year is \$100,000 or 10% whichever is the greater.

Description	Var. \$ \$	Var. % %	
Revenue from operating activities			
General rates	232,563	0.69%	▲
Actual YTD growth 2024/25 greater than YTD Budget (YTD Actual \$313,828; total Budget \$162,527).			
Grants, subsidies and contributions	343,087	12.69%	▲
MECPC Childcare Grant \$281,458 received earlier than budgeted. General Purpose Grant \$92,258 greater than YTD Budget.			
Fees and charges	415,613	3.84%	▲
Childcare fees income \$79,537 greater than YTD Budget. Bin charges income \$148,722 greater than YTD Budget. Planning Development Applications \$110,366 greater than YTD Budget.			
Interest revenue	167,584	11.87%	▲
YTD Interest earnings greater than anticipated Budget.			
Other revenue	237,101	16.00%	▲
Reimbursement of Long Service Leave from other LG \$27,190 greater than YTD Budget. EMRC Dividend \$27,500 greater than Budget - transferred to Waste Reserve. Deferred Rates Interest Revenue \$53,731 received earlier than Budgeted.			
Profit on asset disposals	50,305	0.00%	▲
Within variance threshold.			
Expenditure from operating activities			
Employee costs	402,966	(2.65%)	▼
Relates to timing of pay periods and staff vacancies.			
Materials and contracts	(728,160)	5.21%	▲
Family Day Care Caregiver Subsidy \$167,499 greater than YTD Budget - offset by increase in income. Materials screening expenditure \$74,699 greater than YTD Budget. Waste collection expenditure \$736,196 greater than YTD Budget as a result of the following: Waste collection expenditure \$165,330 relating to Q4 FY 2024 paid in FY 2025 not included in budget; Bulk verge collection expenditure \$101,006k greater than YTD budget due to misalignment of budget spread (YTD actual \$528,165; YTD Budget \$629,171; total budget \$760,006); Additional expenditure in relation to collection of general waste bins to assist with transition to FOGO not budgeted; Increase in demand for additional general waste bin as result of FOGO, resulting in additional expenditure (offset by additional income of \$120k); Higher than budgeted FOGO expenditure due to rejection of contaminated loads, resulting in unforeseen landfill and associated costs. Should the overall waste services costs for FY 2025 exceed the budget for waste income, the difference will be funded from the Waste Reserve.			
Utility charges	132,391	(16.74%)	▼
Impact of Street Lighting Charges year end accrual.			
Depreciation	(13,698)	0.24%	▲
Within variance threshold.			
Finance costs	(691)	0.41%	▲
Within variance threshold.			
Insurance	(11,161)	1.64%	▲
Within variance threshold.			
Other expenditure	65,897	(8.26%)	▼
Within variance threshold.			
Inflows from investing activities			
Proceeds from capital grants, subsidies and contributions	(972,639)	(43.86%)	▼
Relates to timing of multiple grants - see Note 6.			
Proceeds from disposal of assets	(224,057)	(36.76%)	▼
Variances due to timing of plant replacements.			
Outflows from investing activities			
Payments for property, plant and equipment	1,563,297	(37.42%)	▼
Variances due to timing of plant replacements - see Note 4.			
Payments for construction of infrastructure	5,754,455	(85.00%)	▼
Variances spread over numerous projects - see Note 4.			
Inflows from financing activities			
Transfer from reserves	(343,684)	(19.92%)	▼
Relates to timing of transfers.			
Outflows from financing activities			
Repayment of borrowings	73,070	(15.42%)	▼
Relates to the timing of loans repayments, current month payment not due until 1st of following month. Variance is due to year end accrual.			
Payments for principal portion of lease liabilities	0	0.00%	
No variance.			
Transfer to reserves	514,906	(33.13%)	▼
Relates to timing of transfers.			
Surplus or deficit at the start of the financial year	(1,519,533)	(17.16%)	▼
Variance is due to year end accruals and underestimated materials and contracts forecast - to be addressed during Mid-Year Budget Review.			
Surplus or deficit after imposition of general rates	6,164,558	32.49%	▲
Due to variances described above			

**SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025**

3 CASH AND FINANCIAL ASSETS

Description	Unrestricted \$	Restricted \$	Total Cash \$	Trust \$	Institution	Interest Rate	Maturity Date
Cash on hand							
Municipal Bank	724,557	0	724,557	0	Bendigo	Variable	n/a
Municipal Investment	4,600,399	0	4,600,399	0	Bendigo	Variable	n/a
Municipal Term Deposit	4,247,017	0	4,247,017	0	CBA	4.79%	20/04/2025
Municipal Term Deposit	3,500,000	0	3,500,000	0	Suncorp	4.92%	7/02/2025
Municipal Term Deposit	3,538,025	0	3,538,025	0	Bendigo	4.80%	18/03/2025
Municipal Term Deposit	3,043,716	0	3,043,716	0	NAB	4.20%	23/02/2025
Reserve Investment	0	1,421,759	1,421,759	0	Bendigo	Variable	n/a
Reserve Term Deposit	0	3,990,886	3,990,886	0	Bendigo	4.80%	18/12/2025
Reserve Term Deposit	0	4,351,686	4,351,686	0	NAB	4.90%	30/12/2025
Reserve Term Deposit	0	4,945,393	4,945,393	0	Westpac	4.80%	22/03/2025
Reserve Term Deposit	0	2,798,399	2,798,399	0	NAB	5.00%	24/10/2025
Reserve Term Deposit	0	4,246,011	4,246,011	0	NAB	5.10%	18/02/2025
Reserve Term Deposit	0	5,261,000	5,261,000	0	Suncorp	5.07%	23/04/2025
Reserve Term Deposit	0	5,173,809	5,173,809	0	CBA	4.91%	24/03/2025
Restricted Asset	0	2,807,381	2,807,381	0	Bendigo	Variable	n/a
Trust Investment	0	0	0	2,584,285	Bendigo	Variable	n/a
Total	19,653,714	34,996,324	54,650,038	2,584,285			

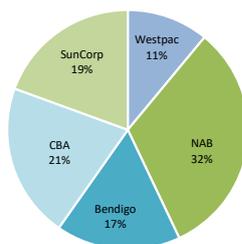
KEY INFORMATION

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.

**Term Deposit Spread
by Financial Institution**



Term Deposit Spread

(no more than 35% for any one Financial Institution)

Westpac	4,945,393	11%
NAB	14,439,812	32%
Bendigo	7,528,911	17%
CBA	9,420,825	21%
SunCorp	8,761,000	19%
Total	45,095,941	100%

SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025

INVESTING ACTIVITIES

4 CAPITAL ACQUISITIONS - DETAILED

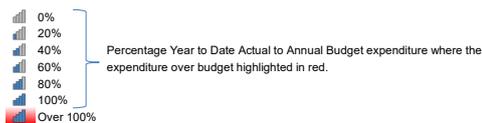
Account Description	Adopted			Variance (Under)/Over	Variance incl Commitments
	Budget	YTD Budget	YTD Actual		
	\$	\$	\$	\$	\$
Land					
Total	0	0	0	0	0
Buildings					
Bigoman Pool - Changerooms Upgrade	320,000	320,000	524,698	204,698	
Boya Oval Changeroom/Kiosk Upgrade	110,000	60,000	0	(110,000)	
** Brown Park Community Centre - Building Works	272,000	272,000	0	(272,000)	
** Bruce Douglas - Replace Floor/Wall Tiles and Fitting	20,000	20,000	15,234	(4,766)	
Disability Access Work - Implementation Plan	0	0	0	0	
Energy Emissions Reduction - Multiple Buildings	20,000	20,000	19,540	(460)	
Glen Forrest Hall - Disability Access Works	0	0	152,370	152,370	
Glen Forrest Oval - Building Capital Works	50,000	0	7,865	(42,335)	
Lake Leschenaultia - Cafe/ Kitchen Building Capital Works	30,000	30,000	0	(30,000)	
Mt Helena Oval - Changeroom Upgrade	65,000	65,000	15,191	(49,810)	
** Mt Helena Playgroup Building - Upgrade Kitchen & Bathroom	60,000	60,000	4,865	(55,135)	
Mundaring Arena - Building Capital Works	65,000	0	0	(65,000)	
Mundaring Recreation Pavilion - Extend Pergola	0	0	90,646	90,646	
Mundaring Station Masters House - Building Capital Works	15,000	0	0	(15,000)	
Norris Park - Toilet Block	210,000	105,000	0	(210,000)	
** Octagonal Hall - Front Wall Repairs	20,000	0	0	(20,000)	
** Operations Centre - Office Layout & Work Stations Adjustments	20,000	20,000	0	(20,000)	
** Operations Centre - Upgrade Chemical Storage Facilities	51,500	51,500	17,172	(34,328)	
Parkerville Hall - Disability Access Works	0	0	283,206	283,206	
** Parkerville VBFB - Building Works	25,000	25,000	2,500	(22,500)	
Stoneville VBFB - Building Capital Works	15,000	15,000	0	(15,000)	
Wooroloo Hall - Building Works	75,000	0	0	(75,000)	
** Wooroloo VBFB - Building Works	25,000	0	0	(25,000)	
Total	1,468,500	1,063,500	1,133,086	(335,414)	342
Furniture and Equipment					
Administration/Civic Centre - New Work Stations	30,000	30,000	5,254	(24,746)	
Art Acquisition Program	47,000	47,000	0	(47,000)	
** Council Chambers - Install New Audio & Visual Equipment	125,000	125,000	0	(125,000)	
Total	202,000	202,000	5,254	(196,746)	(194,111)
Plant and Equipment					
** Plant Replacement Program 2021-22	252,000	252,000	0	(252,000)	
** Plant Replacement Program 2022-23	889,000	658,000	555,471	(333,529)	
** Plant Replacement Program 2023-24	1,752,225	1,260,650	860,480	(891,745)	
** Plant Replacement Program 2024-25	1,204,493	690,000	59,562	(1,144,931)	
** Upgrade/Renew Fuel Dispensing System	50,000	50,000	0	(50,000)	
Total	4,147,718	2,911,650	1,475,513	(2,672,205)	(1,913,556)
Infrastructure					
Roads					
Allan Place - Road Resurfacing	41,840	24,409	1,445	(40,395)	
Anne Road - Road Resurfacing	31,344	18,284	3,510	(27,834)	
Ashstead Street - Road Resurfacing	59,330	34,608	7,510	(51,820)	
Bailey Road - Construct Turnaround at South End	20,000	0	6,433	(13,567)	
Bailey Road - Road Renewal	26,412	15,407	0	(26,412)	
Brooking Road Extension (MRRG 20/21)	400,000	400,000	0	(400,000)	
Brown Park Carpark Upgrade	600,000	400,000	3,464	(596,536)	
Burkinshaw Road Bridge - Repairs	0	0	16,590	16,590	
Clifton Street - Seal Road	240,000	0	400	(239,600)	
Cook Street Mt Helena - Road Resurfacing	11,442	6,671	991	(10,451)	
Coppin Road - Road Resurfacing	123,990	72,324	15,321	(108,669)	
** Craig Street - Embayments - Road Kerb	55,000	0	0	(55,000)	
Dura Road - Seal Road	40,000	0	22,249	(17,751)	
** Fire Access - Falls Rd To Richardson Rd - Road Surface	310,000	155,000	0	(310,000)	
** Fire Access - Reservoir Rd To Rosedale Rd - Road Surface	85,000	48,572	119	(84,881)	
** Glen Road - Reconstruct Road from Maslin Rd to Victor Rd	20,000	20,000	0	(20,000)	
Glenburne Road - Road Resurfacing	88,806	51,800	10,879	(77,927)	
Glen Forrest Hall - Upgrade Carpark	110,000	110,000	0	(110,000)	
Goslin Street - Road Resurfacing	41,180	24,024	2,513	(38,667)	
Graham Street North - Road Resurfacing	73,103	42,644	1,044	(72,059)	
Hanzell Road - Road Resurfacing	128,332	74,858	5,237	(123,095)	
Hidden Valley Road - Road Shoulder Improvement	88,000	0	0	(88,000)	
Hillcrest Drive - Road Resurfacing	99,928	58,289	55	(99,873)	
Honeyeater Glade - Seal Road	0	0	24,294	24,294	
Iron Road - Rehab Widening	26,000	26,000	0	(26,000)	
Kingston Road - Road Resurfacing	91,515	53,382	8,627	(82,888)	
Malone Road - Seal Turnaround	20,000	20,000	5,109	(14,891)	
* Marnie Road - Recon (Parking Embayment/Turnaround)	413,000	413,000	25,362	(387,639)	
Martin Road - Road Resurfacing	30,990	18,074	1,693	(29,297)	
Mcvicar Road - Upgrade And Remove Deflections - Road Pavement	0	0	10,440	10,440	
Mills Road - Road Resurfacing	30,480	17,780	3,300	(27,180)	
Morrison Road (C) East Bound (Roe Hwy to Farrall Rd) - Road Renewal	0	0	4,750	4,750	
Morrison Road (Railway Line East 980m) - Road Renewal	0	0	90,156	90,156	
Morrison Road (Railway to Farrell Rd) - Road Resurface	600,000	350,000	10,050	(589,950)	
Nelson Road - Road Resurfacing	127,987	74,662	1,862	(126,125)	
Neptune Street - Road Resurfacing	107,943	62,965	5,245	(102,698)	
** New Bus Shelters	20,000	20,000	0	(20,000)	
Old York Rd (MRRG 24/25) - Resurface	1,029,975	600,817	6,455	(1,023,520)	
Oliver Street - Road Renewal	0	0	1,127	1,127	
Owen Road - Pedestrian Crossing	20,000	0	0	(20,000)	
Parkerville Hall - Upgrade Carpark	165,000	0	0	(165,000)	
Prosperity Road - Shoulder Improvements	86,000	86,000	132,625	46,625	
Redfern Road - Road Resurfacing	19,940	11,634	5,214	(14,726)	
Rosedale Road - Road Resurfacing	161,730	94,339	0	(161,730)	
Sandover Road - Construct Turnaround	25,000	0	0	(25,000)	
** Sawyers Valley Bridge - Repairs	40,000	40,000	0	(40,000)	
Stoneville Road (MRRG 24/25) - Rehabilitation Traylen Rd to Anketell	788,686	460,068	0	(788,686)	
** Ten Acre Way - Road Renewal	46,400	0	3,473	(42,927)	
** Towerhill Court - Road Renewal	92,000	0	166	(91,834)	
Total	6,636,353	3,905,611	437,710	(6,198,643)	(3,739,288)

SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025

INVESTING ACTIVITIES

4 CAPITAL ACQUISITIONS - DETAILED (Continued)

Account Description	Adopted			Variance (Under)/Over	Variance incl Commitments
	Budget	YTD Budget	YTD Actual		
	\$	\$	\$	\$	
Drainage					
* Barusella Road - Drainage Works	220,000	125,716	4,681	(215,319)	
* Elmore Street - Drainage	40,000	40,000	73,204	33,204	
** Glenwood Ave Paw - Drainage	112,120	112,120	0	(112,120)	
** Granoey Avenue/Gill Street - Drainage Works	20,000	20,000	0	(20,000)	
** Hardey Road - Drainage Works	240,000	137,144	0	(240,000)	
Mathieson Rd Transfer Station - Drainage	10,220	5,831	0	(10,220)	
Messines Court - Drainage Upgrade	25,000	25,000	0	(25,000)	
Old York Rd/ Ward Ave - Drainage Upgrade	80,000	45,716	5,028	(74,972)	
** Rosedale Road - Drainage	100,000	60,000	126,525	26,525	
** Stoneville Road - Drainage Works	20,000	20,000	2,833	(17,167)	
Total	867,340	591,527	212,271	(655,069)	(654,521)
Parks and Ovals					
Balfour Road Park - Construct Temporary Dog Park	25,000	25,000	17,968	(7,032)	
Brown Park - Lighting	580,000	338,331	12,660	(567,340)	
Brown Park - Liberty Swing	30,000	30,000	0	(30,000)	
Brown Park Oval - Replace Synthetic Turf Wicket	5,000	0	0	(5,000)	
Chidlow Skatepark - Seating/Shelter	10,000	10,000	3,320	(6,680)	
Chidlow Village Green - RV Rest Stop and Dump Point	5,000	5,000	0	(5,000)	
Coppin Road CRC - Capital Improvements - Hardstands	10,000	5,831	0	(10,000)	
Danny Wimperus Park - New Shelter Installation	0	0	6,765	6,765	
** Darlington - Construct New Wellands Recreation Area	15,000	15,000	0	(15,000)	
* Darlington - Heritage Walkways Works - Historical Locations	190,000	110,831	6,818	(183,182)	
** Darlington Oval - Extend Shelter	25,000	25,000	0	(25,000)	
Darlington Oval - Irrigation/ Reticulation System	180,000	180,000	0	(180,000)	
Ellesmere Park - Construct New Dog Park	265,000	265,000	0	(265,000)	
** Glen Forrest Tennis Courts - Surface Replacement & Upgrade Infrastructure	80,000	80,000	0	(80,000)	
** Heritage Trail - Installation Of Signage	30,000	30,000	0	(30,000)	
** Heritage Trails - Staged Upgrading	10,000	5,831	11,239	1,239	
** Mathieson Road CRC - Repair Retaining Walls	65,000	37,919	0	(65,000)	
** Morgan John Morgan Reserve - New Pump Track Design/Build	20,000	0	0	(20,000)	
** Mt Helena Aquatic Centre - Aquatic Capital Works	11,500	11,500	0	(11,500)	
Mt Helena Oval - Lighting	24,000	14,000	0	(24,000)	
Mundaring Cemetery Development	10,000	7,500	5,363	(4,638)	
Mundaring Town Centre - Upgrade Entry Statement	40,000	40,000	0	(40,000)	
Norris Park - Upgrade BBQ and Play Equipment	57,000	57,000	54,325	(2,675)	
** Parkerville Oval - Parks Capital Works	220,000	128,331	0	(220,000)	
** Sawyers Valley Oval - Upgrade Reticulation System	120,000	60,000	0	(120,000)	
** Sawyers Valley Oval - Upgrade Soil Drainage	230,000	230,000	0	(230,000)	
** Sculpture Park - Amphitheatre Repair	10,000	10,000	0	(10,000)	
* Swan View - Heritage Trail Head - Construct Carparks	180,000	0	53,848	(126,152)	
Tennis Court Upgrades	30,000	30,000	0	(30,000)	
VBFB Firefighting - Water Tank	160,000	160,000	85,179	(74,821)	
** Woorooloo Reserve - Renew/Upgrade Play Equipment & Shelters	63,000	63,000	0	(63,000)	
Total	2,700,500	1,975,074	257,485	(2,443,015)	(2,240,370)
Footpaths					
Beresford Gardens - Footpath Welbourn Rd to Heritage Trail	42,000	42,000	49,720	7,720	
Glebe Road - Renew Footbridge PAW link to Glen Rd	15,000	0	0	(15,000)	
Innaminka Road - Footpath Works	0	0	25,533	25,533	
Kilburn Road - Footpath Brindle Rd to Vista Pde	32,000	0	0	(32,000)	
** Mundaring Arena - Install Walkways	50,000	50,000	0	(50,000)	
Mundaring Oval - Footpath Overflow Carpark to Pavilion	20,000	20,000	8,233	(11,767)	
Old York Rd - Footpath Throssell Rd to John Forrest National Park	110,000	0	0	(110,000)	
Railway Terrace - Footpath Works	0	0	24,805	24,805	
Ridge Hill Rd - Footpath Scott St to Maguire Rd	110,000	0	0	(110,000)	
Vista Drive - Footpath Kilburn Rd to Dodington Pl	186,000	186,000	0	(186,000)	
Total	565,000	298,000	108,291	(456,709)	(249,436)
Capital expenditure total	16,587,411	10,947,362	3,629,610	(12,957,801)	(8,990,940)



- * Works in Progress carried over from 2023/24
- ** Project carried over from 2023/24

SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025

OPERATING ACTIVITIES

5 GRANTS, SUBSIDIES AND CONTRIBUTIONS

	Grants, subsidies and contributions revenue		
	Adopted Budget Revenue	YTD Budget	YTD Revenue Actual
	\$	\$	\$
Grants and subsidies			
General Purpose Grant - Grants Commission	188,355	94,176	186,434
Education Department - Child and Parent Centre Middle Swan	525,000	262,500	543,958
Child Care Subsidy - Family Day Care Services	1,650,000	962,500	1,060,200
National Indigenous Australia Agency - Indigenous Advancement Strategy	248,000	41,317	124,373
Special Needs Subsidy Grant - Midvale Early Childhood and Parent Centre	5,000	0	0
Department of Communities - Midvale Hub	520,000	390,000	409,526
Australia Day Function	15,000	12,000	12,000
Summer of Entertainment Grant	10,000	0	15,000
Environmental Grant	20,000	10,000	0
Friends Group Program	0	0	4,341
Emergency Services Levy Grant	492,697	369,522	219,875
Mitigation Activity Fund	350,000	350,000	283,750
SES ESL Grant	28,140	0	14,070
Bus Shelter Grant - PTA	13,000	0	0
Street Lighting Grant	80,000	0	0
Local Road Grant	142,573	71,286	30,805
Urban Greening Project - Environmental Grant	0	0	37,706
FOGO Grant	55,400	55,400	55,400
	4,343,165	2,618,701	2,997,438
Contributions			
Library Services Administration	1,000	0	1,000
Communication Strategy	0	0	1,200
Seniors Week	1,000	588	1,000
Mt Helena Aquatic - Eastern Hills SHS	80,000	80,000	0
Environmental and Sustainability	5,000	2,919	0
Fire Prevention	24,751	0	45,000
Eastern Hills Catchment Management	322	189	0
Seedlings for Landcare Program	253	132	0
Volunteer Program	0	0	0
Road Subdivision Construction Contribution	0	0	0
	112,326	83,850	48,200
TOTALS	4,455,491	2,702,551	3,045,638

SHIRE OF MUNDARING
SUPPLEMENTARY INFORMATION
FOR THE PERIOD ENDED 31 JANUARY 2025

INVESTING ACTIVITIES

6 CAPITAL REVENUE

	Capital grant/ contribution liabilities	Capital grants, subsidies and contributions revenue		
	Liability	Adopted Budget	YTD	YTD Revenue
	31 Jan 2025	Revenue	Budget	Actual
	\$	\$	\$	\$
Capital grants and subsidies				
Plant Replacement Grant Funding (DFES)	0	265,000	265,000	0
2024-25 New Plant Program	0	51,493	0	72,321
Bilgoman Pool - Changerooms Upgrade	0	130,000	65,000	0
Brown Park - Flood Lighting Upgrade	0	245,354	0	36,000
Brooking Road Extension (MRRG 20/21)	0	400,000	400,000	108,613
Darlington Oval - Irrigation/ Reticulation System	0	119,000	119,000	0
Darlington Heritage Walkways Works	148,146	0	0	0
Ellesmere Park - Construct New Dog Park	0	265,000	0	0
LRCI Grant	163,790	554,221	0	150,107
Morrison Road (Railway to Farrell Rd) - Road Resurface	0	400,000	0	66,528
Norris Park - Toilet Block	0	210,000	0	0
Old York Rd (MRRG 24/25) - Resurface	0	829,458	350,000	167,993
Parkerville Oval - Parks Capital Works	0	113,333	113,333	0
Roads to Recovery (RTR) Program	0	874,967	437,484	72,500
Sawyers Valley Oval - Parks Capital Works	0	68,310	0	0
State Roads Grant	0	387,804	387,804	387,804
Stoneville Road (MRRG 24/25) - Rehabilitation Traylen Rd to Anketell	0	457,790	0	183,116
Subdivision Road Construction Program	0	20,000	0	0
VBFB Firefighting Capital Equipment	0	80,000	80,000	0
Wooroloo Reserve - Parks Capital Works	0	43,000	0	0
	311,936	5,514,730	2,217,621	1,244,982
Disposal of Assets				
Plant and Equipment disposals	0	1,044,927	609,539	385,483
	0	1,044,927	609,539	385,483
TOTALS	311,936	6,559,657	2,827,160	1,630,464

10.8 List of Payments for January 2025

File Code	FI.RPT 1
Author	Stan Kocian, Manager Finance and Governance
Senior Employee	Garry Bird, Director Corporate Services
Disclosure of Any Interest	Nil
Attachments	1. Payments Between Meetings January 2025 ↓

PURPOSE

A list of accounts paid from the Municipal Fund and Trust Fund under the Chief Executive Officer's delegated authority for the month of January 2025 is presented to Council for noting.

BACKGROUND

Council has delegated to the Chief Executive Officer the exercise of its power to make payments from the Shire's Municipal and Trust Funds (CE-1). In accordance with Regulation 13 of the *Local Government (Financial Management) Regulations 1996*, a list of accounts paid is to be presented to Council and be recorded in the minutes of the meeting at which the list was presented.

STATUTORY / LEGAL IMPLICATIONS

Regulation 13 of the *Local Government (Financial Management) Regulations 1996* states:

- (1) *If the local government has delegated to the CEO the exercise of its power to make payments from the municipal fund or the trust fund, a list of accounts paid by the CEO is to be prepared each month showing for each account paid since the last such list was prepared –*
 - (a) *the payee's name;*
 - (b) *the amount of the payment;*
 - (c) *the date of the payment; and*
 - (d) *sufficient information to identify the transaction*
- (2) *A list prepared under sub regulation (1) or (2) is to be –*
 - (a) *presented to council at the next ordinary meeting of the council after the list is prepared; and*
 - (b) *recorded in the minutes of that meeting*

Regulation 13A of the *Local Government (Financial Management) Regulations 1996* states:

- (1) *If a local government has authorised an employee to use a credit, debit or other purchasing card, a list of payments made using the card must be prepared each month showing the following for each payment made since the last such list was prepared –*
 - (a) *the payee's name;*
 - (b) *the amount of the payment;*
 - (c) *the date of the payment;*

- (d) *sufficient information to identify the payment.*
- (2) *A list prepared under subregulation (1) must be —*
 - (a) *presented to the council at the next ordinary meeting of the council after the list is prepared; and*
 - (b) *recorded in the minutes of that meeting.*

POLICY IMPLICATIONS

The “Procurement Policy” (1.4) provides best practice and guiding principles for purchasing activities by or on behalf of the Shire.

FINANCIAL IMPLICATIONS

All payments have been made in accordance with the approved budget and reflects the effective and timely payment of the Shire’s contractors and other creditors.

STRATEGIC IMPLICATIONS

Shire of Mundaring Council Plan 2024 - 2034

Objective 10 - Sustainable Governance

Outcome 10.1 - Strengthen organisational culture, governance, financial management and asset management.

SUSTAINABILITY IMPLICATIONS

Expenditure has been incurred in accordance with budget parameters, which have been structured on financial viability and sustainability principles.

RISK IMPLICATIONS

Risk: Payments are not monitored against approved budget and delegation.		
Likelihood	Consequence	Rating
Possible	Minor	Moderate
Action / Strategy		
The monthly list of payments provides an open and transparent record of payments made under the CEO’s approved delegation.		

CORPORATE COMMUNICATIONS

The Council Decision will be communicated in the following way/s.

Direct to stakeholder/s	
Website article/ post	
Social media post	
Print article/ media release	
E-newsletter/ Community update	
Advertisement	
Nil	✓

EXTERNAL CONSULTATION

Nil

COMMENT

Payments for the supply of goods and services utilised by the Shire’s Family and Children Services programs are fully funded by government grants/subsidies and user fees.

VOTING REQUIREMENT

Simple Majority

OFFICER RECOMMENDATION

That Council notes the list of payments made during January 2025 (**Attachment 1**).

PAYMENTS BETWEEN MEETINGS

The schedule of accounts paid for the month of January 2025 totals **\$4,730,985.20**

and includes:

- Municipal Cheques 200700 – 200702 and
- Electronic Funds Transfers.

Schedule of Accounts:

	Direct Debit Amounts \$	Total \$
MUNICIPAL CHEQUE PAYMENTS		1,191.45
EFT PAYMENTS		3,049,745.18
EFT PAYROLL PAYMENTS		1,241,174.37
BENDIGO MERCHANT BANK FEES	2,743.03	
BENDIGO DIRECT DEBIT FEES (incl. FTS)	201.75	
SUPERCHOICE	263,758.00	
COMMONWEALTH BANK – BPOINT FEES	30.46	
WEX AUSTRALIA	381.78	
NATIONAL AUSTRALIA BANK (NAB PURCHASE CARD)	17,657.78	
FLEETCARE FUEL PAYMENTS	7,826.50	
HP FINANCIAL SERVICES - EQUIPMENT LEASE	20,011.20	
KONICA MINOLTA – PRINTER LEASE	4,368.66	
WA TREASURY CORPORATION	91,888.81	
WA TREASURY CORPORATION – GUARANTEE FEE	27,176.58	
QIKKIDS – FEES	62.04	
CBA MERCHANT FEE	585.67	
BPAY MONTHLY FEE	1,905.48	
DEBITSUCCESS	276.46	
TOTAL ELECTRONIC FUND PAYMENTS DIRECT FROM MUNICIPAL ACCOUNT		438,874.20
TOTAL MUNICIPAL ACCOUNT		4,730,985.20
TRUST ACCOUNT		0.00
TOTAL OF MUNICIPAL AND TRUST ACCOUNTS		<u>\$4,730,985.20</u>

MONTHLY LIST OF PAYMENTS
JANUARY 2025

<u>Date</u>	<u>Reference</u>	<u>Pavee</u>	<u>Description</u>	<u>Amount</u>	<u>Total</u>
Cheque Details					
06/01/2025	00200700	Shire of Mundaring	PETTY CASH REIMBURSEMENT		\$ 290.25
03/01/2025	PETTY CASH		PETTY CASH REIMBURSEMENT - AFM LIBRARY	\$ 290.25	
13/01/2025	00200701	Shire of Mundaring	PETTY CASH REIMBURSEMENT		\$ 242.90
08/01/2025	PETTY CASH		PETTY CASH REIMBURSEMENT - LAKE LESCHENAUTIA	\$ 242.90	
22/01/2025	00200702	Shire of Mundaring	PETTY CASH REIMBURSEMENT		\$ 658.30
21/01/2025	PETTY CASH		PETTY CASH REIMBURSEMENT - ADMIN	\$ 658.30	
Total Confirmation Cheques				\$ 1,191.45	\$ 1,191.45
Electronic Funds Transfer					
02/01/2025	3894.11210-01	Mr D A Jeans	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
02/01/2025	3894.11587-01	Mrs N D Zlatnik	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
02/01/2025	3894.13628-01	Mrs P Mehta	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
02/01/2025	3894.14220-01	Ms K Beale	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
02/01/2025	3894.14221-01	Mrs P McNeil	COUNCILLOR ALLOWANCE		\$ 8,813.17
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,808.83	
01/01/2025	ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 5,712.67	
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
02/01/2025	3894.14222-01	Mr L W Ellery	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
02/01/2025	3894.14236-01	Mrs J E Cicchini	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
02/01/2025	3894.4526-01	Mr J S Daw	COUNCILLOR ALLOWANCE		\$ 2,386.42
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
02/01/2025	3894.8924-01	Ms P A Cook	COUNCILLOR ALLOWANCE		\$ 3,814.59
01/01/2025	ICT ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 291.67	
01/01/2025	DSP ALLOWANCE		ENTITLEMENTS FOR JANUARY 2025	\$ 1,428.17	
01/01/2025	MEETING FEE		ENTITLEMENTS FOR JANUARY 2025	\$ 2,094.75	
06/01/2025	3896.34-01	Water Corporation	WATER RATES & FEES		\$ 14,211.72
04/01/2025	9004693298		WATER RATES & FEES	\$ 11.40	
04/01/2025	9004680788		WATER RATES & FEES	\$ 169.45	
04/01/2025	9004684543		WATER RATES & FEES	\$ 12,850.79	
04/01/2025	9012388904		WATER RATES & FEES	\$ 1,180.08	
06/01/2025	3897.12599-01	Department of Energy, Mines, Industry	BUILDING SERVICES LEVY		\$ 13,181.14
03/01/2025	NOVEMBER 2024		BUILDING SERVICES LEVY - NOVEMBER 2024	\$ 13,181.14	
06/01/2025	3897.12665-01	Building and Construction Industry	BCITF LEVY		\$ 7,970.31
03/01/2025	INV-256060G3Z3F5		BCITF LEVY - OCTOBER 2024	\$ 7,970.31	
06/01/2025	3897.15935-01	Mr J M Doyle	REFUND		\$ 61.65
03/01/2025	REFUND		REFUND - BUILDING APPLICATION FEE	\$ 61.65	
06/01/2025	3897.15936-01	Mr A J Wittcomb	MEETING FEES		\$ 634.00
03/01/2025	MEETING FEES		INDEPENDENT COMMITTEE MEMBER MEETING FEE AUGUST/DECEMBER 2024	\$ 634.00	

MONTHLY LIST OF PAYMENTS
JANUARY 2025

06/01/2025	3898.11135-01	Frontline Fire & Rescue (Bluesteel)	EQUIPMENT PURCHASES			\$	16,709.47
23/12/2024	84670		EQUIPMENT PURCHASES - DARLING RANGE VBFB	\$	701.69		
23/12/2024	84669		EQUIPMENT PURCHASES - DARLING RANGE VBFB	\$	1,013.47		
23/12/2024	84680		EQUIPMENT PURCHASES - DARLING RANGE VBFB	\$	846.09		
23/12/2024	84682		EQUIPMENT PURCHASES - MOUNT HELENA VBFB	\$	856.65		
23/12/2024	84679		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	456.50		
23/12/2024	84685		EQUIPMENT PURCHASES - CHIDLOW VBFB	\$	428.15		
23/12/2024	84684		EQUIPMENT PURCHASES - CHIDLOW VBFB	\$	302.91		
23/12/2024	84681		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	715.55		
23/12/2024	84678		EQUIPMENT PURCHASES - CHIDLOW VBFB	\$	1,595.00		
23/12/2024	84677		EQUIPMENT PURCHASES - MOUNT HELENA VBFB	\$	18.70		
23/12/2024	84676		EQUIPMENT PURCHASES - SHIRE FIRE TEAM NAME BADGES	\$	30.80		
23/12/2024	84675		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	22.00		
23/12/2024	84674		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	795.10		
23/12/2024	84673		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	59.40		
23/12/2024	84672		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	128.70		
23/12/2024	84671		EQUIPMENT PURCHASES - STONEVILLE VBFB	\$	463.87		
23/12/2024	84668		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	1,452.00		
23/12/2024	84667		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	7.70		
23/12/2024	84666		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	35.92		
23/12/2024	84665		EQUIPMENT PURCHASES - STONEVILLE VBFB	\$	38.72		
23/12/2024	84664		EQUIPMENT PURCHASES - STONEVILLE VBFB	\$	640.22		
23/12/2024	84721		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	86.08		
23/12/2024	84658		EQUIPMENT PURCHASES - DARLINGTON VBFB	\$	84.04		
23/12/2024	84659		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	1,445.98		
23/12/2024	84660		EQUIPMENT PURCHASES - GLEN FORREST VBFB	\$	82.19		
23/12/2024	84661		EQUIPMENT PURCHASES - MOUNT HELENA VBFB	\$	408.43		
23/12/2024	84662		EQUIPMENT PURCHASES - SAWYERS VALLEY VBFB	\$	318.37		
23/12/2024	84663		EQUIPMENT PURCHASES - WOOROLOO VBFB	\$	3,410.69		
23/12/2024	84683		EQUIPMENT PURCHASES - CHIDLOW VBFB	\$	264.55		
06/01/2025	3898.11311-01	Mastec Australia Pty Ltd (The Trustee	EQUIPMENT PURCHASES			\$	44,204.16
20/12/2024	INV20073		SUPPLY & DELIVER 1092X 140L GREEN BINS WITH RED LIDS	\$	44,204.16		
06/01/2025	3898.11953-01	The Stationery Co (C Willis & D J Willis	STATIONERY			\$	415.05
12/12/2024	173590		STATIONERY ITEMS	\$	415.05		
06/01/2025	3898.12-01	Department of Human Services - Child	CHILD SUPPORT PAYMENT			\$	468.87
29/12/2024	PY02-14-CHILD SU		CHILD SUPPORT PAYMENT	\$	468.87		
06/01/2025	3898.12078-01	Recruitwest Pty Ltd	TEMP STAFF			\$	6,866.64
03/01/2025	C INV 592619		TEMP STAFF - CONTAINER COLLECTION DRIVER	\$	1,070.43		
03/01/2025	C INV 592631		TEMP STAFF - PROJECT LABOURER	\$	2,259.54		
03/01/2025	C INV 592643		TEMP STAFF - PROJECT LABOURER	\$	2,259.54		
03/01/2025	C INV 592648		TEMP STAFF - PROJECT LABOURER	\$	1,277.13		
06/01/2025	3898.12134-01	W.A. Library Supplies	LIBRARY SUPPLIES			\$	792.10
24/12/2024	00140392		LIBRARY SUPPLIES	\$	792.10		
06/01/2025	3898.12640-01	Officeworks Ltd	STATIONERY			\$	383.48
15/12/2024	618207427		STATIONERY ITEMS	\$	383.48		
06/01/2025	3898.12751-01	Sprayline Spraying Equipment	EQUIPMENT PURCHASES			\$	234.30
03/01/2025	67128 / 1796-69		SUPPLY 1X 9L SOLVENT SWISSMEX SPRAYER	\$	234.30		
06/01/2025	3898.12859-01	Insight Enterprises Australia Pty Ltd	SUBSCRIPTION			\$	33,665.50
17/12/2024	100489915		MICROSOFT VOLUME AGREEMENT 01/01/2025 - 31/05/2025	\$	33,665.50		
06/01/2025	3898.12899-01	NAPA (A Division of GPC Asia Pacific	PARTS			\$	1,494.26
15/12/2024	1320416391		SUPPLY DOLPHIN 12V BATTERY CHARGER	\$	781.00		
15/12/2024	1320416216		SUPPLY OF WORKSHOP CONSUMABLES	\$	126.40		
15/12/2024	1320416507		SUPPLY V-BELTS FOR P182	\$	28.61		
22/12/2024	1320417074		SUPPLY OF WORKSHOP CONSUMABLES	\$	167.20		
12/12/2024	1320415783		SUPPLY FUEL & WATER SEPERATOR FOR P305	\$	391.05		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

06/01/2025	3898.13-01	Shire of Mundaring	PAYROLL DEDUCTION			\$	13,289.34
29/12/2024	PY01-14-Private		PAYROLL DEDUCTION	\$	1,050.00	\$	
29/12/2024	PY01-14-Buy Addi		PAYROLL DEDUCTION	\$	1,054.39		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	5,939.00		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	1,883.83		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	177.76		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	209.30		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	1,357.50		
29/12/2024	PY01-14-Novated		PAYROLL DEDUCTION	\$	594.60		
29/12/2024	PY02-14-Buy Addi		PAYROLL DEDUCTION	\$	1,022.96		
06/01/2025	3898.13208-01	Fire Protection Services WA Pty Ltd	MAINTENANCE			\$	1,127.54
03/01/2025	11987		FIRE & EMERGENCY SERVICES MAINTENANCE - BOYA COMMUNITY CENTRE	\$	478.96		
03/01/2025	11989		FIRE & EMERGENCY SERVICES MAINTENANCE - ADMIN	\$	129.71		
03/01/2025	11988		FIRE & EMERGENCY SERVICES MAINTENANCE - MUNDARING ARENA	\$	518.87		
06/01/2025	3898.13268-01	Department of Human Services - The	PAYROLL DEDUCTION			\$	60.18
29/12/2024	PY01-14-Centrel		PAYROLL DEDUCTION	\$	60.18		
06/01/2025	3898.13390-01	The Environmental Printing Company	PRINTING			\$	1,529.00
03/01/2025	107715		PRINT 100X TIME SHEET BOOKS	\$	1,529.00		
06/01/2025	3898.13600-01	Stevlec Electrical Pty Ltd	ELECTRICAL SERVICES			\$	589.27
03/01/2025	16827		ELECTRICAL SERVICES - LAKE LESCHENAULTIA BBQ REPAIRS	\$	589.27		
06/01/2025	3898.138-01	Sonic HealthPlus Pty Ltd	MEDICAL EXAMINATION			\$	261.80
10/12/2024	3461610		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80		
06/01/2025	3898.14013-01	Eastern Hills Chainsaws & Mowers Pty	EQUIPMENT REPAIRS			\$	18.00
03/01/2025	52573 #1		SUPPLY OF VARIOUS SMALL PARTS FOR WORKSHOP	\$	18.00		
06/01/2025	3898.14221-01	Mrs P McNeil	COUNCILLOR ALLOWANCE			\$	267.25
03/01/2025	TRAVEL		TRAVEL REIMBURSEMENT 284.4KM 01/12/2024 - 11/12/2024	\$	267.25		
06/01/2025	3898.14236-01	Mrs J E Cicchini	COUNCILLOR ALLOWANCE			\$	168.48
03/01/2025	TRAVEL		TRAVEL REIMBURSEMENT 248.8KM 14/10/2024 - 10/12/2024	\$	168.48		
06/01/2025	3898.14307-01	JMC2 Pty Ltd	ADVERTISING			\$	1,419.00
03/01/2025	INV-1583		ADVERTISING	\$	1,419.00		
06/01/2025	3898.14644-01	Uniting Global Pty Ltd	CLEANING			\$	93,440.60
24/12/2024	INV-2342		CLEANING SERVICES - NOVEMBER 2024	\$	93,440.60		
06/01/2025	3898.15119-01	Bolinda Digital Pty Ltd	ELECTRONIC RESOURCES			\$	584.17
24/12/2024	466855		ELECTRONIC RESOURCES - EBOOKS & EAUDIOBOOKS	\$	584.17		
06/01/2025	3898.15128-01	Mode Design Corp. Pty Ltd	PROFESSIONAL SERVICES			\$	14,852.20
03/01/2025	101011379		BILGOMAN AQUATIC CENTRE CHANGEROOMS UPGRADE	\$	9,157.50		
04/01/2025	101011372		BILGOMAN AQUATIC CENTRE CHANGEROOMS UPGRADE	\$	5,694.70		
06/01/2025	3898.15170-01	Twistech Pty Ltd	FENCING			\$	1,736.96
03/01/2025	INV-0511		REPAIR DAMAGED FENCING - COPPIN RD TRANSFER STATION	\$	1,736.96		
06/01/2025	3898.15183-01	Mitchell Byrne's Contracting Pty Ltd	SLASHING WORKS			\$	3,460.60
24/12/2024	1321-2024		SLASHING WORKS - R30619 HERBERT ST CHIDLAW	\$	1,320.00		
24/12/2024	1320-2024		SLASHING WORKS - MASON ST CHIDLAW	\$	2,140.60		
06/01/2025	3898.15188-01	Hills Fresh (Hill Fresh Fruit & Vegetables)	MILK			\$	459.89
04/01/2025	ADMIN NOV/DEC 24		MILK SUPPLY FOR SHIRE OF MUNDARING	\$	459.89		
06/01/2025	3898.1521-01	Dial A Nappy & Busiclean	GOODS			\$	650.20
20/12/2024	INV-18545		CLEANING CHEMICALS FOR CPC MIDDLE SWAN	\$	650.20		
06/01/2025	3898.15225-01	Rudd Industrial (Synergy Business)	PARTS			\$	158.25
22/12/2024	3087090A		SUPPLY MINOR WORKSHOP CONSUMABLE ITEMS FOR REPAIRS	\$	158.25		
06/01/2025	3898.15242-01	Chidlow Water Carriers	WATER			\$	1,000.00
03/01/2025	INV-1922		REFILL EMERGENCY WATER TANK AT BP LAKES FIRE INCIDENT#703233	\$	1,000.00		
06/01/2025	3898.15277-01	Instant Waste Management (Kelair)	RECYCLING			\$	573.10
03/01/2025	5015759		CARDBOARD RECYCLING - GREAT EASTERN HWY/LIONEL RD DARLINGTON	\$	234.30		
03/01/2025	5015760		CARDBOARD RECYCLING - MUNDARING WEIR RD MUNDARING	\$	169.40		
03/01/2025	5015761		CARDBOARD RECYCLING - DARKAN ST MUNDARING	\$	169.40		
06/01/2025	3898.15287-01	Komatsu Australia Pty Ltd	PARTS			\$	78.36
03/01/2025	003965262		SUPPLY 2X FAN BELTS FOR P294	\$	78.36		
06/01/2025	3898.15437-01	WA School Canteen Suppliers	KIOSK STOCK			\$	2,089.78
19/12/2024	00003404		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	1,171.69		
19/12/2024	00003405		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	98.95		
03/01/2025	00003410		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	729.19		
03/01/2025	00003412		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	89.95		
06/01/2025	3898.15457-01	The Local Government Racing &	PAYROLL DEDUCTION			\$	22.00
29/12/2024	PY01-14-LGRCEU		PAYROLL DEDUCTION	\$	22.00		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

06/01/2025	3898.15742-01	Waste Wise Transport Services Pty Ltd	WASTE COLLECT						
13/12/2024	INV-0045		COLLECT & DISPOSE OF ILLEGALLY DUMPED WASTE	\$	1,617.00	\$	1,617.00		
06/01/2025	3898.15774-01	The Resources Hub (Emerge Safe Pty	TEMP STAFF						
03/01/2025	INV-2819		TEMP STAFF - PLANT MECHANIC	\$	3,706.44	\$	3,706.44		
06/01/2025	3898.15781-01	Programmed Skilled Workforce Limited	TEMP STAFF						
13/12/2024	4932116		TEMP STAFF - COMMUNITY EVENTS OFFICER	\$	824.82				4,143.80
13/12/2024	4932115		TEMP STAFF - COORDINATOR COMMUNICATIONS	\$	3,318.98				
06/01/2025	3898.15834-01	Allused Pty Ltd	EQUIPMENT HIRE						
20/12/2024	210706214		HIRE HYDRAULIC SCREENING BUCKET 01/12/2024 - 05/12/2024	\$	880.00	\$	880.00		
06/01/2025	3898.15843-01	Chronicle RIP Pty Ltd	MAINTENANCE						
03/01/2025	INV-0695		UPGRADE 6X NICHE WALLS TO HAVE POP-UP DISPLAYS	\$	1,683.00	\$	1,683.00		
06/01/2025	3898.15899-01	Get Wired Up Electrical and Contracting	ELECTRICAL SERVICES						
24/12/2024	INV-0043		ELECTRICAL SERVICES - BILGOMAN AQUATIC CENTRE	\$	1,320.00	\$	1,320.00		
06/01/2025	3898.15933-01	Gutter-Vac Midland (The Trustee for	MAINTENANCE						
03/01/2025	8627		CLEANED GUTTERS - MUNDARING FIRE SCHOOL BUILDING	\$	324.50	\$	324.50		
06/01/2025	3898.191-01	Eastern Region Security	SECURITY EXPENSES						
03/01/2025	00022530		SECURITY EXPENSES - LAKE LESCHENAULTIA	\$	1,386.00	\$	1,386.00		
06/01/2025	3898.21-01	Eastern Metropolitan Regional Council	TRANSFER STATION FEES						
03/01/2025	EMRC61589		MATTRESS RECYCLING - MATHIESON RD TRANSFER STATION	\$	1,224.00	\$	1,224.00		
03/01/2025	EMRC61663		TRANSFER STATION FEES	\$	40,623.71	\$	40,623.71		
06/01/2025	3898.2119-01	City of Armadale	PRINTING						
13/12/2024	49887		SUPPLY & DELIVER 50X WILDLIFE COUNTS STICKERS	\$	95.45	\$	95.45		
06/01/2025	3898.215-01	Deputy Commissioner of Taxation	TAXATION						
29/12/2024	PY02-14-Deputy C		PAYROLL DEDUCTION	\$	22,552.00				
29/12/2024	PY01-14-Deputy C		PAYROLL DEDUCTION	\$	143,320.00				
06/01/2025	3898.218-01	Security & Key Distributors	SECURITY EXPENSES						
24/12/2024	98169		SUPPLY & DELIVER BILOCK PADLOCK & 4X BILOCK KEYS	\$	364.65	\$	364.65		
24/12/2024	98238		SUPPLY & DELIVER 3X BILOCK CUT KEYS	\$	130.29				
06/01/2025	3898.26-01	Revival Signs	SIGNS						
24/12/2024	0486		INSTALL 2X SIGNS AT BILGOMAN AQUATIC CENTRE	\$	95.68	\$	95.68		
06/01/2025	3898.2625-01	Stewart & Heaton Clothing Co	UNIFORMS						
23/12/2024	SIN-4007404		UNIFORMS - CHIDLOW VBFB	\$	183.68				
23/12/2024	SIN-4006452		UNIFORMS - CHIDLOW VBFB	\$	734.71				
23/12/2024	SIN-4004997		UNIFORMS - WOOROLOO VBFB	\$	386.11				
23/12/2024	SIN-4004999		UNIFORMS - SAWYERS VALLEY VBFB	\$	772.22				
23/12/2024	SIN-4007873		UNIFORMS - DARLINGTON VBFB	\$	360.61				
23/12/2024	SIN-4007872		UNIFORMS - SAWYERS VALLEY VBFB	\$	1,081.84				
23/12/2024	SIN-4007513		UNIFORMS - PARKERVILLE VBFB	\$	183.68				
23/12/2024	SIN-4005003		UNIFORMS - CHIDLOW VBFB	\$	551.03				
06/01/2025	3898.2805-01	University of South Australia	PROFESSIONAL SERVICES						
03/01/2025	334168		CERM PERFORMANCE INDICATOR CUSTOMER SERVICE SURVEY	\$	4,081.00	\$	4,081.00		
06/01/2025	3898.295-01	Coca Cola Europacific Partners	KIOSK SUPPLIES						
03/01/2025	235640605		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE	\$	648.34	\$	648.34		
06/01/2025	3898.300-01	Civica Pty Ltd	FEES						
12/12/2024	C/LG040181		PURCHASE OF AUTH PPS	\$	119.30				
13/12/2024	C/LA040196		SPYDUS MANAGED SERVICES FEE 01/02/2025 - 31/04/2025	\$	10,312.50				
13/12/2024	M/LG0029310		IMPLEMENTATION & LICENCE ONLINE TIMESHEET MODULE	\$	4,565.00				
06/01/2025	3898.3493-01	BGC Quarries	ROCKBASE						
13/12/2024	IQ51332		SUPPLY 7MM WASHED GRANITE	\$	1,063.42	\$	1,063.42		
06/01/2025	3898.375-01	Team Global Express Pty Ltd	COURIER SERVICES						
24/12/2024	0647-S364420		COURIER SERVICES	\$	738.31	\$	738.31		
06/01/2025	3898.385-01	Mundaring News & Lotto	SUBSCRIPTIONS						
15/12/2024	6651		MAGAZINE SUBSCRIPTIONS - AFM & KSP LIBRARIES	\$	428.17	\$	428.17		
06/01/2025	3898.386-01	Educational Art Supplies	ART SUPPLIES						
03/01/2025	3585848		ART SUPPLIES - AFM LIBRARY	\$	217.77	\$	217.77		
06/01/2025	3898.4-01	Health Insurance Fund of WA	PAYROLL DEDUCTION						
29/12/2024	PY01-14-HIF		PAYROLL DEDUCTION	\$	623.25	\$	623.25		
06/01/2025	3898.4453-01	Technifire 2000	VEHICLE REPAIRS						
03/01/2025	25538		MODIFY TANK FILL & REPAIR WATER LEAK CHIDLOW 4.4R	\$	2,195.78	\$	2,195.78		
06/01/2025	3898.5719-01	Shire of Mundaring - Lotto Club	PAYROLL DEDUCTION						
29/12/2024	PY01-14-STAFF LO		PAYROLL DEDUCTION	\$	258.02	\$	258.02		
29/12/2024	PY02-14-STAFF LO		PAYROLL DEDUCTION	\$	13.58	\$	13.58		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

06/01/2025	3898.6-01	Shire of Mundaring - Social Club	PAYROLL DEDUCTION			\$	240.00	\$	240.00
29/12/2024	PY01-14-MUNDARIN		PAYROLL DEDUCTION			\$	240.00		
06/01/2025	3898.68-01	The Watershed Water Systems	RETICULATION PARTS			\$	954.12	\$	1,388.81
22/12/2024	10256877		RETICULATION PARTS			\$	284.69		
22/12/2024	10256878		RETICULATION PARTS			\$	150.00		
22/12/2024	10256885		RETICULATION PARTS						
06/01/2025	3898.7-01	Australian Services Union	PAYROLL DEDUCTION			\$	147.00	\$	253.00
29/12/2024	PY01-14-AUSTRALI		PAYROLL DEDUCTION			\$	106.00		
29/12/2024	PY02-14-AUSTRALI		PAYROLL DEDUCTION						
06/01/2025	3898.7030-01	Mundaring Seniors Incorporated	REIMBURSEMENT			\$	1,307.80	\$	1,307.80
03/01/2025	7		REIMBURSEMENT - VEHICLE INSPECTION & REGO 1EWR880						
06/01/2025	3898.707-01	Australian Safety Engineers WA	MAINTENANCE OF EQUIPMENT			\$	33.00	\$	33.00
19/12/2024	0163432W		REFILL BA CYLINDER - BILGOMAN AQUATIC CENTRE						
06/01/2025	3898.7083-01	Mount Helena Deli & Takeaway	CATERING			\$	38.10	\$	38.10
24/12/2024	518755		CATERING - MALMALLING FIRE INCIDENT# 700833						
06/01/2025	3898.7590-01	PFD Food Services Pty Ltd	KIOSK SUPPLIES			\$	1,168.55	\$	1,168.55
24/12/2024	LN992977		KIOSK SUPPLIES - MT HELENA AQUATIC CENTRE						
06/01/2025	3898.80-01	Bunnings Group Limited	HARDWARE			\$	383.60	\$	2,262.89
11/12/2024	2440/00263738		HARDWARE ITEMS			\$	63.17		
24/12/2024	2440/00871850		HARDWARE ITEMS			\$	366.35		
12/12/2024	2440/01196231		HARDWARE ITEMS			\$	278.18		
12/12/2024	2440/01210515		HARDWARE ITEMS			\$	149.00		
15/12/2024	2406/00110916		HARDWARE ITEMS			\$	609.54		
15/12/2024	2440/01210400		HARDWARE ITEMS			\$	163.90		
12/12/2024	2174/01225345		HARDWARE ITEMS			\$	71.52		
12/12/2024	2440/00870203		HARDWARE ITEMS			\$	30.33		
22/12/2024	2440/01196850		HARDWARE ITEMS			\$	110.02		
22/12/2024	2440/00871848		HARDWARE ITEMS			\$	37.28		
22/12/2024	2440/01211613		HARDWARE ITEMS						
06/01/2025	3898.8275-01	E Fire & Safety	MAINTENANCE			\$	44.00	\$	44.00
23/12/2024	624369		SERVICING OF FIRE EQUIPMENT - CHIDLOW PLAYGROUP						
06/01/2025	3898.8611-01	Brownes Foods Operations Pty Ltd	KIOSK SUPPLIES			\$	389.29	\$	389.29
03/01/2025	18183228		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE						
06/01/2025	3898.969-01	Slater Gartrell Sports	EQUIPMENT PURCHASES			\$	288.20	\$	288.20
24/12/2024	SG69225/01		SUPPLY 2X MEGAPHONES FOR LAKE LESCHENAULTIA						
06/01/2025	3898.9698-01	Managed System Services Pty Ltd	MSS DEVELOPMENT SERVICES			\$	82,500.00	\$	82,500.00
10/12/2024	INV-9537		MSS DEVELOPMENT SERVICES - 1000 HOURS						
08/01/2025	3899.3462-01	Care Giver Subsidies	CARE GIVER SUBSIDIES			\$	16,678.28	\$	16,678.28
08/01/2025	080125		CARE GIVER SUBSIDIES						
10/01/2025	3900.15946-01	Ms G I Batt	RATES REFUND			\$	91.92	\$	91.92
10/01/2025	Refund Levy 7		RATES REFUND						
13/01/2025	3901.34-01	Water Corporation	WATER RATES & FEES			\$	71.25	\$	8,168.10
10/01/2025	9010381397		WATER RATES & FEES			\$	105.45		
10/01/2025	9004631724		WATER RATES & FEES			\$	96.90		
10/01/2025	9004646790		WATER RATES & FEES			\$	88.35		
10/01/2025	9009882418		WATER RATES & FEES			\$	153.90		
10/01/2025	9004637480		WATER RATES & FEES			\$	1,402.20		
10/01/2025	9004645034		WATER RATES & FEES			\$	37.05		
10/01/2025	9004650204		WATER RATES & FEES			\$	6,150.30		
10/01/2025	9004646782		WATER RATES & FEES			\$	62.70		
10/01/2025	9004631716		WATER RATES & FEES						
13/01/2025	3902.12558-01	Miss L Nebel	GRANT			\$	300.00	\$	300.00
10/01/2025	GRANT		YOUTH GRANT PROGRAM						
13/01/2025	3902.12665-01	Building and Construction Industry	BCITF LEVY			\$	1,703.37	\$	1,703.37
08/01/2025	INV-258865G4S3F3		BCITF LEVY - NOVEMBER 2024						
13/01/2025	3902.13404-01	Mr D W Johnston	REIMBURSEMENT			\$	44.00	\$	44.00
10/01/2025	REIMBURSEMENT		REIMBURSEMENT - HIGH RISK WORK LICENCE RENEWAL						
13/01/2025	3902.14910-01	Telstra Limited	TELEPHONE			\$	9,906.93	\$	9,906.93
10/01/2025	2085566000		TELEPHONE CHARGES - DECEMBER 2024						
13/01/2025	3902.15480-01	Perth Hills Junior Cricket Club	GRANT			\$	2,000.00	\$	2,000.00
07/01/2025	GRANT		MATCHING GRANT						
13/01/2025	3902.15626-01	Mr O Nebel	GRANT			\$	200.00	\$	200.00
10/01/2025	GRANT		YOUTH GRANT PROGRAM						

MONTHLY LIST OF PAYMENTS
JANUARY 2025

13/01/2025	3903.12331-01	Supreme Shades	SHADE SAILS						
08/01/2025	00015559		SUPPLY & INSTALL 2X SHADE SAILS - SHIRE DEPOT	\$	4,405.50	\$			4,405.50
13/01/2025	3903.12403-01	SMS Access Sales	PARTS						
10/01/2025	INV-03876		SUPPLY EMERGENCY DOWN VALVE FOR VERTICAL LIFTER	\$	385.00	\$			385.00
13/01/2025	3903.12451-01	Rainchaser Pumps and Reticulation	CONSUMABLES						
06/01/2025	INV-4226		SUPPLY OF WORKSHOP CONSUMABLES	\$	41.72	\$			41.72
13/01/2025	3903.12486-01	KCI Industries	MAINTENANCE						
10/01/2025	00186909		CALL OUT TO SERVICE DISHWASHER - LAKE LESCHENAULTIA	\$	275.00	\$			275.00
13/01/2025	3903.12579-01	Mr V Crowe	LANDSCAPE SERVICES						
08/01/2025	2476		LANDSCAPE SERVICES - SCFC CLAYTON VIEW	\$	288.00	\$			2,592.00
08/01/2025	2477		LANDSCAPE SERVICES - CPC MIDDLE SWAN	\$	288.00				
08/01/2025	2478		LANDSCAPE SERVICES - MECPC	\$	288.00				
08/01/2025	2480		LANDSCAPE SERVICES - SCFC CLAYTON VIEW	\$	288.00				
08/01/2025	2481		LANDSCAPE SERVICES - MECPC	\$	288.00				
08/01/2025	2482		LANDSCAPE SERVICES - CPC MIDDLE SWAN	\$	288.00				
08/01/2025	2483		LANDSCAPE SERVICES - SCFC CLAYTON VIEW	\$	288.00				
08/01/2025	2484		LANDSCAPE SERVICES - CPC MIDDLE SWAN	\$	288.00				
08/01/2025	2485		LANDSCAPE SERVICES - MECPC	\$	288.00				
13/01/2025	3903.12640-01	Officeworks Ltd	STATIONERY						
07/01/2025	618484178		STATIONERY ITEMS	\$	802.19	\$			802.19
13/01/2025	3903.12790-01	S&R Glass	VEHICLE REPAIRS						
10/01/2025	1805		INSTALL LAMINATE IN 8X BROKEN WINDOWS PARKERVILLE HALL	\$	1,764.00	\$			1,764.00
13/01/2025	3903.12899-01	NAPA (A Division of GPC Asia Pacific	PARTS						
22/12/2024	1320417607		SUPPLY OF WORKSHOP CONSUMABLES	\$	280.95				
22/12/2024	1320417300		SUPPLY MIRROR HEADS & SPARK PLUGS FOR P725	\$	104.61				
22/12/2024	1320417374		SUPPLY MULTIBAN CELLULAR ANTENNA FOR P675	\$	283.80				
06/01/2025	1320418167		SUPPLY ASSORTED FILTERS FOR P2504	\$	142.73				
06/01/2025	1320418357		SUPPLY DOLPHIN 12V BATTERY CHARGER	\$	781.00				
06/01/2025	1320418095		SUPPLY FUEL FILTER WATER SEPARATOR CARTRIDGES FOR P297	\$	94.60				
06/01/2025	1320418329		SUPPLY PARTS FOR P279	\$	564.30				
06/01/2025	1320418341		SUPPLY FIRE EXTINGUISHER, BRACKET & BAG FOR P2469	\$	594.99				
06/01/2025	1320417609		SUPPLY OF WORKSHOP CONSUMABLES	\$	20.90				
06/01/2025	1320418106		SUPPLY ASSORTED FILTERS FOR P2504	\$	306.63				
13/01/2025	3903.12984-01	AJL Plumbing and Gas Pty Ltd (ATF T	PLUMBING SERVICES						
08/01/2025	AJL15427		BACKFLOW TESTING R18731 PINE TCE DARLINGTON	\$	198.00	\$			913.00
10/01/2025	AJL15334		PLUMBING SERVICES - MT HELENA FIRE BRIGADE SHED	\$	715.00				
13/01/2025	3903.13158-01	Better Pets and Gardens Midland (BP	PET SUPPLIES						
10/01/2025	5-02-352465		PET SUPPLIES FOR POUND	\$	260.75	\$			260.75
13/01/2025	3903.13345-01	ABM Landscaping (Mikevie Pty Ltd T/	LANDSCAPING						
04/01/2025	INV-6227		MOWING SERVICE - BILGOMAN AQUATIC CENTRE	\$	418.00	\$			41,352.10
10/01/2025	INV-6162		LANDSCAPE MAINTENANCE - ADMIN & MUNDARING TOWN CENTRE	\$	13,176.22				
10/01/2025	INV-6163		LANDSCAPE MAINTENANCE - HELENA VALLEY RD ENTRY STATEMENT/RESERVE	\$	17,647.10				
10/01/2025	INV-6164		LANDSCAPE MAINTENANCE - GREAT EASTERN HIGHWAY	\$	2,046.08				
10/01/2025	INV-6165		LANDSCAPE MAINTENANCE - MUNDARING COMMUNITY CENTRES	\$	2,441.20				
10/01/2025	INV-6175		LANDSCAPE MAINTENANCE - STONEVILLE FIRE HALL	\$	209.00				
10/01/2025	INV-6178		LANDSCAPE MAINTENANCE - SCULPTURE PARK & MORGAN JOHN MORGAN	\$	5,414.50				
13/01/2025	3903.13400-01	F.L. Costello & Co	MAINTENANCE						
10/01/2025	J62610		ANNUAL SERVICE OF WASHER & DRYER - MECPC	\$	534.16	\$			534.16
13/01/2025	3903.13540-01	ELM (WA) Pty Ltd	MOWING SERVICES						
10/01/2025	INV-4977		MOWING SERVICES - OCTOBER 2024	\$	5,790.85	\$			5,790.85
13/01/2025	3903.138-01	Sonic HealthPlus Pty Ltd	MEDICAL EXAMINATION						
07/01/2025	3472447		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80				
24/12/2024	3469933		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80				
24/12/2024	3471188		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80				
13/01/2025	3903.14051-01	Sweeping Services Australia Pty Ltd	STREET SWEEPING SERVICES						
10/01/2025	INV-0716		SUPPLY OF STREET SWEEPING SERVICES	\$	8,798.32	\$			8,798.32
13/01/2025	3903.14073-01	Tony's House of Tender Meats (GK &	FOOD						
10/01/2025	67677		MEAT SUPPLIES FOR CHILDREN - MECPC	\$	528.54	\$			528.54
13/01/2025	3903.14594-01	Focus Networks (Progressive Creative	PROFESSIONAL SERVICES						
19/12/2024	INV-10943G		REVIEW IT DISASTER RECOVERY PLAN	\$	1,782.00	\$			1,782.00

MONTHLY LIST OF PAYMENTS
JANUARY 2025

13/01/2025	3903.14644-01	Uniting Global Pty Ltd	CLEANING						
10/01/2025	INV-2419		CLEANING SERVICES - DECEMBER 2024	\$	95,074.10	\$			95,074.10
13/01/2025	3903.14771-01	Glen Forrest Pharmacy	FIRST AID REPLENISHMENT			\$			265.68
10/01/2025	1037578		FIRST AID REPLENISHMENT - BILGOMAN AQUATIC CENTRE	\$	265.68				
13/01/2025	3903.14882-01	BB Recruitment & Consulting Service	TEMP STAFF			\$			1,159.40
08/01/2025	I0004608		TEMP STAFF - MECPC CHILDCARE AGENCY STAFF	\$	1,159.40				
13/01/2025	3903.15-01	Australia Post	POSTAGE			\$			3,419.52
08/01/2025	1013720444		RATES COLLECTION FEES DECEMBER 2024	\$	460.57				
04/01/2025	1013732862		DAILY OUTGOING MAIL	\$	2,695.35				
10/01/2025	1013732510		POSTAGE FOR MUNDARING LIBRARY	\$	263.60				
13/01/2025	3903.15042-01	Zenith Corporation Australia Pty Ltd	FURNITURE			\$			2,041.32
07/01/2025	#100186		SUPPLY & DELIVER 2X PLAZA 2 SEATER LOUNGES	\$	2,041.32				
13/01/2025	3903.15170-01	Twistech Pty Ltd	FENCING			\$			308.00
08/01/2025	INV-0512		REPAIR DAMAGED FENCING - COPPIN RD TRANSFER STATION	\$	308.00				
13/01/2025	3903.15183-01	Mitchell Byrne's Contracting Pty Ltd	SLASHING WORKS			\$			5,643.00
10/01/2025	1328-2025		SLASHING WORKS - R46817 GILL ST/BUGLE ST BOYA	\$	2,695.00				
10/01/2025	1323-2024		SLASHING WORKS - UNMADE RD CHIDLOW	\$	2,948.00				
13/01/2025	3903.15242-01	Chidlow Water Carriers	WATER			\$			2,750.00
08/01/2025	INV-1947		REFILL EMERGENCY WATER TANK AT BP LAKES FIRE INCIDENT#703233	\$	2,750.00				
13/01/2025	3903.15287-01	Komatsu Australia Pty Ltd	PARTS			\$			564.01
06/01/2025	003983271		SUPPLY HOSE, CLAMPS & COOLANT FOR P294	\$	564.01				
13/01/2025	3903.15437-01	WA School Canteen Suppliers	KIOSK STOCK			\$			602.77
10/01/2025	00003421		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	89.95				
10/01/2025	00003422		KIOSK STOCK - BILGOMAN AQUATIC CENTRE	\$	512.82				
13/01/2025	3903.15535-01	Battery World - Midland (The Trustee)	BATTERIES			\$			578.00
22/12/2024	IN603A0001050		SUPPLY BATTERIES FOR P747 & P726	\$	578.00				
13/01/2025	3903.15544-01	Filters Plus WA (Filterco Pty Ltd T	PARTS			\$			247.50
06/01/2025	0000230897-D01		SUPPLY AIR FILTERS FOR P747	\$	247.50				
13/01/2025	3903.15579-01	Westbooks (J.D Caffey & Caffey Family	BOOKS			\$			2,799.85
10/01/2025	345816		BOOK STOCK - AFM LIBRARY	\$	408.45				
10/01/2025	345860		BOOK STOCK - KSP LIBRARY	\$	37.08				
10/01/2025	345819		BOOK STOCK - KSP LIBRARY	\$	349.90				
10/01/2025	345866		BOOK STOCK - AFM LIBRARY	\$	244.90				
10/01/2025	345858		BOOK STOCK - KSP LIBRARY	\$	52.48				
10/01/2025	345862		BOOK STOCK - KSP LIBRARY	\$	115.48				
10/01/2025	345857		BOOK STOCK - KSP LIBRARY	\$	344.15				
10/01/2025	345859		BOOK STOCK - KSP LIBRARY	\$	458.22				
10/01/2025	345861		BOOK STOCK - KSP LIBRARY	\$	141.31				
10/01/2025	345863		BOOK STOCK - AFM LIBRARY	\$	271.42				
10/01/2025	345864		BOOK STOCK - AFM LIBRARY	\$	111.26				
10/01/2025	345865		BOOK STOCK - AFM LIBRARY	\$	16.09				
10/01/2025	345817		BOOK STOCK - AFM LIBRARY	\$	39.17				
10/01/2025	345815		BOOK STOCK - AFM LIBRARY	\$	185.45				
10/01/2025	345818		BOOK STOCK - AFM LIBRARY	\$	24.49				
13/01/2025	3903.15663-01	Uniforms at Work Australia Pty Ltd	UNIFORMS			\$			4,081.35
06/01/2025	47000007		UNIFORMS - LIBRARY STAFF	\$	456.10				
03/01/2025	47000017		UNIFORMS - LIBRARY STAFF	\$	261.65				
03/01/2025	47000008-1		UNIFORMS - LIBRARY STAFF	\$	138.10				
24/12/2024	47000006		UNIFORMS - LIBRARY STAFF	\$	1,087.20				
24/12/2024	47000012-2		UNIFORMS - LIBRARY STAFF	\$	232.70				
24/12/2024	47000012-1		UNIFORMS - LIBRARY STAFF	\$	160.60				
24/12/2024	47000016-2		UNIFORMS - LIBRARY STAFF	\$	232.25				
24/12/2024	47000016-1		UNIFORMS - LIBRARY STAFF	\$	86.15				
24/12/2024	47000011-1		UNIFORMS - LIBRARY STAFF	\$	380.40				
24/12/2024	47000010-1		UNIFORMS - LIBRARY STAFF	\$	348.35				
24/12/2024	47000015-1		UNIFORMS - LIBRARY STAFF	\$	403.60				
24/12/2024	47000009		UNIFORMS - LIBRARY STAFF	\$	154.15				
24/12/2024	47000013		UNIFORMS - LIBRARY STAFF	\$	140.10				
13/01/2025	3903.15754-01	McLeods Lawyers Pty Ltd	LEGAL MATTER			\$			6,296.95
10/01/2025	142793		LEGAL MATTER 54019 - DOG ACT PROSECUTIONS	\$	770.88				
10/01/2025	142787		LEGAL MATTER 54005 - DOG ACT PROSECUTIONS	\$	1,119.14				
10/01/2025	142770		LEGAL MATTER 53897 - DOG ACT PROSECUTION	\$	582.23				
08/01/2025	142706		LEGAL MATTER 53619 - EMPLOYMENT LAW ISSUES	\$	3,824.70				

MONTHLY LIST OF PAYMENTS
JANUARY 2025

13/01/2025	3903.15759-01	PaperScout (Planet of the Shapes Pty	PROFESSIONAL SERVICES						
07/01/2025	MU240732B		ANNUAL REPORT DESIGN & DEVELOPMENT	\$	3,080.00	\$	3,080.00		
13/01/2025	3903.15774-01	The Resources Hub (Emerge Safe Pty	TEMP STAFF			\$		\$	7,412.87
10/01/2025	INV-2830		TEMP STAFF - PLANT MECHANIC	\$	4,447.72				
10/01/2025	INV-2831		TEMP STAFF - PLANT MECHANIC	\$	2,965.15				
13/01/2025	3903.15781-01	Programmed Skilled Workforce Limited	TEMP STAFF			\$		\$	1,865.49
24/12/2024	4938218		TEMP STAFF - COMMUNITY EVENTS OFFICER	\$	353.50				
24/12/2024	4938219		TEMP STAFF - GRANTS OFFICER	\$	1,511.99				
13/01/2025	3903.15897-01	Mr K Norris	PHOTOGRAPHY			\$		\$	1,000.00
10/01/2025	001		PHOTOGRAPHY SERVICES DECEMBER 2024 - FEBRUARY 2025	\$	1,000.00				
13/01/2025	3903.15899-01	Get Wired Up Electrical and Contract	ELECTRICAL SERVICES			\$		\$	501.60
10/01/2025	INV-0048		ELECTRICAL SERVICES - BILGOMAN AQUATIC CENTRE	\$	501.60				
13/01/2025	3903.15900-01	Shipping Containers Leasing Pty Ltd	EQUIPMENT PURCHASES			\$		\$	9,592.00
13/01/2025	SCL7445		SUPPLY & DELIVER 8FT DANGEROUS GOODS CONTAINER	\$	9,592.00				
13/01/2025	3903.15915-01	Mr M Thornton-Smith	PROFESSIONAL SERVICES			\$		\$	890.23
10/01/2025	#0003		PROVIDE PLEIN AIR & COLOUR WORKSHOP - SCHOOL HOLIDAY PROGRAM	\$	890.23				
13/01/2025	3903.15940-01	Australian Institute of Management	CONSULTANCY SERVICES			\$		\$	49.00
10/01/2025	M716038-24		PROFESSIONAL MEMBERSHIP 01/12/2024 - 30/11/2025	\$	49.00				
13/01/2025	3903.1644-01	Woolworths Group Limited	FOOD & CONSUMABLES			\$		\$	203.82
08/01/2025	TI-040D7-178D53		FOOD & CONSUMABLES FOR CHILDREN - MECPC	\$	203.82				
13/01/2025	3903.189-01	LGISWA	INSURANCE			\$		\$	91,564.00
13/01/2025	100-160113		WORKERS COMPENSATION PREMIUM ADJUSTMENT 2019/2020	\$	18,222.60				
13/01/2025	100-160126		WORKERS COMPENSATION PREMIUM ADJUSTMENT 2022/2023	\$	73,341.40				
13/01/2025	3903.191-01	Eastern Region Security	SECURITY EXPENSES			\$		\$	10,730.50
08/01/2025	00022575		SECURITY EXPENSES - SCFC CLAYTON VIEW	\$	110.00				
09/01/2025	00022571		SECURITY EXPENSES - DEPOT	\$	341.00				
10/01/2025	00022574		SECURITY EXPENSES - ELSIE AUSTIN OVAL PAVILION	\$	110.00				
10/01/2025	00022570		SECURITY EXPENSES - ADMIN BUILDING	\$	880.00				
10/01/2025	00022528		SECURITY EXPENSES - BILGOMAN AQUATIC CENTRE	\$	1,622.50				
10/01/2025	00022563		SECURITY EXPENSES - BILGOMAN AQUATIC CENTRE	\$	2,007.50				
10/01/2025	00022582		SECURITY EXPENSES - BILGOMAN AQUATIC CENTRE	\$	3,459.50				
10/01/2025	00022572		SECURITY EXPENSES - DARLINGTON VBFB	\$	300.00				
10/01/2025	00022573		SECURITY EXPENSES - PARKERVILLE VBFB	\$	440.00				
10/01/2025	00022576		SECURITY EXPENSES - VARIOUS SHIRE BUILDINGS	\$	1,430.00				
13/01/2025	3903.21-01	Eastern Metropolitan Regional Council	TRANSFER STATION FEES			\$		\$	1,443.00
10/01/2025	EMRC61781		TRANSFER STATION FEES	\$	1,443.00				
13/01/2025	3903.234-01	Coles Supermarkets Australia Pty Ltd	KIOSK SUPPLIES			\$		\$	702.05
09/01/2025	207587128		FOOD & CONSUMABLES FOR CHILDREN - MECPC	\$	702.05				
13/01/2025	3903.2625-01	Stewart & Heaton Clothing Co	UNIFORMS			\$		\$	183.68
23/12/2024	SIN-4008730		UNIFORMS - CHIDLOW VBFB	\$	183.68				
13/01/2025	3903.2641-01	St John Ambulance Western Australia	TRAINING			\$		\$	1,598.00
08/01/2025	FAINV01232160		FIRST AID TRAINING	\$	136.00				
08/01/2025	FAINV01245228		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01245229		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01244036		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01244574		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01248546		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01248547		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01231621		FIRST AID TRAINING	\$	170.00				
08/01/2025	FAINV01232161		FIRST AID TRAINING	\$	136.00				
08/01/2025	FAINV01232162		FIRST AID TRAINING	\$	136.00				
13/01/2025	3903.2769-01	Regenerated Landscapes	WEED SPRAYING			\$		\$	5,450.00
10/01/2025	52		SLASHING WORKS - R36410 MARRIOT RD BOYA	\$	625.00				
10/01/2025	53		SLASHING WORKS - R29795 MICHAEL CRT BOYA	\$	625.00				
10/01/2025	54		SLASHING WORKS - RES 25700 MARRIOT RD (PARK)	\$	950.00				
10/01/2025	56		SLASHING WORKS - R34359 CAMFIELD RD DARLINGTON	\$	600.00				
10/01/2025	57		SLASHING WORKS - R37654 PITTERSON RD DARLINGTON	\$	100.00				
10/01/2025	58		SLASHING WORKS - R29544 PITTERSON RD DARLINGTON	\$	150.00				
10/01/2025	50		SLASHING WORKS - R45312 KARDAN CLOSE MT HELENA	\$	500.00				
10/01/2025	59		SLASHING WORKS - R40690 AVONHOLME CIRCLE CHIDLOW	\$	1,900.00				
13/01/2025	3903.295-01	Coca Cola Europacific Partners	KIOSK SUPPLIES			\$		\$	1,418.91
13/01/2025	235703466		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE	\$	1,418.91				

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.10881-01	AlSCO Pty Ltd	SERVICING SANITARY & NAPPY UNITS			\$	1,855.18
07/01/2025	CPER2469695		FIRST AID REPLENISHMENT - BOYA COMMUNITY CENTRE	\$	31.85		
07/01/2025	CPER2469696		FIRST AID REPLENISHMENT - LAKE LESCHENAUTLIA	\$	158.68		
07/01/2025	CPER2469697		FIRST AID REPLENISHMENT - MUNDARING ARENA	\$	113.00		
07/01/2025	CPER2469694		FIRST AID REPLENISHMENT - AFM LIBRARY	\$	32.92		
07/01/2025	CPER2469693		FIRST AID REPLENISHMENT - ADMIN BUILDING	\$	399.41		
07/01/2025	CPER2469692		FIRST AID REPLENISHMENT - OPERATION CENTRE	\$	113.00		
15/01/2025	CPER2467708		SERVICING SANITARY & NAPPY UNITS	\$	1,006.32		
20/01/2025	3909.10921-01	Ixom Operations Pty Ltd	CHLORINE GAS SERVICE FEES			\$	5,652.68
13/01/2025	6907242		CHLORINE GAS SERVICE FEES	\$	225.92		
23/12/2024	6897138		CHLORINE GAS SERVICE FEES	\$	4,118.88		
07/01/2025	6903530		CHLORINE GAS SERVICE FEES	\$	1,307.88		
20/01/2025	3909.1111-01	Zipform Pty Ltd	RATES NOTICE PRODUCTION			\$	10,617.54
20/01/2025	222435		RATES NOTICE 3RD INSTALMENTS PRODUCTION 2024/2025	\$	10,617.54		
20/01/2025	3909.11311-01	Mastec Australia Pty Ltd (The Trust)	EQUIPMENT PURCHASES			\$	38,941.76
15/01/2025	INV19406		SUPPLY & DELIVER 832X 240L BINS & 320X ORGANICS BINS	\$	38,941.76		
20/01/2025	3909.11326-01	Learning Seat Pty Ltd	SUBSCRIPTION			\$	1,948.50
04/01/2025	6477029175		SUBSCRIPTION FEE FOR 28/12/2024 TO 27/01/2025	\$	1,948.50		
20/01/2025	3909.11672-01	Dulux Group Australia	PAINT			\$	878.84
06/01/2025	900691663		SUPPLY ASSORTED PAINTS & BRUSHES - PARK MAINTENANCE	\$	549.14		
20/12/2024	900546573		SUPPLY ASSORTED PAINTS - PARK MAINTENANCE	\$	329.70		
20/01/2025	3909.11678-01	Vorgee Pty Ltd	POOL SUPPLIES			\$	1,491.60
13/01/2025	00191202		BILGOMAN AQUATIC - GOGGLES & ACCESSORIES	\$	1,491.60		
20/01/2025	3909.11846-01	Swan Veterinary Hospital	VET FEES			\$	215.00
10/01/2025	956080		EUTHANISE & CREMATE LARGE 20-50KG DOG	\$	215.00		
20/01/2025	3909.11967-01	Trade West Industrial Supplies Pty	CONSUMABLES			\$	477.84
19/12/2024	S103896		SUPPLY LATEX FOAM GLOVES	\$	477.84		
20/01/2025	3909.12-01	Department of Human Services - Child	CHILD SUPPORT PAYMENT			\$	149.00
12/01/2025	PY02-15-CHILD SU		CHILD SUPPORT PAYMENT	\$	149.00		
20/01/2025	3909.12032-01	Feral Invasive Species Eradication	PEST CONTROL			\$	2,585.00
10/01/2025	1552		FOX CONTROL DIBBLE ST RESERVE DECEMBER 2024	\$	2,585.00		
20/01/2025	3909.12149-01	TenderLink.com	ADVERTISING			\$	380.60
10/12/2024	MUNDAR-663415		PUBLIC TENDER ADVERTISING	\$	190.30		
13/12/2024	MUNDAR-664266		PUBLIC TENDER ADVERTISING	\$	190.30		
20/01/2025	3909.12261-01	ONEMUSIC AUSTRALIA (Australasian)	MUSIC LICENCE			\$	1,851.19
07/01/2025	APAU-000011242		APRA MUSIC LICENCE FEE 01/01/2025 TO 31/03/2025	\$	1,851.19		
20/01/2025	3909.12304-01	Quilts By Robyn	VISITOR CENTRE STOCK			\$	150.00
17/01/2025	446		MUNDARING VISITOR CENTRE STOCK	\$	150.00		
20/01/2025	3909.12331-01	Supreme Shades	MAINTENANCE			\$	11,347.60
16/01/2025	00015435		INSTALL NEW M12 EYEBOLTS TO EXISTING POSTS & MANUFACTURE NEW SHADE SAILS	\$	11,347.60		
20/01/2025	3909.12402-01	Grace Information & Records Management	OFFSITE RECORDS STORAGE			\$	1,916.30
07/01/2025	RP01614899		OFFSITE RECORDS STORAGE	\$	1,916.30		
20/01/2025	3909.12454-01	Hills Windscreens	WINDSCREEN REPAIRS			\$	220.00
17/01/2025	1842		REPAIR WINDSCREEN CHIP ON 817MDG	\$	110.00		
17/01/2025	1843		REPAIR WINDSCREEN CHIP ON 041MDG	\$	110.00		
20/01/2025	3909.12579-01	Mr V Crowe	LANDSCAPE SERVICES			\$	1,068.00
14/01/2025	2487		LANDSCAPE SERVICES - SCFC CLAYTON VIEW	\$	492.00		
14/01/2025	2488		LANDSCAPE SERVICES - CPC MIDDLE SWAN	\$	288.00		
14/01/2025	2489		LANDSCAPE SERVICES - MECPC	\$	288.00		
20/01/2025	3909.12640-01	Officeworks Ltd	STATIONERY			\$	756.05
09/01/2025	618684700		SUPPLY D-LINK VOIP MODEM ROUTER - CHIDLOW VBFB	\$	277.00		
13/01/2025	618878471		STATIONERY ITEMS	\$	479.05		
20/01/2025	3909.12679-01	Roy Gripske & Sons Pty Ltd	PARTS			\$	775.70
08/01/2025	1392667		SUPPLY DIAMOND EDGE TRIMMER LINE	\$	775.70		
20/01/2025	3909.12751-01	Sprayline Spraying Equipment	PARTS			\$	59.40
17/01/2025	68238 / 1796-74		SUPPLY 2X HOSES & 2X NOZZLES	\$	59.40		
20/01/2025	3909.12771-01	AMPAC Debt Recovery (WA) Pty Ltd	DEBT RECOVERY SERVICES			\$	2,510.50
08/01/2025	114433		RATES DEBT RECOVERY SERVICES 2024/2025	\$	1,811.50		
20/01/2025	114916		RATES DEBT RECOVERY SERVICES 2024/2025	\$	699.00		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.12794-01	Mount Helena Hardware	PARTS			\$	1,331.61
10/12/2024	101153274		SUPPLY WILLOW WATER JUGS	\$	386.00		
23/12/2024	102036898		SUPPLY BLOW MOULD TABLES - SHIRE HALLS & PAVILIONS	\$	799.50		
12/12/2024	101153876		SUPPLY PARTS FOR PLAYGROUND MAINTENANCE	\$	28.00		
12/12/2024	101153249		SUPPLY PARTS FOR PLAYGROUND MAINTENANCE	\$	55.00		
13/01/2025	101157363		SUPPLY PARTS FOR PLAYGROUND MAINTENANCE	\$	23.19		
17/01/2025	101155000		SUPPLY PARTS FOR PLAYGROUND MAINTENANCE	\$	39.92		
20/01/2025	3909.12899-01	NAPA (A Division of GPC Asia Pacific	PARTS			\$	2,556.98
06/01/2025	1320419419		SUPPLY 6X LED RED/AMBER SIDE MARKERS FOR P312	\$	114.13		
06/01/2025	1320419447		SUPPLY HYDRAULIC FILTER CARTRIDGE & PARTS FOR P302	\$	92.73		
06/01/2025	1320419505		SUPPLY ASSORTED FILTERS FOR P285	\$	261.25		
08/01/2025	1320420257		SUPPLY AIR FILTERS & 24V BULBS FOR P741	\$	82.50		
13/01/2025	1320419497		SUPPLY HYDRAULIC FILTER CARTRIDGES FOR P285	\$	305.80		
13/01/2025	1320420290		SUPPLY ASSORTED FILTERS & PARTS FOR P747	\$	242.28		
13/01/2025	1320420387		SUPPLY OF WORKSHOP CONSUMABLES	\$	7.15		
13/01/2025	1320420670		SUPPLY PARTS FOR P2485	\$	97.24		
06/01/2025	1320419613		SUPPLY MIRROR HEAD FOR P675	\$	170.50		
06/01/2025	1320419581		SUPPLY 4WD FILTER KIT FOR P2430	\$	61.05		
06/01/2025	1320419495		SUPPLY HYDRAULIC FILTERS FOR P294	\$	235.40		
08/01/2025	1320419567		SUPPLY OF WORKSHOP CONSUMABLES	\$	23.38		
15/01/2025	1320421268		SUPPLY ASSORTED FILTERS FOR ASSORTED VEHICLES	\$	533.26		
15/01/2025	1320421320		SUPPLY DIESEL INTAKE CLEANER FOR P2500	\$	21.76		
14/01/2025	1320420951		SUPPLY LED WORKLIGHTS FOR P675	\$	308.55		
20/01/2025	3909.12951-01	Traffic Force	TRAFFIC MANAGEMENT SERVICES			\$	24,714.09
12/12/2024	00039113		TRAFFIC MANAGEMENT SERVICES - VERGE MOWING	\$	864.25		
22/12/2024	00039171		TRAFFIC MANAGEMENT SERVICES - TREE MAINTENANCE	\$	767.50		
22/12/2024	00039110		TRAFFIC MANAGEMENT SERVICES - TREE MAINTENANCE	\$	4,222.61		
22/12/2024	00039112		TRAFFIC MANAGEMENT SERVICES - ROAD MAINTENANCE	\$	4,760.03		
22/12/2024	00039172		TRAFFIC MANAGEMENT SERVICES - ROAD MAINTENANCE	\$	2,700.79		
14/01/2025	00038917		TRAFFIC MANAGEMENT SERVICES - ROAD MAINTENANCE	\$	2,573.02		
15/01/2025	00039111		TRAFFIC MANAGEMENT SERVICES - DRAINAGE MAINTENANCE	\$	5,221.19		
17/01/2025	00039219		TRAFFIC MANAGEMENT SERVICES - TREE MAINTENANCE	\$	1,065.97		
17/01/2025	00039220		TRAFFIC MANAGEMENT SERVICES - ROAD MAINTENANCE	\$	2,538.73		
20/01/2025	3909.12984-01	AJL Plumbing and Gas Pty Ltd (ATF T	PLUMBING SERVICES			\$	2,261.60
12/12/2024	AJL15498		PLUMBING SERVICES - ADMIN BUILDING TOILETS	\$	335.50		
12/12/2024	AJL15500		PLUMBING SERVICES - MORGAN JOHN MORGAN PUBLIC TOILETS	\$	852.50		
10/12/2024	AJL15509		PLUMBING SERVICES - DARLINGTON COMMUNITY PAVILION	\$	523.60		
10/12/2024	AJL15490		PLUMBING SERVICES - MUNDARING FIRE SCHOOL & STONEVILLE VBFB	\$	176.00		
24/12/2024	AJL15581		PLUMBING SERVICES - PARKERVILLE OVAL PAVILION	\$	374.00		
20/01/2025	3909.13-01	Shire of Mundaring	PAYROLL DEDUCTION			\$	13,259.65
12/01/2025	PY02-15-Buy Addi		PAYROLL DEDUCTION	\$	997.65		
12/01/2025	PY01-15-Private		PAYROLL DEDUCTION	\$	1,050.00		
12/01/2025	PY01-15-Buy Addi		PAYROLL DEDUCTION	\$	1,050.01		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	5,939.00		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	1,883.83		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	177.76		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	209.30		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	1,357.50		
12/01/2025	PY01-15-Novated		PAYROLL DEDUCTION	\$	594.60		
20/01/2025	3909.13053-01	Perth Elevators (Perth Building	MAINTENANCE			\$	550.00
20/01/2025	344		QUARTERLY MAINTENANCE INSPECTION - MUNDARING ARENA LIFT	\$	550.00		
20/01/2025	3909.13268-01	Department of Human Services - The	PAYROLL DEDUCTION			\$	53.23
12/01/2025	PY01-15-Centrel		PAYROLL DEDUCTION	\$	53.23		
20/01/2025	3909.13580-01	Western Australian Birds of Prey Centre	PROFESSIONAL SERVICES			\$	370.00
15/01/2025	INV-0482		BIRDS OF PREY EXPERIENCE - SCHOOL HOLIDAY PROGRAM	\$	370.00		
20/01/2025	3909.13691-01	ID Warehouse (Brady Australia Pty Ltd	STATIONERY			\$	104.50
14/01/2025	9357973317		SUPPLY PRESS SEAL CARD HOLDERS	\$	104.50		
20/01/2025	3909.13715-01	Ensign (Ensign Services (Aust.) Pty	SAFETY EQUIPMENT			\$	397.60
13/01/2025	6348133		SAFETY MATS & TEA TOWELS	\$	397.60		
20/01/2025	3909.138-01	Sonic HealthPlus Pty Ltd	MEDICAL EXAMINATION			\$	785.40
07/01/2025	3473324		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80		
13/01/2025	3484506		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80		
08/01/2025	3480571		PRE-EMPLOYMENT MEDICAL EXAMINATION	\$	261.80		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.14013-01	Eastern Hills Chainsaws & Mowers Pty	PARTS						
06/01/2025	52986 #5		SUPPLY 10L HP 2 STROKE OIL	\$	149.40	\$	1,428.60		
17/01/2025	52931 #5		SUPPLY MS 261 CHAINSAW FOR TREE MAINTENANCE	\$	1,279.20				
20/01/2025	3909.14016-01	Western Educating Service (Western Maze)	HIRE OF PLANT			\$	12,748.02		
17/01/2025	2090		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,696.51				
17/01/2025	2091		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,744.97				
17/01/2025	2092		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,696.51				
17/01/2025	2088		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,793.45				
17/01/2025	2100		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,744.97				
17/01/2025	2105		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,211.79				
17/01/2025	2087		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,066.37				
17/01/2025	2089		DRAIN EDUCTING/JETTING AT VARIOUS LOCATIONS	\$	1,793.45				
20/01/2025	3909.14109-01	Red Dot Stores (The C C C B)	CONSUMABLES			\$	135.48		
14/01/2025	20023360		CONSUMABLES - MECPC	\$	135.48				
20/01/2025	3909.14188-01	Complete Office Supplies Pty Ltd	STATIONERY			\$	475.20		
08/01/2025	13694296		STATIONERY ITEMS	\$	22.31				
08/01/2025	13692060		STATIONERY ITEMS	\$	415.80				
10/01/2025	13719733		STATIONERY ITEMS	\$	37.09				
20/01/2025	3909.14324-01	Proarb WA (R Hawkins & C.N Jones T/	STREET TREE MAINTENANCE			\$	20,570.00		
17/01/2025	2177		STREET TREE MAINTENANCE - VARIOUS LOCATIONS	\$	9,526.00				
17/01/2025	2183		STREET TREE MAINTENANCE - VARIOUS LOCATIONS	\$	11,044.00				
20/01/2025	3909.14435-01	Lou's Kitchen (Knights, Louisa Jayne	CATERING			\$	4,665.75		
16/01/2025	INV-0431		CATERING - COMMUNICATIONS WORKSHOP WITH COUNCILLORS	\$	357.00				
14/01/2025	INV-0432		CATERING - AUSTRALIA DAY 2025 CEREMONY	\$	4,308.75				
20/01/2025	3909.14496-01	Tyrepower Mundaring (The Trustee for	TYRES & REPAIRS			\$	1,448.00		
06/01/2025	124343		REPAIR TYRE ON 071MDG	\$	45.00				
15/01/2025	122392		REPAIR TYRE ON 052MDG	\$	35.00				
10/01/2025	124337		SUPPLY & FIT 2X NEW TYRES ON P675	\$	1,368.00				
20/01/2025	3909.14505-01	1300Tempfence (Ready Industries Pty	EQUIPMENT HIRE			\$	1,183.60		
10/12/2024	757988		HIRE SITE CAMERAS - ELSIE AUSTIN OVAL CHANGEROOMS	\$	1,183.60				
20/01/2025	3909.14514-01	Euro Diesel Services (Antrim Global	PARTS			\$	1,825.63		
15/12/2024	00016186		SUPPLY & DELIVER BELT TENSIONER & V-BELTS FOR P182	\$	1,825.63				
20/01/2025	3909.14558-01	Tool Kit Depot (Bunnings Group Limi	TOOLS			\$	102.88		
10/12/2024	13-03-00007544		SUPPLY DYMARK DISPENSER PAINT MARKING LONG HANDLE	\$	102.88				
20/01/2025	3909.14584-01	Fit2work.com.au (Equifax Australasia	CRIMINAL CHECK SERVICES			\$	66.00		
13/01/2025	15716467		CRIMINAL CHECK SERVICES FOR VFBF	\$	66.00				
20/01/2025	3909.14864-01	Total Exhaust Cleaning Contractors	CLEANING SERVICES			\$	1,342.00		
13/01/2025	2024/25 - 4332		DEEP CLEAN WALLS, CEILING, EXHAUST & OVEN - MUNDARING ARENA	\$	1,342.00				
20/01/2025	3909.150-01	Fulton Hogan Industries Pty Ltd	ASPHALT			\$	1,144.00		
22/12/2024	19847038		SUPPLY EMULSION	\$	429.00				
24/12/2024	19847039		SUPPLY EMULSION	\$	715.00				
20/01/2025	3909.15009-01	Hoseforce Pty Ltd	PARTS			\$	2,367.04		
08/01/2025	584432		SUPPLY HOSES & SPARE PARTS FOR WORKSHOP	\$	1,568.48				
06/01/2025	584311		SUPPLY HOSES & SPARE PARTS FOR WORKSHOP	\$	94.31				
22/12/2024	584005		SUPPLY HOSES & SPARE PARTS FOR WORKSHOP	\$	563.64				
22/12/2024	584110		SUPPLY HOSES & SPARE PARTS FOR WORKSHOP	\$	140.61				
20/01/2025	3909.15126-01	Cromag Pty Ltd T/A Sigma Chemicals	CHEMICALS			\$	4,834.22		
23/12/2024	187340/01		POOL CHEMICALS - BILGOMAN AQUATIC CENTRE	\$	3,237.24				
23/12/2024	563237		POOL CHEMICALS - MT HELENA AQUATIC CENTRE	\$	1,255.98				
23/12/2024	187341/01		POOL CHEMICALS - MT HELENA AQUATIC CENTRE	\$	341.00				
20/01/2025	3909.15142-01	Omnicom Media Group Australia Pty L	ADVERTISING			\$	2,950.00		
07/01/2025	1806725		ADVERTISING	\$	636.69				
07/01/2025	1806724		ADVERTISING	\$	560.00				
06/01/2025	1806727		ADVERTISING	\$	870.49				
06/01/2025	1806726		ADVERTISING	\$	882.82				
20/01/2025	3909.15170-01	Twistech Pty Ltd	FENCING			\$	1,276.00		
14/01/2025	INV-0516		REPAIR DAMAGED FENCING - COPPIN RD TRANSFER STATION	\$	308.00				
14/01/2025	INV-0517		REPAIR DAMAGED FENCING - MATHIESON RD TRANSFER STATION	\$	308.00				
15/01/2025	INV-0519		REPAIR DAMAGED FENCING - COPPIN RD TRANSFER STATION	\$	352.00				
17/01/2025	INV-0524		REPAIR DAMAGED FENCING - COPPIN RD TRANSFER STATION	\$	308.00				
20/01/2025	3909.1521-01	Dial A Nappy & Busiclean	GOODS			\$	1,465.20		
13/01/2025	INV-18586		CLEANING CHEMICALS FOR MECPC	\$	1,465.20				

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.15225-01	Rudd Industrial (Synergy Business	PARTS						
06/01/2025	3111592		SUPPLY HEX BOLT & WASHERS FOR P312	\$	0.67	\$	0.67		
20/01/2025	3909.15277-01	Instant Waste Management (Kelair	RECYCLING						
13/01/2025	5027309		CARDBOARD RECYCLING - GREAT EASTERN HWY/LIONEL RD DARLINGTON	\$	118.80	\$	118.80		
13/01/2025	5027310		CARDBOARD RECYCLING - MUNDARING WEIR RD MUNDARING	\$	107.80	\$	107.80		
13/01/2025	5027311		CARDBOARD RECYCLING - DARKAN ST MUNDARING	\$	107.80	\$	107.80		
20/01/2025	3909.15457-01	The Local Government Racing &	PAYROLL DEDUCTION						
12/01/2025	PY01-15-LGRCEU		PAYROLL DEDUCTION	\$	22.00	\$	22.00		
20/01/2025	3909.15544-01	Filters Plus WA (Filterco Pty Ltd T	PARTS						
06/01/2025	0000230897-D02		SUPPLY CABIN AIR FILTERS FOR P747	\$	165.00	\$	165.00		
20/01/2025	3909.15579-01	Westbooks (J.D Caffey & Caffey Family	BOOKS						
16/01/2025	345821		BOOK STOCK - KSP LIBRARY	\$	104.96	\$	104.96		
16/01/2025	345824		BOOK STOCK - KSP LIBRARY	\$	104.23	\$	104.23		
16/01/2025	345823		BOOK STOCK - KSP LIBRARY	\$	76.26	\$	76.26		
16/01/2025	345820		BOOK STOCK - KSP LIBRARY	\$	30.09	\$	30.09		
17/01/2025	345822		BOOK STOCK - KSP LIBRARY	\$	179.81	\$	179.81		
20/01/2025	3909.15589-01	Perth Plumbers WA (The Trustee for	PLUMBING						
17/01/2025	13358		PLUMBING SERVICES - DOG PARK BALFOUR RD SWAN VIEW	\$	3,855.00	\$	3,855.00		
16/01/2025	13357		PLUMBING SERVICES - HARRY RISEBOROUGH OVAL	\$	1,210.00	\$	1,210.00		
20/01/2025	3909.15606-01	Perth Bin Hire (IWM (PBH) Pty Ltd T	BULK BIN HIRE						
09/01/2025	9065786		SUPPLY 8M SKIP BIN FOR DEPOT CLEAN UP	\$	636.90	\$	636.90		
20/01/2025	3909.15650-01	Mrs M L Kember-Imrie	CONSULTANCY SERVICES						
17/01/2025	0125-001		WEBSITE CONSULTANCY SERVICES - JANUARY 2025	\$	1,375.00	\$	1,375.00		
20/01/2025	3909.15754-01	McLeods Lawyers Pty Ltd	LEGAL MATTER						
13/01/2025	143087		LEGAL MATTER 44780 - STRUCTURE PLAN 34 NORTH STONEVILLE	\$	6,017.88	\$	6,017.88		
13/01/2025	143032		LEGAL MATTER 53869 - ADVICE RESPONDING TO SUBPOENA	\$	414.26	\$	414.26		
20/01/2025	3909.15774-01	The Resources Hub (Emerge Safe Pty	TEMP STAFF						
17/01/2025	INV-2841		TEMP STAFF - PLANT MECHANIC	\$	3,706.44	\$	3,706.44		
17/01/2025	INV-2842		TEMP STAFF - PLANT MECHANIC	\$	3,706.44	\$	3,706.44		
20/01/2025	3909.15781-01	Programmed Skilled Workforce Limited	TEMP STAFF						
13/01/2025	4948866		TEMP STAFF - COMMUNITY EVENTS OFFICER	\$	353.50	\$	353.50		
07/01/2025	4943515		TEMP STAFF - GRANTS OFFICER	\$	553.17	\$	553.17		
07/01/2025	4943514		TEMP STAFF - COMMUNITY EVENTS OFFICER	\$	800.27	\$	800.27		
20/01/2025	3909.15802-01	Living Turf (Greenshed Pty Limited	MAINTENANCE						
06/01/2025	153606/01		SITE INSPECTION, INFILTRATION TESTING & REPORT SAWYERS VALLEY	\$	1,017.50	\$	1,017.50		
20/01/2025	3909.15836-01	Hidrive Group Pty Ltd	PARTS						
06/01/2025	243866/01		SUPPLY 2X FOLD DOWN VICE HOLDERS WITH VICES P2505	\$	1,220.05	\$	1,220.05		
20/01/2025	3909.15861-01	RTV Computers Pty Ltd	IT HARDWARE						
10/12/2024	220818		SUPPLY 1X HP PROBOOK & 1X HP USB-C DOCK	\$	1,628.00	\$	1,628.00		
13/12/2024	221001		SUPPLY 2X HP E24 LED MONITORS	\$	418.00	\$	418.00		
20/01/2025	3909.15862-01	Comex Civil Pty Ltd	EARTHWORKS						
14/01/2025	INV-0419		DRAINAGE WORKS - ELMORE ST/EVANS ST	\$	76,498.29	\$	76,498.29		
17/01/2025	INV-0421		DRAINAGE WORKS - ELMORE ST/EVANS ST	\$	4,026.22	\$	4,026.22		
20/01/2025	3909.15879-01	Bare Foot Entertainment and Events	ENTERTAINMENT						
17/01/2025	INV-6832		MOVIE IN THE PARK - SUMMER OF ENTERTAINMENT	\$	18,111.95	\$	18,111.95		
20/01/2025	3909.15919-01	Tassie Devil Linemarking (Ben's	LINEMARKING						
17/01/2025	INV-0020		LINEMARKING - MUNDARING HALL & SWAN VIEW PLAYGROUP	\$	869.00	\$	869.00		
20/01/2025	3909.15929-01	Supreme Shades (Belgrade Holdings P	MAINTENANCE						
14/01/2025	00000071		REMOVE SAIL REPLACE EYEBOLT & REINSTALL - BROZ PARK	\$	368.50	\$	368.50		
20/01/2025	3909.15934-01	Chemwest Pty Ltd	CLEANING SUPPLIES						
20/01/2025	INV-01630		SUPPLY 2X 20 LITRE BITUKLEEN FOR P2488	\$	393.69	\$	393.69		
20/01/2025	3909.15942-01	Punchy Digital Media Pty Ltd	DESIGN FEES/COSTS						
13/01/2025	INV-3484		DEVELOP ANIMATED VIDEO TO PROMOTE COUNCIL PLAN	\$	4,334.00	\$	4,334.00		
20/01/2025	3909.1644-01	Woolworths Group Limited	FOOD & CONSUMABLES						
14/01/2025	TI-040D7-178D55		FOOD & CONSUMABLES FOR CHILDREN - MIDVALE HUB	\$	132.36	\$	132.36		
10/01/2025	TI-040D7-178D54		FOOD & CONSUMABLES FOR CHILDREN - MECPC	\$	62.50	\$	62.50		
17/01/2025	TI-040D7-178D56		FOOD & CONSUMABLES FOR CHILDREN - CPC MIDDLE SWAN	\$	24.60	\$	24.60		
20/01/2025	3909.1689-01	Compsys Pty Ltd T/A Harmony Software	SUBSCRIPTION						
15/01/2025	3-64246		SOFTWARE SUBSCRIPTION - DECEMBER 2024	\$	825.00	\$	825.00		
20/01/2025	3909.1884-01	Agparts Warehouse Pty Ltd	PARTS						
20/01/2025	296218		SUPPLY PARTS FOR P2513	\$	99.00	\$	99.00		
13/01/2025	296069		SUPPLY PARTS FOR P2512	\$	336.49	\$	336.49		

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.388-01	Bunzl Ltd	CLEANING SUPPLIES				\$	3,949.24
10/12/2024	Y483094		PAPER PRODUCTS - DEPOT	\$	2,057.13			
12/12/2024	Y492887		PAPER PRODUCTS - DEPOT	\$	879.01			
06/01/2025	Y516630		PAPER PRODUCTS - DEPOT	\$	1,013.10			
20/01/2025	3909.394-01	Martins Trailer Parts	PARTS			\$		28.94
06/01/2025	1482565		SUPPLY PARTS FOR P312	\$	28.94			
20/01/2025	3909.396-01	Modern Teaching Aids Pty Ltd	CONSUMABLES			\$		74.75
17/01/2025	46236095		RESOURCES FOR ROOMS - MECPC	\$	74.75			
20/01/2025	3909.397-01	J. Blackwood & Son Pty Ltd	PARTS			\$		203.12
06/01/2025	SI0993500		SUPPLY 6X INDOOR BROOMS	\$	77.28			
06/01/2025	SI10008194		SUPPLY 10 DUSTPAN SETS & 10 YELLOW STAR PICKET CAPS	\$	125.84			
20/01/2025	3909.4-01	Health Insurance Fund of WA	PAYROLL DEDUCTION			\$		496.75
12/01/2025	PY01-15-HIF		PAYROLL DEDUCTION	\$	496.75			
20/01/2025	3909.4453-01	Technifire 2000	PARTS			\$		533.46
14/01/2025	25575		SUPPLY PARTS FOR P675	\$	533.46			
20/01/2025	3909.4592-01	ELAN Energy Matrix Pty Ltd T/A Tyre	TYRES & REPAIRS			\$		884.71
08/01/2025	046056		COLLECTION OF USED TYRES FROM OPERATIONS CENTRE	\$	884.71			
20/01/2025	3909.4749-01	Pure Air Filters	PARTS			\$		344.30
10/12/2024	00015578		SUPPLY AIR FILTERS FOR ASSORTED VEHICLES	\$	195.80			
06/01/2025	00015603		SUPPLY AIR FILTERS FOR ASSORTED VEHICLES	\$	148.50			
20/01/2025	3909.480-01	Echo Newspaper	ADVERTISING			\$		3,323.67
15/12/2024	00038868		ADVERTISING	\$	715.00			
24/12/2024	00038934		ADVERTISING	\$	408.67			
24/12/2024	00038931		ADVERTISING	\$	990.00			
13/12/2024	00038866		ADVERTISING	\$	1,210.00			
20/01/2025	3909.4845-01	Seek Limited	ADVERTISING			\$		759.00
13/01/2025	700965893		ADVERTISING	\$	759.00			
20/01/2025	3909.5483-01	UES Intl Pty Ltd	PARTS			\$		501.78
06/01/2025	504785		SUPPLY PARTS FOR P734	\$	501.78			
20/01/2025	3909.5558-01	Global Workwear Investments Pty Ltd	WORK CLOTHES			\$		2,837.37
06/01/2025	MD47673.D1		WORK CLOTHES - DEPOT STAFF	\$	130.45			
19/12/2024	MD148358		WORK CLOTHES & BOOTS - ENVIRONMENTAL HEALTH OFFICER	\$	256.41			
12/12/2024	MD47488.D1		WORK CLOTHES & BOOTS - DEPOT STAFF	\$	646.68			
22/12/2024	MD47610.D2		WORK CLOTHES - DEPOT STAFF	\$	116.43			
22/12/2024	MD47610.D1		WORK CLOTHES - DEPOT STAFF	\$	175.35			
10/12/2024	MD47452.D1		WORK CLOTHES - DEPOT STAFF	\$	1,013.66			
13/01/2025	MD47487.D2		WORK CLOTHES - DEPOT STAFF	\$	58.45			
12/12/2024	MD47490.D1		WORK CLOTHES - DEPOT STAFF	\$	439.94			
20/01/2025	3909.5719-01	Shire of Mundaring - Lotto Club	PAYROLL DEDUCTION			\$		271.60
12/01/2025	PY01-15-STAFF LO		PAYROLL DEDUCTION	\$	258.02			
12/01/2025	PY02-15-STAFF LO		PAYROLL DEDUCTION	\$	13.58			
20/01/2025	3909.5945-01	West Coast Spring Water Pty Ltd	WATER BOTTLES			\$		32.49
14/01/2025	3596703		WATER BOTTLES FOR DEPOT	\$	32.49			
20/01/2025	3909.6-01	Shire of Mundaring - Social Club	PAYROLL DEDUCTION			\$		240.00
12/01/2025	PY01-15-MUNDARIN		PAYROLL DEDUCTION	\$	240.00			
20/01/2025	3909.6050-01	Fuel Distributors of Western Australia	FUEL & OILS			\$		9,401.81
13/12/2024	00611310		SUPPLY ASSORTED OILS & GREASES	\$	7,802.81			
13/12/2024	00611302		SUPPLY 1X ECOBLUE 1000L IBC	\$	1,599.00			
20/01/2025	3909.6282-01	Strata Corporation Pty Ltd T/A	PARTS			\$		587.24
22/12/2024	171029		SUPPLY & DELIVER 50X HARDWOOD TREE STAKES	\$	587.24			
20/01/2025	3909.68-01	The Watershed Water Systems	RETICULATION PARTS			\$		2,357.14
16/01/2025	10258690		RETICULATION PARTS	\$	1,073.88			
16/01/2025	10258691		RETICULATION PARTS	\$	1,174.44			
16/01/2025	10258740		RETICULATION PARTS	\$	80.67			
16/01/2025	10258741		RETICULATION PARTS	\$	28.15			
20/01/2025	3909.7-01	Australian Services Union	PAYROLL DEDUCTION			\$		253.00
12/01/2025	PY01-15-AUSTRALI		PAYROLL DEDUCTION	\$	147.00			
12/01/2025	PY02-15-AUSTRALI		PAYROLL DEDUCTION	\$	106.00			
20/01/2025	3909.7053-01	Darlington Review	SUBSCRIPTION			\$		405.00
17/01/2025	3513		ANNUAL SUBSCRIPTION 2025 - THE HUB OF THE HILLS	\$	140.00			
20/01/2025	3514		ANNUAL SUBSCRIPTION 2025 - KSP LIBRARY & AFM LIBRARY	\$	265.00			
20/01/2025	3909.709-01	Mundaring & Hills Historical Society	GRANT			\$		18,304.00
15/01/2025	1117		QUARTERLY FUNDING JANUARY TO MARCH 2025	\$	18,304.00			

MONTHLY LIST OF PAYMENTS
JANUARY 2025

20/01/2025	3909.7519-01	Moore Australia (WA) Pty Ltd	TRAINING					
15/01/2025	4549		REGISTRATION TAX FBT & BUDGET WORKSHOPS 2025 ACCOUNTANT	\$	2,475.00	\$	2,475.00	
20/01/2025	3909.7590-01	PFD Food Services Pty Ltd	KIOSK SUPPLIES			\$	3,741.40	
17/01/2025	LO534355		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE	\$	3,364.80			
17/01/2025	LO531810		KIOSK SUPPLIES - MT HELENA AQUATIC CENTRE	\$	376.60			
20/01/2025	3909.7641-01	Easifleet	NOVATED LEASE			\$	10,888.90	
14/01/2025	216466		NOVATED LEASE - JANUARY 2025	\$	10,888.90			
20/01/2025	3909.793-01	The Katharine Susannah Prichard	GRANT			\$	23,155.00	
10/01/2025	121105		QUARTERLY GRANT FUNDING - JANUARY TO MARCH 2025	\$	23,155.00			
20/01/2025	3909.80-01	Bunnings Group Limited	HARDWARE			\$	2,140.04	
08/01/2025	2440/01104956		HARDWARE ITEMS	\$	169.56			
14/01/2025	2440/01115546		HARDWARE ITEMS	\$	44.77			
09/01/2025	2440/00892666		HARDWARE ITEMS	\$	42.66			
08/01/2025	2440/00277330		HARDWARE ITEMS	\$	73.63			
13/01/2025	2440/00894258		HARDWARE ITEMS	\$	20.94			
13/01/2025	2440/01223407		HARDWARE ITEMS	\$	536.91			
13/01/2025	2440/01115535		HARDWARE ITEMS	\$	91.28			
13/01/2025	2440/01115534		HARDWARE ITEMS	\$	65.52			
13/01/2025	2440/01115538		HARDWARE ITEMS	\$	69.27			
13/01/2025	2440/01115540		HARDWARE ITEMS	\$	42.44			
13/01/2025	2440/01115541		HARDWARE ITEMS	\$	233.40			
13/01/2025	2440/01012444		HARDWARE ITEMS	\$	135.95			
13/01/2025	2440/00717137		HARDWARE ITEMS	\$	42.36			
13/01/2025	2440/01003934		HARDWARE ITEMS	\$	373.35			
13/01/2025	2440/01012442		HARDWARE ITEMS	\$	198.00			
20/01/2025	3909.810-01	The Royal Life Saving Society Western	POOL SUPPLIES			\$	1,503.70	
17/01/2025	RLSSWA INV2600		SUPPLY STAFF POLO SHIRTS & SAFETY/RESCUE EQUIPMENT	\$	1,503.70			
20/01/2025	3909.8275-01	E Fire & Safety	SAFETY EQUIPMENT			\$	126.50	
13/01/2025	624959		REPLACE 4.5KG FIRE EXTINGUISHERS FOR MT HELENA OVAL PAVILION	\$	126.50			
20/01/2025	3909.8611-01	Brownes Foods Operations Pty Ltd	KIOSK SUPPLIES			\$	484.04	
17/01/2025	18213910		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE	\$	225.32			
13/01/2025	18203365		KIOSK SUPPLIES - BILGOMAN AQUATIC CENTRE	\$	258.72			
20/01/2025	3909.8976-01	Kool Line Electrical & Refrigeration	ELECTRICAL SERVICES			\$	2,370.50	
20/01/2025	00128619		ELECTRICAL SERVICES - LAKE LESCHENAULTIA	\$	2,057.00			
20/01/2025	00128618		ELECTRICAL SERVICES - LAKE LESCHENAULTIA	\$	313.50			
20/01/2025	3909.938-01	West Australian Newspapers Ltd	SUBSCRIPTIONS			\$	209.99	
08/01/2025	02172005		NEWSPAPER SUBSCRIPTIONS - MUNDARING SHIRE ADMIN	\$	209.99			
20/01/2025	3909.9512-01	Australian Grown	EQUIPMENT PURCHASES			\$	411.40	
24/12/2024	SI48435		SUPPLY & DELIVER 10 MUNDARING ARENA LOGO TOWELS	\$	411.40			
20/01/2025	3909.9596-01	Brice Pest Management	PEST CONTROL			\$	176.00	
14/01/2025	IV05975		BEE TREATMENT - WELL LOOP CHIDLOW	\$	176.00			
20/01/2025	3909.9769-01	Japanese Truck & Bus Spares	PARTS			\$	3,193.20	
17/01/2025	563294		SUPPLY MULTIMEDIA HEAD UNIT FOR P2469	\$	2,735.95			
08/01/2025	565740		SUPPLY ASSORTED PARTS FOR P705	\$	457.25			
20/01/2025	3909.9935-01	All Fence U Rent Pty Ltd	TEMP FENCING			\$	1,040.05	
13/01/2025	003701		TEMP FENCING WITH SCREENS - CHRISTMAS FUNCTION ADMIN STAFF	\$	1,040.05			
22/01/2025	3910.3462-01	Care Giver Subsidies	CARE GIVER SUBSIDIES			\$	32,062.77	
22/01/2025	220125		CARE GIVER SUBSIDIES	\$	32,062.77			
23/01/2025	3911.15963-01	Mrs G M Wilson	REFUND			\$	450.00	
23/01/2025	REFUND		RATES REFUND	\$	450.00			
23/01/2025	3911.15964-01	Ms C R Garrett	REFUND			\$	50.00	
23/01/2025	REFUND		RATES REFUND	\$	50.00			
28/01/2025	3912.34-01	Water Corporation	WATER RATES & FEES			\$	10,932.60	
24/01/2025	9004639478		WATER RATES & FEES	\$	2,983.95			
24/01/2025	9004697117		WATER RATES & FEES	\$	4,679.70			
24/01/2025	9023574999		WATER RATES & FEES	\$	54.15			
24/01/2025	9004694442		WATER RATES & FEES	\$	99.75			
24/01/2025	9004697539		WATER RATES & FEES	\$	219.45			
24/01/2025	9015437724		WATER RATES & FEES	\$	2,895.60			
28/01/2025	3913.13585-01	Mr M K Anthes	REIMBURSEMENT			\$	34.99	
24/01/2025	REIMBURSEMENT		REIMBURSEMENT - STRAW HAT EXPENSES	\$	34.99			
28/01/2025	3913.174-01	Synergy	ELECTRICITY			\$	728.94	
22/01/2025	6172559523		ELECTRICITY	\$	728.94			

MONTHLY LIST OF PAYMENTS
JANUARY 2025

28/01/2025	3914.15579-01	Westbooks (J.D Caffey & Caffey Family)	BOOKS				\$	2,913.49
24/01/2025	346009		BOOK STOCK - AFM LIBRARY	\$	518.97			
24/01/2025	346010		BOOK STOCK - AFM LIBRARY	\$	708.85			
24/01/2025	346000		BOOK STOCK - AFM LIBRARY	\$	82.57			
24/01/2025	346002		BOOK STOCK - AFM LIBRARY	\$	38.50			
24/01/2025	346001		BOOK STOCK - AFM LIBRARY	\$	45.48			
22/01/2025	346005		BOOK STOCK - KSP LIBRARY	\$	34.99			
22/01/2025	346006		BOOK STOCK - KSP LIBRARY	\$	38.48			
22/01/2025	346008		BOOK STOCK - KSP LIBRARY	\$	49.00			
22/01/2025	346003		BOOK STOCK - KSP LIBRARY	\$	701.53			
22/01/2025	346004		BOOK STOCK - KSP LIBRARY	\$	695.12			
28/01/2025	3914.15620-01	Mr S R Lindsay	FURNITURE			\$	2,540.00	\$ 2,540.00
24/01/2025	75		SUPPLY 2X SINGLE SWAN VIEW BOLT DOWN FRAME SEATS	\$	2,540.00			
28/01/2025	3914.15754-01	McLeods Lawyers Pty Ltd	LEGAL MATTER			\$	2,553.43	\$ 2,553.43
21/01/2025	142459		LEGAL MATTER 51986 - DR 191/2023 REDGUM AVE BELLEVUE	\$	2,553.43			
28/01/2025	3914.15909-01	Mr N Hara	PROFESSIONAL SERVICES			\$	400.00	\$ 400.00
24/01/2025	383		AUSLAN WORKSHOP - LIBRARY SCHOOL HOLIDAY PROGRAM	\$	400.00			
28/01/2025	3914.21-01	Eastern Metropolitan Regional Council	TRANSFER STATION FEES			\$	184,514.42	\$ 184,514.42
24/01/2025	EMRC61847		TRANSFER STATION FEES	\$	166,205.17			
24/01/2025	EMRC61848		TRANSFER STATION FEES	\$	18,309.25			
28/01/2025	3914.223-01	Jason Signmakers	SIGNS			\$	757.68	\$ 757.68
22/01/2025	42545		SUPPLY 80X BRACKETS WITH BOLTS, NUTS & WASHERS	\$	757.68			
28/01/2025	3914.234-01	Coles Supermarkets Australia Pty Ltd	FOOD & CONSUMABLES			\$	1,085.82	\$ 1,085.82
21/01/2025	209924011		FOOD & CONSUMABLES FOR CHILDREN - MECPC	\$	1,085.82			
28/01/2025	3914.2714-01	Executive Media Pty Ltd	ADVERTISING			\$	850.00	\$ 850.00
24/01/2025	165373		ADVERTISEMENT - CARAVANNING AUSTRALIA AUTUMN 2025	\$	850.00			
28/01/2025	3914.3088-01	Local Government Professionals	TRAINING			\$	130.00	\$ 130.00
24/01/2025	41854		MICROSOFT EXCEL WORKSHOP - LIBRARY STAFF	\$	65.00			
24/01/2025	41857		MICROSOFT EXCEL WORKSHOP - LIBRARY STAFF	\$	65.00			
28/01/2025	3914.381-01	Mundaring Electrical Contracting Service	ELECTRICAL SERVICES			\$	396.00	\$ 396.00
24/01/2025	7693		ELECTRICAL SERVICES - SHIRE DEPOT	\$	198.00			
24/01/2025	7692		ELECTRICAL SERVICES - MUNDARING LIBRARY	\$	198.00			
28/01/2025	3914.4845-01	Seek Limited	ADVERTISING			\$	434.50	\$ 434.50
22/01/2025	700981631		ADVERTISING	\$	434.50			
28/01/2025	3914.5558-01	Global Workwear Investments Pty Ltd	WORK CLOTHES			\$	121.41	\$ 121.41
24/01/2025	MD47487.D1		WORK CLOTHES - DEPOT STAFF	\$	121.41			
28/01/2025	3914.6344-01	Integral Development Associates Pty	TRAINING			\$	5,544.00	\$ 5,544.00
24/01/2025	INV-5590		TEAM DEVELOPMENT TRAINING - CPC MIDDLE SWAN	\$	5,544.00			
28/01/2025	3914.6423-01	Australian Training Management Pty	TRAINING			\$	2,200.00	\$ 2,200.00
22/01/2025	33655		FIRST AID TRAINING - 10X DEPOT STAFF ON 12/12/2024	\$	2,200.00			
28/01/2025	3914.6732-01	Relationships Australia Western	EMPLOYEE ASSISTANCE PROGRAM			\$	396.00	\$ 396.00
22/01/2025	00451444		EMPLOYEE ASSISTANCE PROGRAM	\$	198.00			
22/01/2025	00451346		EMPLOYEE ASSISTANCE PROGRAM	\$	198.00			
28/01/2025	3914.7716-01	Scott Printers Pty Ltd	PRINTING			\$	1,764.40	\$ 1,764.40
23/01/2025	187514		PRINT 50 COPIES OF 2023/2024 ANNUAL REPORT	\$	1,764.40			
28/01/2025	3914.8275-01	E Fire & Safety	MAINTENANCE			\$	3,590.40	\$ 3,590.40
22/01/2025	624964		SERVICING OF FIRE EQUIPMENT - VARIOUS LOCATIONS	\$	3,590.40			
28/01/2025	3914.8545-01	Sankey Plumbing Service	PLUMBING			\$	4,290.00	\$ 4,290.00
21/01/2025	6259		PLUMBING SERVICES - ROSEDALE RD WATER TANK	\$	2,145.00			
21/01/2025	6260		PLUMBING SERVICES - ASH RD CHIDLOW WATER TANK	\$	2,145.00			
28/01/2025	3914.8976-01	Kool Line Electrical & Refrigeration	ELECTRICAL SERVICES			\$	23,650.00	\$ 23,650.00
21/01/2025	00128603		ELECTRICAL SERVICES - STONEVILLE FIRE FIGHTING SCHOOL	\$	1,248.50			
21/01/2025	00128602		ELECTRICAL SERVICES - BROWN PARK COMMUNITY CENTRE	\$	203.50			
21/01/2025	00128621		ELECTRICAL SERVICES - MT HELENA AQUATIC CENTRE	\$	22,198.00			
29/01/2025	3915.3462-01	Care Giver Subsidies	CARE GIVER SUBSIDIES			\$	34,626.68	\$ 34,626.68
30/01/2025	290125		CARE GIVER SUBSIDIES	\$	34,626.68			
30/01/2025	3916.12516-01	PayClear Services Pty Ltd (Superchoice)	SUPERANNUATION JANUARY 2025			\$	263,758.00	\$ 263,758.00
30/01/2025	Jan2025-47		SUPERANNUATION JANUARY 2025	\$	263,758.00			
Total Electronic Funds Transfers From Municipal Account						\$	3,049,745.18	\$ 3,049,745.18

MONTHLY LIST OF PAYMENTS
JANUARY 2025

Payments By Electronic Funds Transfer (Payroll)				
15/01/2025	PP15/25 cycle 1	Pay Summary	\$	519,600.72
15/01/2025	PP15/25 cycle 2	Pay Summary	\$	97,534.26
29/01/2025	PP16/25 cycle 1	Pay Summary	\$	536,532.60
29/01/2025	PP16/25 cycle 2	Pay Summary	\$	87,506.79
Total Payroll Payments Direct From Municipal Account			\$	1,241,174.37
Payment By Direct Debit From Municipal Account				
		Bendigo - Merch Bank Fees	\$	2,743.03
		Bendigo - Direct Debit Fees (incl FTS)	\$	201.75
		Superchoice	\$	263,758.00
		Commonwealth Bank - Bpoint Fees	\$	30.46
		WEX Australia	\$	381.78
		NAB - Purchase Cards	\$	17,657.78
		Fleetcare - Fuel Payments	\$	7,826.50
		HP Financial Services - Equipment Lease	\$	20,011.20
		Konica Minolta - Printer Lease	\$	4,368.66
		WA Treasury Corporation	\$	91,888.81
		WA Treasury Corporation - Guarantee Fee	\$	27,176.58
		Qikkids - Fees	\$	62.04
		CBA Merchant Fee	\$	585.67
		Bpay Monthly Fee	\$	1,905.48
		Debitsuccess	\$	276.46
Total Electronic Fund Payments Direct From Municipal Account			\$	438,874.20

NAB Purchase Card Payments List for January 2025

<u>Date</u>	<u>Supplier</u>	<u>Description</u>	<u>Amount</u>	<u>Card User</u>
27-Dec-24	Meta	Facebook post	\$ 15.79	Mrs P Heath
28-Dec-24	Eventbrite	Library Eventbrite subscription	\$ 15.00	Ms G Evans
30-Dec-24	Instant Windscreens	Replacement windscreen 1HYI923	\$ 1,708.56	Mrs R L McLaughlin
31-Dec-24	Melbourne IT	Registration railwayreserves.com	\$ 27.01	Mrs P Heath
31-Dec-24	Melbourne IT	Domain renewal railwayreserves.com	\$ 99.95	Mrs P Heath
02-Jan-25	Woolworths Midland Centre	Kitchen supplies	\$ 22.47	Ms G Evans
02-Jan-25	Jora.com	Job Advertisement - Coordinator Business Improvement	\$ 69.00	Ms A E Douglas
03-Jan-25	City Of Kalamunda	AFM Library - Adult stock	\$ 50.00	Ms A L Rowe
03-Jan-25	Kmart	Whiteboards	\$ 32.00	Mrs J E Lucas
03-Jan-25	Australia Post Midland	Library survey prize	\$ 55.95	Mrs J E Lucas
03-Jan-25	Officeworks	VacSwim supplies	\$ 83.44	Ms S H Crawford
03-Jan-25	Woolworths Mundaring	Bilgoman - Aqua nappies and electrolytes	\$ 85.25	Ms S H Crawford
04-Jan-25	Intuit Mailchimp	Online newsletter distribution	\$ 63.72	Mrs P Heath
06-Jan-25	Target	MECPC - Resources for rooms	\$ 179.50	Ms S Harlow
06-Jan-25	Kmart	MECPC - Resources for rooms	\$ 159.80	Ms S Harlow
06-Jan-25	Kmart	MECPC - Resources for rooms	\$ 183.00	Ms S Harlow
06-Jan-25	Officeworks	MECPC - Stationery for rooms	\$ 594.00	Mrs S E Broad
06-Jan-25	BP The Lakes	Catering for Lakes Bushfire Incident Jan 2025	\$ 231.00	Mr M R Luzi
06-Jan-25	BP The Lakes	Catering for Lakes Bushfire Incident Jan 2025	\$ 253.90	Mr M R Luzi
06-Jan-25	BP The Lakes	Catering for Lakes Bushfire Incident Jan 2025	\$ 250.30	Mr M R Luzi
06-Jan-25	BP The Lakes	Catering for Lakes Bushfire Incident Jan 2025	\$ 237.80	Mr M R Luzi
06-Jan-25	Midland Post Shop	Midvale Hub - Postage bags and stamps	\$ 172.40	Mrs J A Pearce
06-Jan-25	Mundaring Newsagency	Farewell cards for staff	\$ 56.99	Ms A E Douglas
06-Jan-25	Department Of Transport	Licence registration 1TTJ970 VBFB Trailer	\$ 71.25	Mrs R L McLaughlin
07-Jan-25	Meta	Fraudulent transaction (refunded)	\$ 100.17	Ms G Evans
07-Jan-25	Woolworths Mundaring	School holiday art activity	\$ 20.50	Mrs K D White
07-Jan-25	Woolworths Mundaring	Sunscreen protection for Shire events	\$ 104.50	Mrs K D White
07-Jan-25	Baby Bunting	MECPC - Resources for babies' room	\$ 93.83	Ms S Harlow
07-Jan-25	Baby Bunting	MECPC - Resources for babies' room	\$ 75.88	Ms S Harlow
07-Jan-25	Chargeback Credit Adjustment	Refund - Fraudulent transaction	REFUND \$ (99.18)	Ms G Evans
08-Jan-25	Kmart	MECPC - Resources for rooms	\$ 156.00	Ms S Harlow
08-Jan-25	The Caravan Shed	Replacement rooftop aircon unit - 073MDG	\$ 2,000.00	Mrs R L McLaughlin
08-Jan-25	Department Of Justice	Court Hearing Notice Lodgement	\$ 189.00	Mr M R Luzi
09-Jan-25	Officeworks	Midvale Hub - Office supplies	\$ 295.94	Mrs J A Pearce
09-Jan-25	Warequip Solutions Pty Ltd	Midvale Hub - 2 Tier trolley	\$ 418.00	Mrs J A Pearce
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Meta	Promoting Family Day Care vacancies	\$ 3.00	Mrs G L Crosse
09-Jan-25	Officeworks	Stationery supplies - Mundaring Arena	\$ 99.37	Mr S K Blankley
09-Jan-25	Mt Helena Hardware	Duct tape	\$ 22.44	Ms S H Crawford
10-Jan-25	Coles	Bilgoman - Hand soap	\$ 16.80	Ms S H Crawford

NAB Purchase Card Payments List for January 2025

<u>Date</u>	<u>Supplier</u>	<u>Description</u>	<u>Amount</u>	<u>Card User</u>
12-Jan-25	Meta	Promoting Childcare vacancies	\$ 4.00	Mrs G L Crosse
12-Jan-25	Meta	Promoting Childcare vacancies	\$ 4.00	Mrs G L Crosse
12-Jan-25	Meta	Promoting Childcare vacancies	\$ 6.00	Mrs G L Crosse
12-Jan-25	Meta	Promoting Childcare vacancies	\$ 3.00	Mrs G L Crosse
12-Jan-25	Starlink	Subscription Lake Leschenaultia	\$ 139.00	Mr R J Grieves
13-Jan-25	Meta	Promoting Childcare vacancies	\$ 6.00	Mrs G L Crosse
13-Jan-25	Swan View IGA	Kitchen supplies	\$ 37.77	Mrs A Tomizzi
13-Jan-25	Department Of Transport	Licence Fees 008MDG	\$ 83.80	Mrs R L McLaughlin
14-Jan-25	Meta	Promoting MECPC vacancies	\$ 6.00	Mrs G L Crosse
15-Jan-25	Meta	Promoting MECPC vacancies	\$ 9.00	Mrs G L Crosse
15-Jan-25	Spotify	Libraries Spotify subscription	\$ 13.99	Miss S Mullally
15-Jan-25	JB Hi-Fi	AFM Library - Junior AV stock	\$ 192.82	Ms A L Rowe
15-Jan-25	JB Hi-Fi	AFM Library - Junior AV stock	\$ 264.83	Ms A L Rowe
15-Jan-25	JB Hi-Fi	AFM Library - AV stock	\$ 403.63	Ms A L Rowe
15-Jan-25	Big W Midland Gate	Middle Swan CPC - Program supplies and equipment	\$ 339.00	Mrs T Leonard
15-Jan-25	Department Of Transport	Plate Change 820MDG	\$ 50.50	Mrs R L McLaughlin
15-Jan-25	LinkedIn	Job Advertisement - Senior Project Officer	\$ 228.17	Mr S M Purdy
15-Jan-25	Baby Bunting	CPC Middle Swan - Car seats for school pickups	\$ 835.80	Mrs S E Broad
16-Jan-25	Meta	Promoting MECPC vacancies	\$ 9.00	Mrs G L Crosse
16-Jan-25	Exchange Rate Adjustment	Refund - Fraudulent transaction	REFUND \$ (0.99)	Ms G Evans
16-Jan-25	Woolworths Mundaring	Lake Leschenaultia team lunch	\$ 92.75	Mr C M Cuthbert
16-Jan-25	Coles Mundaring	Lake Leschenaultia team lunch	\$ 21.25	Mr C M Cuthbert
16-Jan-25	Lovatts Magazines	KSP Library - Magazine subscription	\$ 74.00	Ms A L Rowe
16-Jan-25	Auslan Hub	AFM Library - Junior book stock	\$ 205.20	Ms A L Rowe
16-Jan-25	CSIRO	KSP Library - Magazine subscription	\$ 79.00	Ms A L Rowe
16-Jan-25	Woolworths Mundaring	Catering - Australia Day breakfast	\$ 48.20	Mrs D W Wells
16-Jan-25	Officeworks	Projector for Parenting Services	\$ 699.00	Mrs A Tomizzi
16-Jan-25	PTC Midland Gate	Libraries - Case for tablet	\$ 40.20	Mrs J E Lucas
16-Jan-25	Midland Mobile Repair	Libraries - Screen protector	\$ 30.00	Mrs J E Lucas
16-Jan-25	Bunnings	Libraries - Storage crate	\$ 6.75	Mrs J E Lucas
17-Jan-25	Meta	Promoting MECPC vacancies	\$ 9.00	Mrs G L Crosse
17-Jan-25	LinkedIn	Job Advertisement - Manager Project Delivery	\$ 229.18	Mr S M Purdy
17-Jan-25	Baby Bunting	Children's Services - Child booster seats	\$ 98.00	Mrs T Leonard
17-Jan-25	Baby Bunting	Children's Services - Child booster seats	\$ 343.00	Mrs T Leonard
18-Jan-25	Meta	Promoting Childcare vacancies	\$ 14.00	Mrs G L Crosse
18-Jan-25	Campaign Monitor	Library bulk e-newsletter	\$ 129.73	Mrs J E Lucas
20-Jan-25	Meta	Childcare vacancies	\$ 16.00	Mrs G L Crosse
20-Jan-25	Subway Swan View	Catering for Children's Services Envisage Training	\$ 122.75	Mrs A Tomizzi
21-Jan-25	Miro.Com	Annual subscription - Business Improvement	\$ 344.77	Ms G R Peacock
21-Jan-25	Woolworths Mundaring	Catering - Friends Group Reserves Program	\$ 37.80	Mr D L O'Brien
21-Jan-25	Meta	Promoting Childcare vacancies	\$ 18.00	Mrs G L Crosse
21-Jan-25	Kmart	Library children's programs - resources	\$ 42.50	Miss S Mullally
21-Jan-25	Kmart	Room resources - MECPC Childcare	\$ 60.00	Mrs S E Broad
21-Jan-25	Officeworks	Children's Services - Office supplies	\$ 476.76	Mrs T Leonard
22-Jan-25	Coles Mundaring	Operations staff consumables	\$ 58.80	Mrs J N Dutton
22-Jan-25	Target	Resources for Library children's program	\$ 113.50	Miss S Mullally

NAB Purchase Card Payments List for January 2025

<u>Date</u>	<u>Supplier</u>	<u>Description</u>		<u>Amount</u>	<u>Card User</u>
22-Jan-25	Kmart	Refund - stock unavailable	REFUND	\$ (8.50)	Miss S Mullally
22-Jan-25	Big W	AFM Library - adult book stock		\$ 413.00	Ms A L Rowe
22-Jan-25	Officeworks	Certificates for awards		\$ 22.58	Mrs D W Wells
22-Jan-25	Big W	MECPC Childcare - Room resources		\$ 49.00	Mrs S E Broad
22-Jan-25	Noble Falls Tavern	Incident #706550 - Welfare supplies		\$ 748.00	Mr C M Cuthbert
22-Jan-25	Australia Post Mundaring	Envelope supplies for samples		\$ 36.80	Ms S Elhani
22-Jan-25	DWER - Water	Permit emergency access upgrade - Clifton St Chidlow		\$ 400.00	Ms M Beley
22-Jan-25	Mt Helena Deli & Takeaway	Catering for Lakes Bushfire Incident Jan 2025		\$ 351.15	Mr C M Cuthbert
23-Jan-25	Kmart	Children's Services resources		\$ 149.00	Mrs T Leonard
24-Jan-25	Kmart	MECPC - Resources for rooms		\$ 44.00	Ms S Harlow
24-Jan-25	Meta	Promoting Childcare vacancies		\$ 13.00	Mrs G L Crosse
24-Jan-25	Meta	Promoting Childcare vacancies		\$ 4.00	Mrs G L Crosse
24-Jan-25	Meta	Promoting Childcare vacancies		\$ 9.44	Mrs G L Crosse
24-Jan-25	Hills Fresh	Australia Day Awards supplies		\$ 39.96	Mrs D W Wells
24-Jan-25	The Artisan Mundaring Bakery And Cafe	Australia Day Awards supplies		\$ 43.63	Mrs D W Wells
25-Jan-25	Meta	Promoting Childcare vacancies		\$ 6.62	Mrs G L Crosse
25-Jan-25	Meta	Promoting Childcare vacancies		\$ 7.99	Mrs G L Crosse
25-Jan-25	Meta	Promoting Childcare vacancies		\$ 20.00	Mrs G L Crosse
25-Jan-25	Meta	Promoting Childcare vacancies		\$ 5.69	Mrs G L Crosse
25-Jan-25	Meta	Promoting Childcare vacancies		\$ 16.08	Mrs G L Crosse
25-Jan-25	Coles	Library public event supplies		\$ 39.00	Ms G Evans
26-Jan-25	OpenAI	ChatGPT monthly subscription		\$ 32.19	Mrs P Heath
26-Jan-25	Meta	Promoting Childcare vacancies		\$ 6.61	Mrs G L Crosse
26-Jan-25	Meta	Promoting Childcare vacancies		\$ 8.42	Mrs G L Crosse
27-Jan-25	Meta	Promoting Childcare vacancies		\$ 22.00	Mrs G L Crosse
27-Jan-25	Meta	Promoting Childcare vacancies		\$ 23.43	Mrs G L Crosse
28-Jan-25	Woolworths Mundaring	Catering - Corporate Services Team Meeting		\$ 138.30	Ms A E Douglas
28-Jan-25	Meta	Promoting Family Day Care vacancies		\$ 18.72	Mrs G L Crosse
28-Jan-25	ClickSend	SMS online subscription		\$ 20.00	Mrs G L Crosse
28-Jan-25	Quik Corp Pty Ltd	Reed Self Guide Parts - 091MDG		\$ 659.53	Mrs R L McLaughlin
28-Jan-25	Woolworths Mundaring	Bilgoman - Hand soap and sunscreen		\$ 31.85	Ms S H Crawford
28-Jan-25	Coles	Library public event supplies		\$ 5.50	Ms G Evans
Total Purchase Card Payments				\$ 17,657.78	

**MONTHLY LIST OF FUELCARD TRANSACTIONS
DECEMBER 2024**

Transaction Date	Supplier	Registration	Vehicle	Amount
28/11/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	65.02
28/11/2024	MOTORPASS	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	65.21
28/11/2024	MOTORPASS	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	19.22
28/11/2024	MOTORPASS	816MDG	TOYOTA HILUX UTE	61.87
28/11/2024	MOTORPASS	071MDG	TOYOTA LANDCRUISER UTE	83.76
28/11/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	48.52
28/11/2024	MOTORPASS	088MDG	TOYOTA LANDCRUISER WAGON	115.85
29/11/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	57.21
29/11/2024	BP	819MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	99.18
29/11/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	54.25
29/11/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	0.81
29/11/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	53.72
29/11/2024	BP	827MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	57.82
30/11/2024	SHELL	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	68.37
30/11/2024	BP	808MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	90.15
30/11/2024	BP	072MDG	ISUZU TRUCK	76.02
30/11/2024	MOTORPASS	073MDG	ISUZU FTR 900 CREW C/CHAS 7.8L	228.62
30/11/2024	BP	091MDG	ISUZU TRUCK	51.73
1/12/2024	MOTORPASS	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	64.21
1/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	1.89
1/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	62.67
2/12/2024	Fleetcare	05MDG	ISUZU D-MAX SX HI-RIDE (4x4) CREW C	6.55
2/12/2024	Fleetcare	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	6.55
2/12/2024	Fleetcare	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	6.55
2/12/2024	Fleetcare	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	6.55
2/12/2024	Fleetcare	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	6.55
2/12/2024	Fleetcare	1HY1923	HYUNDAI SANTA FE ACTIVE MPI (2WD) 4	6.55
2/12/2024	Fleetcare	1HZZ933	VOLKSWAGEN TIGUAN 235TSI R 4D WAGON	6.55
2/12/2024	Fleetcare	1IEE062	KIA CERATO SPORT+ 4D SEDAN 2.0L	6.55
2/12/2024	Fleetcare	1IKT989	KIA CARNIVAL WAGON	6.55
2/12/2024	Fleetcare	1IKT989	KIA CARNIVAL WAGON	16.50
2/12/2024	Fleetcare	805MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	6.55
2/12/2024	Fleetcare	808MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	6.55
2/12/2024	Fleetcare	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	6.55
2/12/2024	Fleetcare	816MDG	TOYOTA HILUX UTE	6.55
2/12/2024	Fleetcare	819MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	6.55
2/12/2024	Fleetcare	820MDG	HOLDEN COLORADO LS (4x2) CREW C/CHA	6.55
2/12/2024	Fleetcare	821MDG	ISUZU D-MAX SX (4x2) CREW C/CHAS 3.	6.55
2/12/2024	Fleetcare	822MDG	HOLDEN COLORADO LS (4x2) CREW CAB P	6.55
2/12/2024	Fleetcare	825MDG	ISUZU D-MAX SX (4x2) CREW CAB UTILI	6.55
2/12/2024	Fleetcare	831MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	6.55
2/12/2024	Fleetcare	832MDG	TOYOTA HIACE COMMUTER (12 SEATS) BU	6.55
2/12/2024	Fleetcare	057MDG	ISUZU D-MAX SX (4x2) C/CHAS 3.0L	6.55
2/12/2024	Fleetcare	062MDG	ISUZU D-MAX SX (4x4) CREW C/CHAS 3.	6.55
2/12/2024	Fleetcare	071MDG	TOYOTA LANDCRUISER UTE	6.55
2/12/2024	Fleetcare	072MDG	ISUZU TRUCK	6.55
2/12/2024	Fleetcare	073MDG	ISUZU FTR 900 CREW C/CHAS 7.8L	6.55
2/12/2024	Fleetcare	077MDG	TOYOTA LANDCRUISER UTE	6.55
2/12/2024	Fleetcare	079MDG	TOYOTA LANDCRUISER UTE	6.55
2/12/2024	Fleetcare	084MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	087MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	088MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	090MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	091MDG	ISUZU TRUCK	6.55
2/12/2024	Fleetcare	092MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	093MDG	TOYOTA LANDCRUISER WAGON	6.55
2/12/2024	Fleetcare	817MDG	HOLDEN COLORADO DX (4x2) C/CHAS 2.4	6.55
2/12/2024	Fleetcare	827MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	6.55
3/12/2024	Fleetcare	081MDG	TOYOTA LANDCRUISER LC300 GR-S (4x4)	6.55
3/12/2024	Fleetcare	806MDG	KIA CARNIVAL S 4D WAGON 3.5L	6.55
3/12/2024	AMPOL	831MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	101.00
4/12/2024	MOTORPASS	081MDG	TOYOTA LANDCRUISER LC300 GR-S (4x4)	10.75
4/12/2024	BP	805MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	98.37
7/12/2024	AMPOL	1HY1923	HYUNDAI SANTA FE ACTIVE MPI (2WD) 4	90.43
7/12/2024	SHELL	1HZZ933	VOLKSWAGEN TIGUAN 235TSI R 4D WAGON	78.80
7/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	38.88
9/12/2024	MOTORPASS	816MDG	TOYOTA HILUX UTE	86.59
9/12/2024	BP	827MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	77.00
10/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	93.29
10/12/2024	AMPOL	808MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	79.56

**MONTHLY LIST OF FUELCARD TRANSACTIONS
DECEMBER 2024**

Transaction Date	Supplier	Registration	Vehicle	Amount
10/12/2024	BP	832MDG	TOYOTA HIACE COMMUTER (12 SEATS) BU	87.01
10/12/2024	BP	072MDG	ISUZU TRUCK	109.64
10/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	36.41
13/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	84.65
13/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	36.18
13/12/2024	BP	1HZT933	VOLKSWAGEN TIGUAN 235TSI R 4D WAGON	93.54
13/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	45.50
13/12/2024	BP	827MDG	MINI COOPER S 5DR 1.6L	57.51
14/12/2024	MOTORPASS	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	45.33
14/12/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	30.93
15/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	80.34
15/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.02
15/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	7.23
15/12/2024	MOTORPASS	081MDG	TOYOTA LANDCRUISER LC300 GR-S (4x4)	1.02
15/12/2024	MOTORPASS	081MDG	TOYOTA LANDCRUISER LC300 GR-S (4x4)	7.23
15/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.02
15/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	7.23
15/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.07
15/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	69.65
15/12/2024	BP	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	77.60
15/12/2024	BP	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	17.79
15/12/2024	MOTORPASS	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.02
15/12/2024	MOTORPASS	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	7.23
15/12/2024	MOTORPASS	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	1.02
15/12/2024	MOTORPASS	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	7.23
15/12/2024	BP	816MDG	TOYOTA HILUX UTE	83.38
15/12/2024	MOTORPASS	816MDG	TOYOTA HILUX UTE	1.02
15/12/2024	MOTORPASS	816MDG	TOYOTA HILUX UTE	7.23
15/12/2024	MOTORPASS	071MDG	TOYOTA LANDCRUISER UTE	1.02
15/12/2024	MOTORPASS	071MDG	TOYOTA LANDCRUISER UTE	7.23
15/12/2024	MOTORPASS	072MDG	ISUZU TRUCK	1.02
15/12/2024	MOTORPASS	072MDG	ISUZU TRUCK	7.23
15/12/2024	MOTORPASS	073MDG	ISUZU FTR 900 CREW C/CHAS 7.8L	1.02
15/12/2024	MOTORPASS	073MDG	ISUZU FTR 900 CREW C/CHAS 7.8L	7.23
15/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	46.52
15/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	1.02
15/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	7.23
15/12/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	1.02
15/12/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	7.23
15/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	1.02
15/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	7.23
15/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	1.04
15/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	67.94
15/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	1.02
15/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	7.23
15/12/2024	MOTORPASS	088MDG	TOYOTA LANDCRUISER WAGON	1.02
15/12/2024	MOTORPASS	088MDG	TOYOTA LANDCRUISER WAGON	7.23
15/12/2024	BP	091MDG	ISUZU TRUCK	92.16
15/12/2024	MOTORPASS	092MDG	TOYOTA LANDCRUISER WAGON	1.02
15/12/2024	MOTORPASS	092MDG	TOYOTA LANDCRUISER WAGON	7.23
16/12/2024	BP	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	48.65
16/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	119.37
16/12/2024	BP	071MDG	TOYOTA LANDCRUISER UTE	114.01
16/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	0.68
16/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	45.37
16/12/2024	BP	087MDG	TOYOTA LANDCRUISER WAGON	40.65
16/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	1.08
16/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	70.73
16/12/2024	BP	088MDG	TOYOTA LANDCRUISER WAGON	98.62
17/12/2024	BP	816MDG	TOYOTA HILUX UTE	60.50
17/12/2024	BP	819MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	87.12
17/12/2024	MOTORPASS	072MDG	ISUZU TRUCK	61.29
17/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	0.48
17/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	33.13
18/12/2024	BP	805MDG	KIA GRAND CARNIVAL Si 4D WAGON 3.5L	84.55
18/12/2024	SHELL	806MDG	KIA CARNIVAL S 4D WAGON 3.5L	141.59
18/12/2024	BP	808MDG	MINI COOPER S 5DR 1.6L	87.29
19/12/2024	BP	816MDG	TOYOTA HILUX UTE	40.72
20/12/2024	BP	1HZT933	VOLKSWAGEN TIGUAN 235TSI R 4D WAGON	101.48
21/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	32.72

**MONTHLY LIST OF FUELCARD TRANSACTIONS
DECEMBER 2024**

Transaction Date	Supplier	Registration	Vehicle	Amount
21/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	2.77
21/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	90.79
21/12/2024	MOTORPASS	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	63.02
21/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	30.00
21/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	34.41
21/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	1.24
21/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	41.96
22/12/2024	MOTORPASS	816MDG	TOYOTA HILUX UTE	66.98
22/12/2024	AMPOL	822MDG	HOLDEN COLORADO LS (4x2) CREW CAB P	96.65
22/12/2024	BP	827MDG	MINISUBISHI OUTLANDER ES 5 SEAT (2WD)	75.61
23/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.20
23/12/2024	MOTORPASS	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	77.91
23/12/2024	BP	072MDG	ISUZU TRUCK	135.11
23/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	0.44
23/12/2024	MOTORPASS	084MDG	TOYOTA LANDCRUISER WAGON	30.72
23/12/2024	BP	091MDG	ISUZU TRUCK	102.52
24/12/2024	BP	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	104.01
24/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	1.32
24/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	85.36
24/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	73.71
24/12/2024	BP	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	18.23
24/12/2024	BP	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	23.73
24/12/2024	BP	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	5.24
24/12/2024	BP	086MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	59.13
24/12/2024	BP	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	49.51
24/12/2024	BP	089MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	8.29
24/12/2024	BP	1HZZ933	VOLKSWAGEN TIGUAN 235TSI R 4D WAGON	59.49
24/12/2024	MOTORPASS	815MDG	TOYOTA HILUX SR (4x4) DOUBLE C/CHAS	68.96
24/12/2024	BP	816MDG	TOYOTA HILUX UTE	41.98
24/12/2024	BP	071MDG	TOYOTA LANDCRUISER UTE	116.10
24/12/2024	BP	072MDG	ISUZU TRUCK	103.84
24/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	0.93
24/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	61.09
24/12/2024	MOTORPASS	077MDG	TOYOTA LANDCRUISER UTE	44.45
24/12/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	0.99
24/12/2024	MOTORPASS	079MDG	TOYOTA LANDCRUISER UTE	64.89
24/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	1.23
24/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	80.10
24/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	2.81
24/12/2024	MOTORPASS	087MDG	TOYOTA LANDCRUISER WAGON	92.10
24/12/2024	BP	088MDG	TOYOTA LANDCRUISER WAGON	81.87
24/12/2024	BP	092MDG	TOYOTA LANDCRUISER WAGON	79.18
26/12/2024	MOTORPASS	078MDG	ISUZU NPS 300 (4x4) C/CHAS 5.2L	51.57
26/12/2024	BP	1IEE062	KIA CERATO SPORT+ 4D SEDAN 2.0L	75.64
28/12/2024	SHELL	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	73.46
28/12/2024	SHELL	074MDG	TOYOTA HILUX SR (4x4) DUAL C/CHAS 3	69.99
28/12/2024	BP	071MDG	TOYOTA LANDCRUISER UTE	83.71
28/12/2024	BP	072MDG	ISUZU TRUCK	136.76
28/12/2024	BP	090MDG	TOYOTA LANDCRUISER WAGON	73.40
29/12/2024	BP	1IEE062	KIA CERATO SPORT+ 4D SEDAN 2.0L	77.96
Total			Fleetcare Account	\$ 7,826.50

Transaction Date	Supplier	Registration	Vehicle	Amount
30/11/2024	WEX Australia	093MDG	TOYOTA LANDCRUISER WAGON	14.00
30/11/2024	WEX Australia	092MDG	TOYOTA LANDCRUISER WAGON	14.00
4/12/2024	Caltex	092MDG	TOYOTA LANDCRUISER WAGON	103.27
10/12/2024	Caltex	091MDG	TOYOTA LANDCRUISER LT	64.90
16/12/2024	S24 Sawyers Valley	072MDG	ISUZU TRUCK	116.23
28/12/2024	Caltex	091MDG	TOYOTA LANDCRUISER LT	69.38
Total			Motorpass Account	\$ 381.78

11.0 COUNCIL MEMBER MOTIONS OF WHICH PREVIOUS NOTICE HAS BEEN GIVEN

Nil

12.0 URGENT BUSINESS (LATE REPORTS)

13.0 CONFIDENTIAL REPORTS

Meeting Closed to Public

The Local Government Act 1995, Part 5, Section 5.23 states in part:

- (2) If a meeting is being held by a council or by a committee referred to in subsection (1)(b), the council or committee may close to members of the public the meeting, or part of the meeting, if the meeting or the part of the meeting deals with any of the following —
- (a) a matter affecting an employee or employees; and
 - (b) the personal affairs of any person; and
 - (c) a contract entered into, or which may be entered into, by the local government and which relates to a matter to be discussed at the meeting; and
 - (d) legal advice obtained, or which may be obtained, by the local government and which relates to a matter to be discussed at the meeting; and
 - (e) a matter that if disclosed, would reveal —
 - (i) a trade secret; or
 - (ii) information that has a commercial value to a person; or
 - (iii) information about the business, professional, commercial or financial affairs of a person, where the trade secret or information is held by, or is about, a person other than the local government; and
 - (f) a matter that if disclosed, could be reasonably expected to —
 - (i) impair the effectiveness of any lawful method or procedure for preventing, detecting, investigating or dealing with any contravention or possible contravention of the law; or
 - (ii) endanger the security of the local government's property; or
 - (iii) prejudice the maintenance or enforcement of a lawful measure for protecting public safety; and
 - (g) information which is the subject of a direction given under section 23(1a) of the *Parliamentary Commissioner Act 1971*; and
 - (h) such other matters as may be prescribed.

RECOMMENDATION

That Council closes the meeting to members of the public, in accordance with s5.23(2) of the *Local Government Act 1995*, in order to consider the confidential reports as detailed below:

13.1 Tender Outcome - Design and Construction Supervision for Mundaring Cultural Hub (Adjourned from February 2025 Ordinary Council Meeting)

Item 13.1 is considered confidential in accordance with the *Local Government Act 1995* section 5.23(2) (e(ii)) as it contains information relating to a matter that if disclosed, would reveal information that has a commercial value to a person.

File Code	PR.RFT 04.2425
Author	Rene Baur, Manager Building Assets
Senior Employee	Shane Purdy, Director Infrastructure Services
Disclosure of Any Interest	Nil
Attachments	1. Recommendation Report PR.RFT 04.2425 Mundaring Cultural Hub (confidential)

Please refer to confidential item provided under separate cover.

14.0 CLOSING PROCEDURES

14.1 Date, Time and Place of the Next Meeting

The next Ordinary Council meeting will be held on Tuesday, 8 April 2025 at 6:30pm in the Council Chamber.

14.2 Closure of the Meeting