

ATTACHMENTS

Ordinary Meeting of Council

Tuesday 28 August 2018

6.00pm

City of Albany Council Chambers

ORDINARY COUNCIL MEETING
ATTACHMENTS – 28/08/2018

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City of Albany
MONTHLY FINANCIAL REPORT
For the Period Ended 30th June 2018

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Interim Accounts. Pending Audit.

City of Albany
Compilation Report
For the Period Ended 30th June 2018

Report Purpose

This report is prepared to meet the requirements of Local Government (Financial Management) Regulations 1996, Regulation 34 .

Overview

The preliminary closing surplus of \$ 2 931 125 is used to fund carried forward projects in the 2018/19 Budget.

The projected surplus carried forward in the 2018/19 budget was \$2 921 457.

Under the 2018/19 budget, Note 15: Projects carried forward - allocates this as follows:

| | |
|--|--------------|
| Total Carried forward - 2018/18 Budget | \$11,632,870 |
| Funded by: | |
| Municipal (Opening Surplus) | \$2,921,457 |
| Grant | \$2,603,411 |
| Reserves | \$2,808,002 |
| Loan | \$3,300,000 |

Statement of Financial Activity by reporting nature or type

Is presented on page 3 and shows a surplus For the Period Ended 30th June 2018 of \$2,931,125.

Note: The Statements and accompanying notes are prepared based on all transactions recorded at the time of preparation and may vary.

Preparation

Prepared by: S Van Nierop
 Reviewed by: D Olde
 Date prepared: 1/08/2018

Interim Accounts. Pending Audit.

City of Albany
STATEMENT OF FINANCIAL ACTIVITY
(Nature or Type)
For the Period Ended 30th June 2018

| Note | Original Annual Budget | Revised Annual Budget | YTD Budget (a) | YTD Actual (b) | Var. \$ (b)-(a) | Var. % (b)-(a)/(a) | |
|--|---------------------------|--------------------------|----------------------|----------------------|--------------------|-----------------------|---|
| Operating Revenues | | | | | | | |
| | \$ | \$ | \$ | \$ | \$ | % | |
| Rate Revenue | 35,461,300 | 35,476,311 | 35,476,311 | 35,568,000 | 91,689 | 0.3% | |
| Grants & Subsidies | 3,184,285 | 3,621,290 | 3,621,290 | 5,440,585 | 1,819,295 | 50.2% | ▲ |
| Contributions, Donations & Reimbursements | 648,959 | 773,959 | 773,959 | 1,055,321 | 281,362 | 36.4% | ▲ |
| Profit on Asset Disposal | 15,872 | 15,872 | 15,872 | 68,484 | 52,612 | 331.5% | ▲ |
| Fees and Charges | 17,105,686 | 17,263,686 | 17,263,686 | 17,612,640 | 348,954 | 2.0% | ▲ |
| Interest Earnings | 1,134,492 | 1,134,492 | 1,134,492 | 1,278,352 | 143,860 | 12.7% | ▲ |
| Other Revenue | 364,522 | 364,522 | 364,522 | 249,662 | (114,860) | (31.5%) | ▼ |
| Total | 57,915,116 | 58,650,132 | 58,650,132 | 61,273,045 | 2,622,913 | | |
| Operating Expenses | | | | | | | |
| Employee Costs | (26,369,593) | (26,454,104) | (26,454,104) | (25,906,627) | 547,477 | 2.1% | ▼ |
| Materials and Contracts | (17,285,414) | (18,168,193) | (18,168,193) | (17,819,672) | 348,522 | 1.9% | ▼ |
| Utilities Charges | (1,850,099) | (2,000,099) | (2,000,099) | (1,923,927) | 76,172 | 3.8% | ▼ |
| Depreciation (Non-Current Assets) | (16,910,453) | (17,455,431) | (17,455,431) | (17,844,205) | (388,774) | (2.2%) | ▲ |
| Interest Expenses | (871,085) | (871,085) | (871,085) | (876,705) | (5,620) | (0.6%) | ▼ |
| Insurance Expenses | (708,302) | (708,302) | (708,302) | (670,678) | 37,624 | 5.3% | ▼ |
| Loss on Asset Disposal | (608,999) | (1,689,448) | (1,689,448) | (1,665,889) | 23,559 | 1.4% | ▼ |
| Other Expenditure | (2,911,281) | (3,013,825) | (3,013,825) | (2,739,818) | 274,007 | 9.1% | ▼ |
| Less: Allocated to Infrastructure | 858,143 | 858,143 | 858,143 | 1,079,826 | 221,683 | 25.8% | ▲ |
| Total | (66,657,083) | (69,502,345) | (69,502,345) | (68,367,695) | 1,134,650 | | |
| Contributions for the Development of Assets | | | | | | | |
| Grants & Subsidies | 8,164,879 | 11,404,582 | 11,404,582 | 8,381,520 | (3,023,062) | (26.5%) | ▼ |
| Contributions, Donations & Reimbursements | 550,000 | 656,545 | 656,545 | 1,475,704 | 819,159 | 124.8% | ▲ |
| Net Operating Result | (27,088) | 1,208,914 | 1,208,914 | 2,762,574 | 1,553,660 | | |
| Funding Balance Adjustment | | | | | | | |
| Add Back Depreciation | 16,910,453 | 17,455,431 | 17,455,431 | 17,844,205 | 388,774 | 2.2% | ▲ |
| Adjust (Profit)/Loss on Asset Disposal | 593,127 | 1,673,576 | 1,673,576 | 1,597,405 | (76,171) | (4.6%) | ▼ |
| Add back Carrying Value of Investment Land | 0 | 82,000 | 82,000 | 82,000 | 0 | 0.0% | ▼ |
| Funds Demanded From Operations | 17,476,492 | 20,419,921 | 20,419,921 | 22,286,184 | 1,866,263 | | |
| Capital Revenues | | | | | | | |
| Proceeds from Disposal of Assets | 694,888 | 783,224 | 783,224 | 729,452 | (53,772) | (6.9%) | ▼ |
| Total | 694,888 | 783,224 | 783,224 | 729,452 | (53,772) | | |
| Acquisition of Fixed Assets | | | | | | | |
| Land and Buildings | (7,969,596) | (9,590,697) | (9,590,697) | (6,060,816) | 3,529,881 | 36.8% | ▼ |
| Plant and Equipment | (3,468,782) | (3,770,582) | (3,770,582) | (2,655,982) | 1,114,600 | 29.6% | ▼ |
| Furniture and Equipment | (636,900) | (711,900) | (711,900) | (570,695) | 141,205 | 19.8% | ▼ |
| Infrastructure Assets - Roads | (5,676,799) | (5,993,349) | (5,993,349) | (5,252,568) | 740,781 | 12.4% | ▼ |
| Infrastructure Assets - Other | (7,139,149) | (12,846,698) | (12,846,698) | (7,284,625) | 5,562,073 | 43.3% | ▼ |
| | (24,891,226) | (32,913,226) | (32,913,226) | (21,824,685) | 11,088,541 | | |
| Financing/Borrowing | | | | | | | |
| Debt Redemption | (2,216,361) | (2,136,616) | (2,136,616) | (2,136,601) | 15 | 0.0% | ▼ |
| Loan Drawn Down | 2,120,000 | 3,920,000 | 3,920,000 | 0 | (3,920,000) | 100.0% | ▼ |
| Self-Supporting Loan Principal | 12,120 | 12,120 | 12,120 | 12,120 | (0) | 0.0% | ▼ |
| Total | (84,241) | 1,795,504 | 1,795,504 | (2,124,481) | (3,919,985) | | |
| Demand for Resources | (6,804,087) | (9,914,577) | (9,914,577) | (933,530) | 8,981,047 | | |
| Restricted Funding Movements | | | | | | | |
| Opening Funding Surplus(Deficit) | 2,230,734 | 2,668,285 | 2,668,285 | 2,680,404 | 12,119 | 0.5% | ▼ |
| Restricted Cash Utilised - Loan | 547,125 | 841,758 | 841,758 | 841,758 | 0 | 0.0% | ▼ |
| Transfer to Reserves | (11,901,803) | (12,101,684) | (12,101,684) | (16,917,902) | (4,816,218) | 39.8% | ▼ |
| Transfer from Reserves | 15,928,031 | 18,506,217 | 18,506,217 | 17,260,394 | (1,245,823) | | ▼ |
| Closing Funding Surplus(Deficit) | 0 | 0 | 0 | 2,931,125 | 2,931,124 | | |

Interim Accounts. Pending Audit.

City of Albany
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 30th June 2018

Note 1: EXPLANATION OF MATERIAL VARIANCES IN EXCESS OF \$100,000

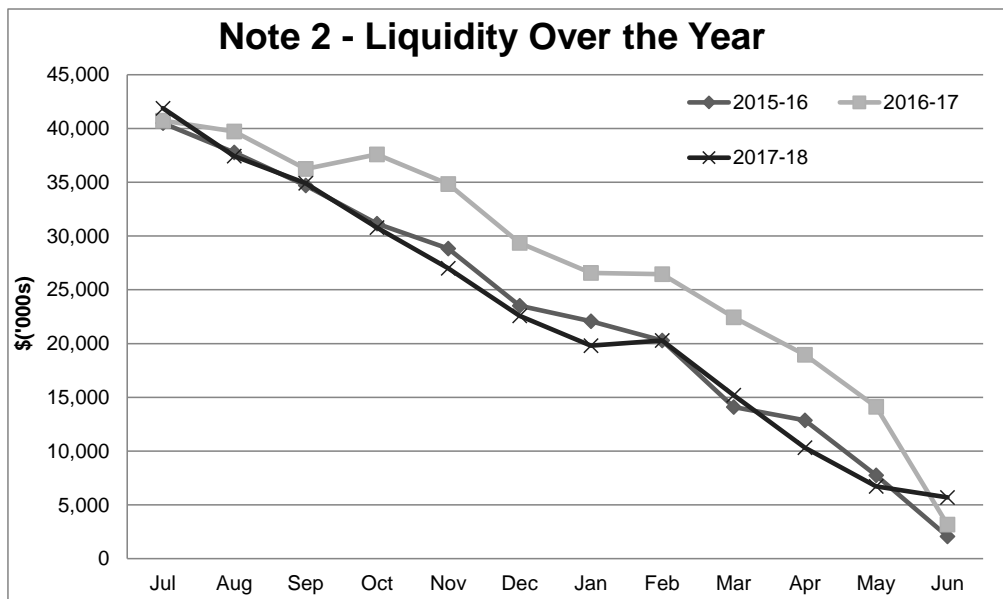
| | Var. | Var. | Timing/ Permanent | Explanation of Variance |
|--|-------------|------|----------------------|--|
| | \$ | | | |
| 1.1 Operating Revenues | | | | |
| Rate Revenue | 91,689 | | | No material variance. |
| Grants & Subsidies | 1,819,295 | ▲ | Permanent | Prepayment of 2018/19 General Purpose and Local Road grants from the Grants Commission. |
| Contributions, Donations & Reimbursements | 281,362 | ▲ | Permanent | Retention monies on specific contracts to rectify works (\$50 000), traineeships, grants and scholarships (\$50 000). Balance smaller fundraising and minor donations. It should be noted that the income from retention monies and grants/traineeship is directly offset by the cost of remedial works and training programs. |
| Profit on Asset Disposal | 52,612 | | | No material variance. |
| Fees and Charges | 348,954 | ▲ | Permanent | Charter flight fees - airport - above budget YTD \$195 000, scrap metal - approx. \$80,000 above budget. Many other areas continue to track above budget. |
| Interest Earnings | 143,860 | ▲ | Permanent | Interest is budgeted conservatively. |
| Other Revenue | (114,860) | ▼ | Permanent | Booking commissions under budget for the year. |
| 1.2 Operating Expense | | | | |
| Employee Costs | 547,477 | ▼ | Timing | A number of these vacancies have been backfilled short term via labour hire appointments, and also the seasonal increase with some Infrastructure and Environment teams. Labour hire is captured in materials and contracts. If labour hire costs are added to other employee costs, variance is minimal and expected to be to budget. |
| Materials and Contracts | 348,522 | ▼ | Permanent | Large portion carried forward to 2018/19, including Albany land use strategy and precinct planning (\$101 000), Regional tennis study (\$45 000), land tenure requirements (\$110 000). |
| Utilities Charges | 76,172 | | | No material variance. |
| Depreciation (Non-Current Assets) | (388,774) | ▲ | Permanent | Variance due to two areas – roads and IT equipment. Roads will be subject to revaluation at year end, which will have an unknown impact on final year end depreciation. IT equipment has been depreciated at high rates due to short life cycle and frequent updates. A review of the rates used will be undertaken when producing the year end accounts. Final revaluation for infrastructure not yet finalised. Final depreciation may still vary substantially. |
| Interest Expenses | (5,620) | | | No material variance. |
| Insurance Expenses | 37,624 | | | No material variance. |
| Loss on Asset Disposal | 23,559 | | | No material variance. |
| Other Expenditure | 274,007 | ▼ | Permanent | Councillor training, travel, accomodation, sundry expenses under budget (\$72 000), memberships and subscriptions under budget (\$33 000), balance is spread across many other areas, with no major item of note. |
| Less Allocated to Infrastructure | 221,683 | ▲ | Permanent | Internal resources utilised for the end of Stage 1 CPSP, and commencement of Stage 2. |
| 1.3 Contributions for the Development of Assets | | | | |
| Grants & Subsidies | (3,023,062) | ▼ | Timing | \$1 million of funding expected for town hall to be c/fwd to 2018/19. \$650 000 for Alison Hartman Gardens likely to be c/fwd. \$183 000 for synthetic turf not received. \$279 000 c/fwd for King River & Wellstead fire sheds. \$304 000 budgeted grant for CPSP - for 2018/19 - balance allocated to Contributions. |
| Contributions, Donations & Reimbursements | 819,159 | ▲ | Permanent | Un-budgeted capital contributions received for future works programs (\$163 000). Includes \$476 000 CPSP funding budgeted under grants, allocated under contributions. |
| 1.4 Funding Balance Adjustment | | | | |
| Add Back Depreciation | 388,774 | ▲ | Permanent | As per comments for depreciation above. |
| Adjust (Profit)/Loss on Asset Disposal | (76,171) | | | No material variance. |
| 1.5 Capital Revenues | | | | |
| Proceeds from Disposal of Assets | (53,772) | | | No material variance. |
| 1.6 Acquisition of Fixed Assets | | | | |
| Land and Buildings | 3,529,881 | ▼ | Timing | Largely carried forward projects - per Note 15 of the 2018/19 Budget. |
| Plant and Equipment | 1,114,600 | ▼ | Timing | Heavy fleet program behind schedule. Balance to be carried forward to 2018/19 purchase program. |
| Furniture and Equipment | 141,205 | ▼ | Timing | Partly carried forward projects, some IT capital not expended. |
| Infrastructure Assets - Roads | 740,781 | ▼ | Timing | Largely carried forward projects - per Note 15 of the 2018/19 Budget. |
| Infrastructure Assets - Other | 5,562,073 | ▼ | Timing | Largely carried forward projects - per Note 15 of the 2018/19 Budget. |
| 1.7 Financing/Borrowing | | | | |
| Debt Redemption | 15 | | | No material variance. |
| Loan Drawn Down | (3,920,000) | ▼ | Permanent | No loans drawn down for 2017/18. |
| 1.8 Restricted Funding Movements | | | | |
| Opening Funding Surplus(Deficit) | 12,119 | | | No material variance. |
| Restricted Cash Utilised - Loan | 0 | | | |
| Transfer to Reserves | (4,816,218) | ▼ | Timing | Preliminary reserve transfers - final amounts subject to possible further end of year adjustments. |
| Transfer from Reserves | (1,245,823) | ▼ | Timing | Preliminary reserve transfers - final amounts subject to possible further end of year adjustments. |

Interim Accounts. Pending Audit.

City of Albany
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
 For the Period Ended 30th June 2018

Note 2: NET CURRENT FUNDING POSITION

| | | Positive=Surplus (Negative=Deficit) | | |
|----------------------------------|---------------------|-------------------------------------|-----------------------|--|
| | | 2017-18 | | |
| Note | This Period | Last Period | Same Period Last Year | |
| | \$ | \$ | \$ | |
| Current Assets | | | | |
| | 10,895,721 | 10,885,942 | 8,726,826 | |
| | 22,559,096 | 24,363,035 | 25,995,337 | |
| 4 | 987,604 | 1,512,110 | 809,310 | |
| | 1,837,764 | 931,105 | 1,905,860 | |
| | 205,605 | 205,605 | 205,605 | |
| | 496,285 | 295,716 | 324,235 | |
| | 293,773 | 23,004 | 388,875 | |
| | 158,000 | 158,000 | 229,609 | |
| | 12,504 | 12,120 | 12,120 | |
| | 738,419 | 769,904 | 620,485 | |
| | 38,184,772 | 39,156,541 | 39,218,262 | |
| Less: Current Liabilities | | | | |
| | (5,098,029) | (1,348,703) | (5,843,204) | |
| | (222,496) | (3,165) | (211,021) | |
| | (338,656) | (842) | (283,244) | |
| | (5,790,734) | (4,622,222) | (4,870,054) | |
| | (29,989) | (43,598) | (186,460) | |
| | (11,479,904) | (6,018,529) | (11,393,982) | |
| | 2,239,981 | 784,705 | 2,136,616 | |
| | (25,650,118) | (25,992,610) | (25,992,609) | |
| | 0 | (841,758) | (939,259) | |
| | (158,000) | (158,000) | (229,609) | |
| | (205,605) | (205,605) | (205,605) | |
| | 2,931,125 | 6,724,744 | 2,593,814 | |



Comments - Net Current Funding Position

The flatter reduction in liquidity from May to June is the movement of opening restricted funds to unrestricted, being loan funds for the AVC now expensed.

Interim Accounts. Pending Audit.

City of Albany
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 30th June 2018

Note 3: CASH INVESTMENTS

| Deposit Ref | Institution | Rating | Office Presence in City of Albany? | Deposit Date | Term (Days) | Invested Interest rates | Amount Invested | Expected Interest |
|-----------------------------|-------------|--------|------------------------------------|--------------|-------------|-------------------------|-------------------|-------------------|
| General Municipal | | | | | | | | |
| 33822504 | CBA | AA | Yes | 12/04/2018 | 123 | 2.59% | 2,000,000 | 17,456 |
| 4706880 | Bankwest | AA | Yes | 23/04/2018 | 91 | 2.65% | 2,000,000 | 13,214 |
| Subtotal | | | | | | | 4,000,000 | 30,670 |
| Restricted | | | | | | | | |
| 030399 | AMP | AA | No | 24/01/2018 | 273 | 2.65% | 2,000,000 | 39,641 |
| 4693068 | Bankwest | AA | Yes | 9/03/2018 | 122 | 2.50% | 3,000,000 | 25,068 |
| 10517791 | NAB | AA | Yes | 15/03/2018 | 120 | 2.54% | 3,000,000 | 25,052 |
| 33822504 | CBA | AA | Yes | 27/03/2018 | 120 | 2.53% | 3,000,000 | 24,953 |
| 4699871 | Bankwest | AA | Yes | 3/04/2018 | 122 | 2.55% | 2,000,000 | 17,047 |
| 2593409 | Bendigo | BBB | Yes | 20/04/2018 | 180 | 2.65% | 2,500,000 | 32,671 |
| TBA | Westpac | AA | Yes | 9/05/2018 | 184 | 2.69% | 3,000,000 | 40,682 |
| TBA | Westpac | AA | Yes | 16/05/2018 | 92 | 2.65% | 3,000,000 | 20,038 |
| Subtotal | | | | | | | 21,500,000 | 225,153 |
| Total Funds Invested | | | | | | | 25,500,000 | 255,822 |

| Investment Term | | | | |
|------------------|-------------------|------------------|----------------|----------------|
| 0 - 3 Months | 3 - 6 Months | 6 - 12 Months | 12 - 24 Months | 24 - 36 Months |
| | 2,000,000 | | | |
| 2,000,000 | | | | |
| 2,000,000 | 2,000,000 | 0 | 0 | 0 |
| | | 2,000,000 | | |
| | 3,000,000 | | | |
| | 3,000,000 | | | |
| | 3,000,000 | | | |
| | 2,000,000 | | | |
| | 2,500,000 | | | |
| | | 3,000,000 | | |
| 3,000,000 | | | | |
| 3,000,000 | 13,500,000 | 5,000,000 | 0 | 0 |
| 5,000,000 | 15,500,000 | 5,000,000 | 0 | 0 |

| Comparative rate | |
|---------------------------|---------------------------------|
| Prior Month Interest Rate | Interest Rate at time of Report |
| 2.28% | 2.59% |
| 2.50% | 2.65% |
| 2.53% | 2.65% |
| 2.45% | 2.50% |
| 2.45% | 2.54% |
| 2.26% | 2.53% |
| 2.50% | 2.55% |
| 2.45% | 2.65% |
| 2.60% | 2.69% |
| 2.59% | 2.65% |

| Budget v Actual | | |
|---------------------|---------------------|----------------|
| Year to Date Budget | Year to Date Actual | Var.\$ |
| 400,000 | 351,409 | (48,591) |
| 400,000 | 565,243 | 165,243 |
| 800,000 | 916,652 | 116,652 |

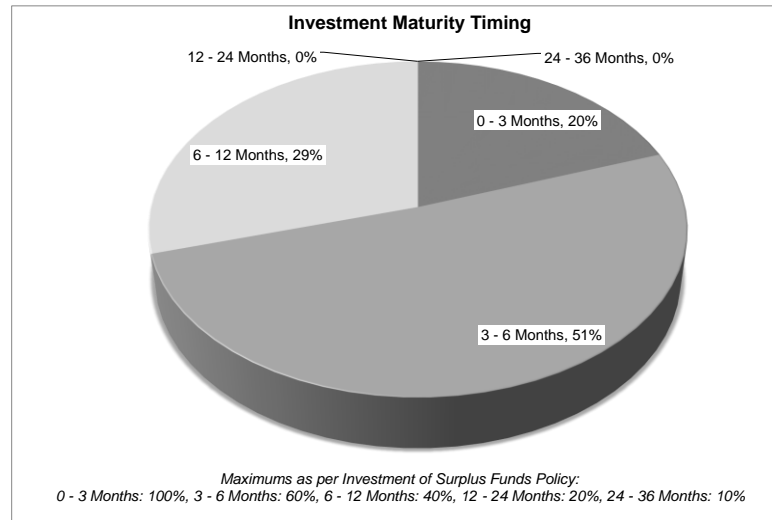
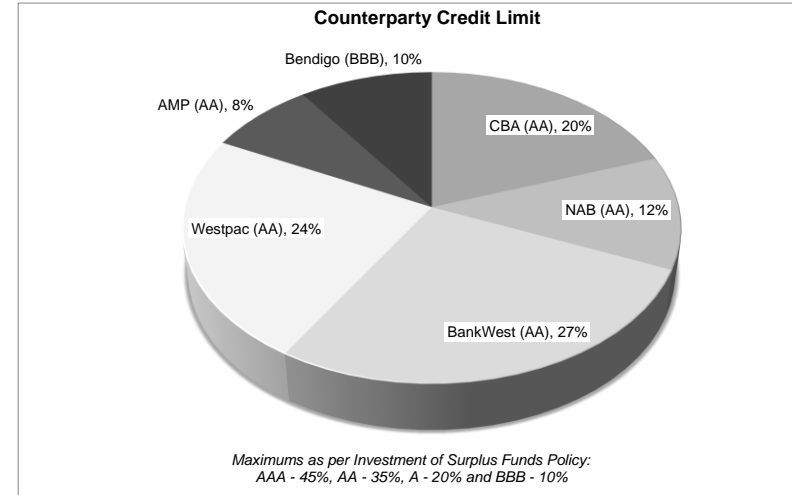
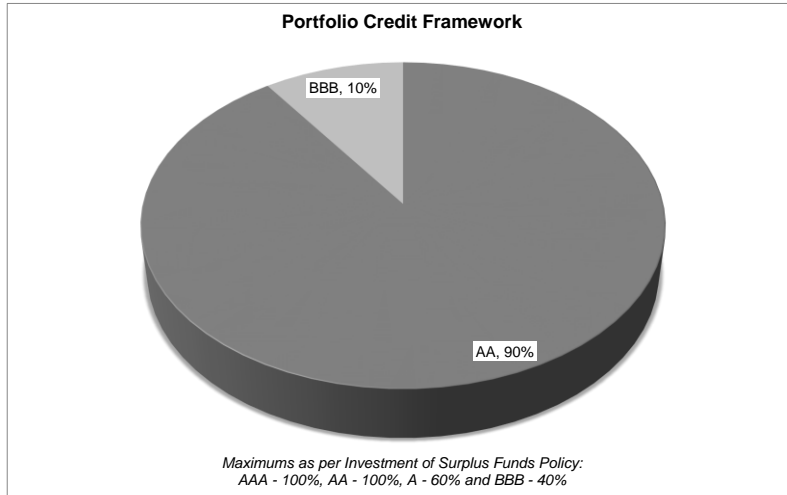
Comments/Notes - Cash Investments

Amendment to Investment of Surplus Funds Policy moved in May 2018
 Deposits are now limited to authorised deposit taking institutions that have an office presence in Albany
 Investment with AMP was entered into before amendment to Policy

Interim Accounts. Pending Audit.

City of Albany
 NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
 For the Period Ended 30th June 2018

Note 3A: GRAPHICAL REPRESENTATION - CASH INVESTMENTS



Interim Accounts. Pending Audit.

City of Albany
NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
For the Period Ended 30th June 2018

Note 4: RECEIVABLES

Receivables - Rates and Refuse

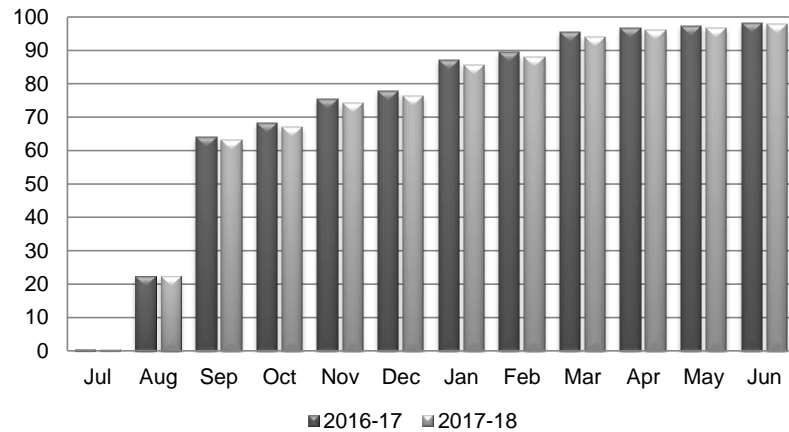
| | Current 2017-18 | Previous 2016-17 | Total |
|--|----------------------------|-----------------------------|---------------------|
| | \$ | \$ | \$ |
| Opening Arrears Previous Years | | 809,310 | 809,310 |
| Rates Levied this year | 35,568,000 | | 35,568,000 |
| Refuse Levied | 6,042,488 | | 6,042,488 |
| ESL Levied | 3,069,978 | | 3,069,978 |
| Other Charges Levied | 487,741 | | 487,741 |
| <u>Less</u> Collections to date | (44,445,434) | (544,479) | (44,989,913) |
| Equals Current Outstanding | 722,773 | 264,831 | 987,604 |
| Total Rates & Charges Collectable | | | 987,604 |
| % Collected | | | 97.85% |

Receivables - General

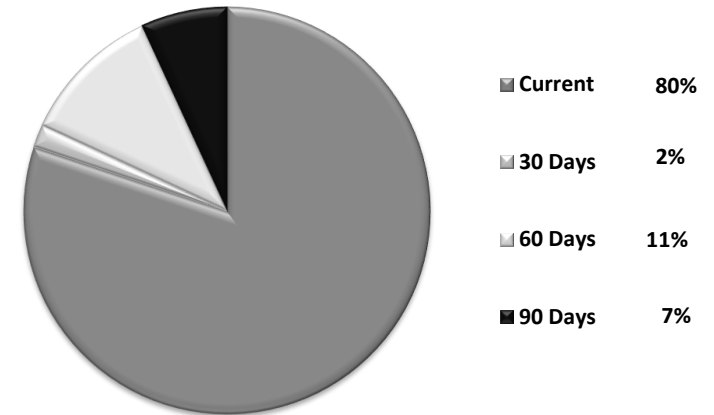
| | Current | 30 Days | 60 Days | 90 Days |
|--------------------------|----------------|----------------|----------------|------------------|
| | \$ | \$ | \$ | \$ |
| | 862,340 | 19,604 | 121,185 | 73,663 |
| Total Outstanding | | | | 1,076,793 |

Amounts shown above include GST (where applicable)

Note 4 - Rates & Refuse % Collected



Note 4 - Accounts Receivable (non-rates)



Comments/Notes - Receivables Rates and Refuse

Comments/Notes - Receivables General

Interim Accounts. Pending Audit.

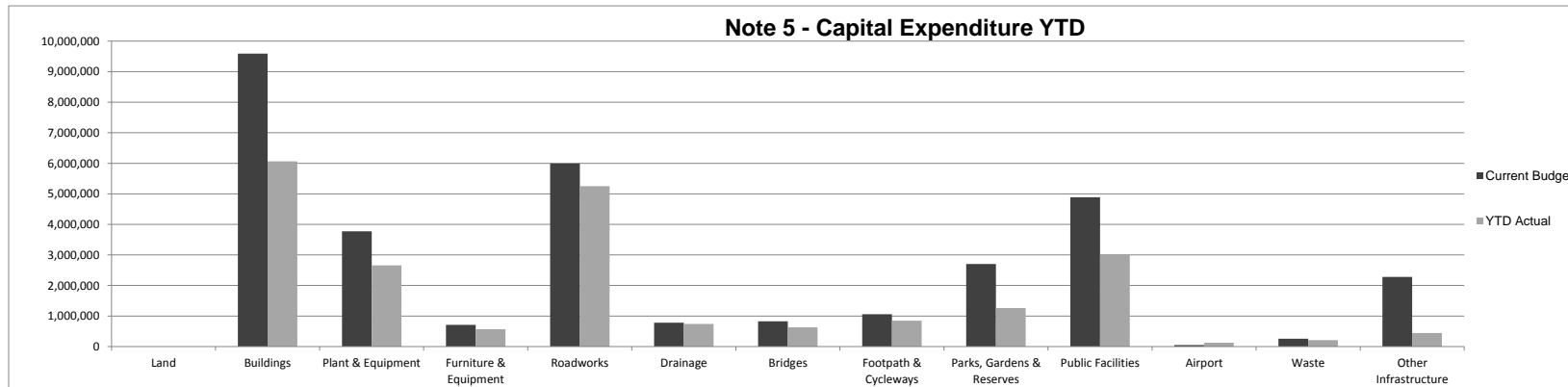
City of Albany
 NOTES TO THE STATEMENT OF FINANCIAL ACTIVITY
 For the Period Ended 30th June 2018

Note 5: CAPITAL ACQUISITIONS

| Contributions Information | | | | | Summary Acquisitions | Original Budget | Current Budget | YTD Budget | Actual | Variance |
|---------------------------|------------------|------------------|------------|-------------------|--|-------------------|-------------------|-------------------|-------------------|---------------------|
| Grants | Reserves | Borrowing | Restricted | Total | | \$ | \$ | \$ | \$ | \$ |
| \$ | \$ | \$ | | \$ | Property, Plant & Equipment | | | | | |
| 0 | 0 | 0 | 0 | 0 | Land | 0 | 0 | 0 | 0 | 0 |
| 1,327,500 | 770,000 | 1,000,000 | 0 | 3,097,500 | Buildings | 7,969,596 | 9,590,697 | 9,590,697 | 6,060,816 | (3,529,881) ▼ |
| 50,000 | 0 | 0 | 0 | 50,000 | Plant & Equipment | 3,468,782 | 3,770,582 | 3,770,582 | 2,655,982 | (1,114,600) ▼ |
| 0 | 0 | 0 | 0 | 0 | Furniture & Equipment | 636,900 | 711,900 | 711,900 | 570,695 | (141,205) ▼ |
| | | | | | Infrastructure | | | | | |
| 1,500,000 | 200,000 | 0 | 0 | 1,700,000 | Roadworks | 5,676,799 | 5,993,349 | 5,993,349 | 5,252,568 | (740,782) ▼ |
| 0 | 0 | 0 | 0 | 0 | Drainage | 781,000 | 781,000 | 781,000 | 742,479 | (38,521) ▼ |
| 825,000 | 0 | 0 | 0 | 825,000 | Bridges | 824,734 | 824,734 | 824,734 | 630,000 | (194,734) ▼ |
| 20,000 | 0 | 0 | 0 | 20,000 | Footpath & Cycleways | 1,065,482 | 1,058,482 | 1,058,482 | 845,848 | (212,634) ▼ |
| 605,700 | 483,300 | 0 | 0 | 1,089,000 | Parks, Gardens & Reserves | 2,414,314 | 2,705,131 | 2,705,131 | 1,259,798 | (1,445,333) ▼ |
| 13,035,092 | 467,820 | 500,000 | 0 | 14,002,912 | Public Facilities | 1,362,092 | 4,889,843 | 4,889,843 | 3,022,222 | (1,867,621) ▼ |
| 0 | 0 | 0 | 0 | 0 | Airport | 50,000 | 50,000 | 50,000 | 127,720 | 77,720 ▲ |
| 0 | 273,286 | 0 | 0 | 273,286 | Waste | 273,286 | 257,877 | 257,877 | 212,395 | (45,482) ▼ |
| 0 | 0 | 0 | 0 | 0 | Other Infrastructure | 368,241 | 2,279,631 | 2,279,631 | 444,163 | (1,835,468) ▼ |
| 17,363,292 | 2,194,406 | 1,500,000 | 0 | 21,057,698 | Totals | 24,891,226 | 32,913,226 | 32,913,226 | 21,824,685 | (11,088,541) |

Comments - Capital Acquisitions

Significant Carried Forward items: Buildings Town Hall - \$2.8 mill, Mercer Rd refit - \$400 000.
 As at report compilation date: Roadworks Total per Note 15 2018/19 Budget - \$969 000
 Parks Alison Hartman Gardens - \$650 000
 Other Emu Point Boat Pens - \$1.8 mill.
 Public Facil. Centennial Park upgrade - \$1.95 mill.
 Further detail for all areas in note 15 - 2018/19 Budget.



TRUST CHEQUES AND ELECTRONICS FUNDS TRANSFER PAYMENTS

TRUST PAYMENTS

| Date | Name | Description | Amount |
|------|------|--------------|--------|
| | | Total | \$ - |

MASTERCARD TRANSACTIONS - JUNE 2018

| Date | Payee | Description | Amount |
|------------|------------------------------|---|--------------|
| 31/05/2018 | Mercure Hotel Sydney | Accommodation - M Richardson - Waste Strategy Summit | \$ 522.90 |
| 31/05/2018 | Quest Events Pty Ltd | Attendance Fees - M Richardson - Waste Strategy Summit | \$ 1,595.00 |
| 1/06/2018 | Virgin Australia | Flights - M Richardson - Waste Strategy Summit | \$ 620.00 |
| 26/06/2018 | Remix Summits | Culture Tech And Entrepreneurship Tickets - N Walker And A McEwan | \$ 680.40 |
| 29/05/2018 | Main Roads WA | Training - Online IPWEA - A Millar | \$ 385.00 |
| 29/05/2018 | Caltex | Fuel Supplies - Fire Trucks | \$ 281.10 |
| 13/06/2018 | The Institute of Engineering | Memberships - Engineers Australia - A Millar | \$ 661.00 |
| 5/06/2018 | Mailchimp | A Sharpe - Monthly Subscription Charges - Y Welsh | \$ 200.10 |
| 7/06/2018 | Regional Express | Flights - Workers Compensation Reimbursement From LGIS | \$ 427.60 |
| 12/06/2018 | Regional Express | Flights - A Sharpe - Various Perth Meetings | \$ 405.12 |
| 15/06/2018 | Qantas | Flights - Councillor Moir - RCAWA Meeting Kalgoorlie | \$ 1,114.31 |
| 16/06/2018 | Virgin Australia | Flights - A Sharpe - RCAWA Meeting Kalgoorlie - Reimbursed | \$ 684.00 |
| 11/06/2018 | Swiftype.com | Monthly Website Fee - Albany Visitors Centre - H Fell | \$ 328.24 |
| 12/06/2018 | Regional Express | Flights - LG Professionals Board Meeting - M Cole | \$ 202.76 |
| 14/06/2018 | Blue Seas Resort | Accommodation - Airport Australia Meeting - S Jamieson | \$ 495.00 |
| 14/06/2018 | Blue Seas Resort | Accommodation - Airport Australia Meeting - A Page | \$ 495.00 |
| 21/06/2018 | Regional Express | Flights - Workplace Investigation - OHS | \$ 450.08 |
| 7/06/2018 | Regional Express | Flights - Leisure Institute State Conference - G Pollett And D Tidboald | \$ 526.94 |
| 8/06/2018 | Regional Express | Flights - Parks Leisure State Conference - Want, Stevens, Green | \$ 1,485.18 |
| 10/06/2018 | Virgin Australia | Flights - Library And Information Conference 2018 - P Nielsen | \$ 719.99 |
| 10/06/2018 | Novotel Surfers Paradise | Accommodation - Library And Information Conference 2018 - P Nielsen | \$ 340.20 |
| 22/06/2018 | Esplanade Hotel | Accommodation - Parks Leisure State Conference - J Want | \$ 323.46 |
| 22/06/2018 | Esplanade Hotel | Accommodation - Parks Leisure State Conference - S Stevens | \$ 363.89 |
| 22/06/2018 | Esplanade Hotel | Accommodation - Parks Leisure State Conference - M Green | \$ 354.29 |
| 8/06/2018 | Cashflow Mana | Accommodation - Cr Moir - Power Forum Collie | \$ 340.00 |
| 14/06/2018 | Regional Express | Flights - Cr Moir - RCAWA Meeting Kalgoorlie | \$ 334.30 |
| 15/06/2018 | Rydges Kalgoorlie | Accommodation - Cr Moir - RACWA Meeting Kalgoorlie | \$ 322.45 |
| | | SUNDRY < \$ 200.00 | \$ 1,000.34 |
| | | Total | \$ 15,658.65 |

PAYROLL 16/06/2018 - 15/07/2018

| Date | Description | Amount |
|------------|--------------|-----------------|
| 21/06/2018 | COA Salaries | \$ 635,694.03 |
| 22/06/2018 | COA Salaries | \$ 2,128.32 |
| 25/06/2018 | COA Salaries | \$ 351.76 |
| 02/07/2018 | COA Salaries | \$ 206.47 |
| 05/07/2018 | COA Salaries | \$ 638,048.80 |
| 10/07/2018 | COA Salaries | \$ 3,642.20 |
| 12/07/2018 | COA Salaries | \$ 516.62 |
| | Total | \$ 1,280,588.20 |

REPORT ITEM CCS 070 REFERS

| Chq | Date | Name | Description | Amount |
|--------------|------------|---|---|----------------------|
| 32046 | 21/06/2018 | B & W CARMAN | Crossover Subsidy | \$ 211.55 |
| 32047 | 21/06/2018 | T KORTHUIS | Volunteer Fire Brigade Reimbursement | \$ 57.50 |
| 32049 | 21/06/2018 | DEPARTMENT OF TRANSPORT | Emu Point Boat Pen Relocation - Vessel Accommodation | \$ 22,001.20 |
| 32051 | 21/06/2018 | PETTY CASH | Petty Cash | \$ 2,709.40 |
| 32052 | 21/06/2018 | TELSTRA CORPORATION LIMITED | Telephone Charges | \$ 19,219.24 |
| 32053 | 21/06/2018 | WATER CORPORATION | Water Charges | \$ 2,723.77 |
| 32054 | 28/06/2018 | D & T WILLISS | Crossover Subsidy | \$ 193.89 |
| 32055 | 28/06/2018 | J & K GREER | Crossover Subsidy | \$ 126.15 |
| 32056 | 28/06/2018 | ROSEMARIE PATAKY | Merchandise Order - Forts Store | \$ 75.00 |
| 32057 | 28/06/2018 | CHESTERPASS LUNCH BAR | Catering - May Fires | \$ 833.50 |
| 32058 | 28/06/2018 | DEPARTMENT OF TRANSPORT | Vehicle Registrations 2018/2019 | \$ 31,663.80 |
| 32059 | 28/06/2018 | GILES CONRAD WATSON | VAC Tree Project Audio Recording | \$ 300.00 |
| 32060 | 28/06/2018 | PETTY CASH | Petty Cash | \$ 2,160.00 |
| 32061 | 28/06/2018 | TELSTRA CORPORATION LIMITED | Telephone Charges | \$ 9,791.10 |
| 32062 | 28/06/2018 | WATER CORPORATION | Water Charges | \$ 757.78 |
| 32063 | 05/07/2018 | K POWELL | Crossover Subsidy | \$ 182.11 |
| 32064 | 05/07/2018 | CANDOR TRAINING AND CONSULTANCY | Sporting Clubs And Community Groups Difficult People Workshop | \$ 1,650.00 |
| 32065 | 05/07/2018 | DEPARTMENT OF TRANSPORT | Emu Point Boat Pen Relocation - Vessel Accommodation | \$ 16,100.00 |
| 32066 | 05/07/2018 | PIVOTEL SATELLITE PTY LIMITED | Satellite Phone Charges | \$ 248.00 |
| 32067 | 05/07/2018 | TELSTRA CORPORATION LIMITED | Asset Relocation - Albany Highway And Johnston Street | \$ 8,722.87 |
| 32068 | 05/07/2018 | A WISNIEWSKI | Refund | \$ 24.00 |
| 32069 | 12/07/2018 | G VASILIU | Crossover Subsidy | \$ 167.38 |
| 32070 | 12/07/2018 | J CLAYTON | Crossover Subsidy | \$ 288.12 |
| 32072 | 12/07/2018 | PIVOTEL SATELLITE PTY LIMITED | Satellite Phone Charges | \$ 300.00 |
| 32073 | 12/07/2018 | THE FEDERATION OF WA POLICE & COMMUNITY YOUTH CENTRES | Kid Sport Subsidy | \$ 495.00 |
| 32074 | 12/07/2018 | WATER CORPORATION | Water Charges | \$ 13,429.64 |
| 32075 | 12/07/2018 | THE WEST AUSTRALIAN | Newspaper Deliveries | \$ 357.59 |
| Total | | | | \$ 134,788.59 |

REPORT ITEM CCS 070 REFERS

| EFT | Date | Name | Description | Amount |
|-----------|------------|---|---|---------------|
| EFT126296 | 21/06/2018 | ABA SECURITY | Security Services - Alarm System Monitoring | \$ 566.21 |
| EFT126297 | 21/06/2018 | AD CONTRACTORS PTY LTD | Return Of Retention Held - C16017 | \$ 29,853.17 |
| EFT126298 | 21/06/2018 | D ADELINE | Staff Reimbursement | \$ 89.95 |
| EFT126299 | 21/06/2018 | AECOM AUSTRALIA PTY LTD | Professional Services - Middleton Beach Foreshore Management Plan | \$ 5,390.00 |
| EFT126300 | 21/06/2018 | ALBANY HYDRAULICS | Material Supply - Couplings | \$ 244.98 |
| EFT126301 | 21/06/2018 | ALBANY INDUSTRIAL SERVICES PTY LTD | Equipment Hire - C17015/C16012 | \$ 2,267.10 |
| EFT126302 | 21/06/2018 | ALBANY V-BELT AND RUBBER | Material Supply - Fittings And Filters | \$ 704.22 |
| EFT126303 | 21/06/2018 | ALBANY CHAMBER OF COMMERCE AND INDUSTRY | Directory Advertising - 2019 | \$ 439.50 |
| EFT126304 | 21/06/2018 | ALBANY RETRAVISION | Material Supply - Bluetooth System | \$ 396.00 |
| EFT126305 | 21/06/2018 | ALBANY POWDER COATERS | Shelving Powdercoat - Library | \$ 654.50 |
| EFT126306 | 21/06/2018 | TRICOAST CIVIL | Professional Services - Sanford Road Location And Survey | \$ 27,399.66 |
| EFT126307 | 21/06/2018 | ALBANY RSL SUB BRANCH | Merchandise Order - Forts Store | \$ 976.00 |
| EFT126308 | 21/06/2018 | ALBANY AUTO ONE | Material Supply - Car Stereo | \$ 139.00 |
| EFT126309 | 21/06/2018 | ALBANY RETICULATION & LANDSCAPING | Refund | \$ 81.10 |
| EFT126310 | 21/06/2018 | ALBANY SKIPS AND WASTE SERVICES PTY LTD | Skip Bin Hire - Depot | \$ 903.75 |
| EFT126311 | 21/06/2018 | ALBANY OFFICE PRODUCTS DEPOT | Stationery Suppliers - Various | \$ 409.35 |
| EFT126312 | 21/06/2018 | ALBANY MILK DISTRIBUTORS | Milk Deliveries | \$ 94.32 |
| EFT126313 | 21/06/2018 | ALBANY JUNIOR SOCCER ASSOCIATION | Kid Sport Subsidy | \$ 575.00 |
| EFT126314 | 21/06/2018 | ALBANY IRRIGATION & DRILLING | Irrigation Supplies - Bakers Junction | \$ 5,199.80 |
| EFT126315 | 21/06/2018 | ALBANY RECORDS MANAGEMENT | Archive Storage - Records | \$ 277.15 |
| EFT126316 | 21/06/2018 | ALBANY DOMESTIC SERVICES | Cleaning Services - Animal Waste | \$ 160.00 |
| EFT126317 | 21/06/2018 | ALL EVENTS HIRE AND PRODUCTION | Material Supply - Gaffer Tape | \$ 323.40 |
| EFT126318 | 21/06/2018 | ARTISAN SOAP WORKS | Merchandise Order - Visitor Centre | \$ 309.75 |
| EFT126319 | 21/06/2018 | ATC WORK SMART | Casual Staff/Apprentice Fees | \$ 20,908.20 |
| EFT126320 | 21/06/2018 | AUDIOCOM ALBANY | Material Supply - Phone Case | \$ 95.00 |
| EFT126321 | 21/06/2018 | AURORA ENVIRONMENTAL ALBANY | Professional Services - C17031 | \$ 2,552.00 |
| EFT126322 | 21/06/2018 | BALL BODY BUILDERS | Material Supply - Bracket | \$ 61.60 |
| EFT126323 | 21/06/2018 | BENNETTS BATTERIES | Material Supply - Oil | \$ 1,892.00 |
| EFT126324 | 21/06/2018 | ADVANCED TRAFFIC MANAGEMENT WA PTY LTD | Traffic Control Services - C17014 | \$ 8,216.45 |
| EFT126325 | 21/06/2018 | BERTOLA HIRE ALBANY PTY LTD | Equipment Hire - Excavator | \$ 257.40 |
| EFT126326 | 21/06/2018 | BERG CONTRACTING SERVICES | Professional Services - Asbestos Removal | \$ 506.00 |
| EFT126327 | 21/06/2018 | BEST OFFICE SYSTEMS | Printer Ink Supply | \$ 95.00 |
| EFT126328 | 21/06/2018 | BIO DIVERSE SOLUTIONS | Airport Wildlife Hazard Management Plan | \$ 7,652.70 |
| EFT126329 | 21/06/2018 | J. BLACKWOOD & SON PTY LTD | Material Supply - Danger Tags And Gloves | \$ 107.39 |
| EFT126330 | 21/06/2018 | BMT WESTERN AUSTRALIAN PTY LTD | Instrument Hire - Emu Point/Middleton Beach | \$ 5,044.14 |
| EFT126331 | 21/06/2018 | ALBANY BOBCAT SERVICES | Equipment Hire - C16012 | \$ 3,786.75 |
| EFT126332 | 21/06/2018 | BOC GASES AUSTRALIA LIMITED | Container Service Rental | \$ 143.64 |
| EFT126333 | 21/06/2018 | BUNNINGS GROUP LIMITED | Hardware And Tool Supplies - Various | \$ 340.05 |
| EFT126334 | 21/06/2018 | BURGTEC AUSTRALASIA PTY LTD | Furniture Supply - Library | \$ 402.60 |
| EFT126335 | 21/06/2018 | BUSBY INVESTMENTS PTY LTD | Car Hire - Western Power Hackathon | \$ 345.32 |
| EFT126336 | 21/06/2018 | C&C MACHINERY CENTRE | Material Supply - Hammers, Fan, Mirror Arm | \$ 3,601.09 |
| EFT126337 | 21/06/2018 | CALTEX AUSTRALIA PETROLEUM PTY LTD | Fuel Purchases - Depot | \$ 26,554.39 |
| EFT126338 | 21/06/2018 | CAMERON CARAVANS | Material Supply - Handle | \$ 8.50 |
| EFT126339 | 21/06/2018 | JOHN CARBERRY | Professional Services - Vancouver Street Festival | \$ 1,900.00 |
| EFT126340 | 21/06/2018 | MF CARPENTER | Refund | \$ 47.52 |
| EFT126341 | 21/06/2018 | J & S CASTLEHOW ELECTRICAL SERVICES | Electrical Services - C15026 | \$ 248,075.30 |
| EFT126342 | 21/06/2018 | CENTIGRADE SERVICES PTY LTD | ALAC Repairs And Maintenance - Q18016 | \$ 439.73 |
| EFT126343 | 21/06/2018 | CHILDREN'S BOOK COUNCIL OF AUSTRALIA | Merchandise Order - Library | \$ 245.50 |
| EFT126344 | 21/06/2018 | CLEANAWAY PTY LIMITED | Rubbish Removal - P14021 | \$ 3,400.98 |
| EFT126345 | 21/06/2018 | COATES HIRE OPERATIONS PTY LIMITED | Office Donga Hire - Rangers | \$ 303.39 |

REPORT ITEM CCS 070 REFERS

| | | | |
|-----------|---|---|--------------|
| EFT126346 | 21/06/2018 SUE CODEE | Merchandise Order - Forts Store | \$ 767.00 |
| EFT126347 | 21/06/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD | Grocery Supplies | \$ 90.92 |
| EFT126348 | 21/06/2018 COMFORT INN BAY OF ISLES | Accommodation And Meals - Staff Plant Inspection | \$ 874.00 |
| EFT126349 | 21/06/2018 COURIER AUSTRALIA | Freight Charges | \$ 440.84 |
| EFT126350 | 21/06/2018 CREATIVE LANDSCAPES | Playground Equipment - Milpara Park | \$ 9,567.00 |
| EFT126351 | 21/06/2018 HOLCIM (AUSTRALIA) PTY LTD | Concrete Supplies - C16010 | \$ 748.88 |
| EFT126352 | 21/06/2018 AL CURNOW HYDRAULICS | Repairs And Maintenance - Repair Crane Boom | \$ 2,610.41 |
| EFT126353 | 21/06/2018 METATECH INTERNET PTY LTD | Cynergic Web Hosting Charges (May 2018) | \$ 1,819.80 |
| EFT126354 | 21/06/2018 DATA #3 LIMITED | Subscriptions - Storagecraft | \$ 5,836.17 |
| EFT126355 | 21/06/2018 CGS QUALITY CLEANING | Cleaning Services - C14036 | \$ 44,780.54 |
| EFT126356 | 21/06/2018 DELL FINANCIAL SERVICES PTY LTD | IT Equipment - Disk | \$ 2,889.37 |
| EFT126357 | 21/06/2018 LANDGATE | GRV Interim Valuation | \$ 4,522.38 |
| EFT126358 | 21/06/2018 DEPARTMENT OF TRANSPORT | Emu Point Boat Harbour - Seabed Rental | \$ 2,240.70 |
| EFT126359 | 21/06/2018 DESIGNER DIRT PTY LTD | Merchandise Order - Forts Store | \$ 220.00 |
| EFT126360 | 21/06/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY | Cleaning Services - Q16024 | \$ 1,201.69 |
| EFT126361 | 21/06/2018 DISTINCTLY TOURISM MANAGEMENT | Field Of Light Product Development | \$ 4,125.00 |
| EFT126362 | 21/06/2018 DI'S LUNCH BAR | Catering - Men's Health Week | \$ 200.20 |
| EFT126363 | 21/06/2018 SANDRA DIXON | Professional Services - EAP | \$ 150.00 |
| EFT126364 | 21/06/2018 RICCI DRAPER | Cleaning Services - Centennial Stadium | \$ 20.00 |
| EFT126365 | 21/06/2018 DS AGENCIES | Various Supplies - Steel Frame, Seating, Bollards | \$ 31,768.00 |
| EFT126366 | 21/06/2018 DYLAN'S ON THE TERRACE | Catering - Various | \$ 2,170.00 |
| EFT126367 | 21/06/2018 ELDERS LIMITED | Material Supply - Fertiliser | \$ 2,496.49 |
| EFT126368 | 21/06/2018 ELLEKER GENERAL STORE | Fuel And Food Supplies - Fire Brigades | \$ 2,051.92 |
| EFT126369 | 21/06/2018 ESRI AUSTRALIA PTY LTD | Subscription - Drone Map | \$ 2,981.00 |
| EFT126370 | 21/06/2018 E-STRALIAN PTY LTD | E-Bike Lease | \$ 182.18 |
| EFT126371 | 21/06/2018 EXECUTIVE MEDIA PTY LTD | Advertising - Caravanning Australia | \$ 2,400.00 |
| EFT126372 | 21/06/2018 THE FIXUPPERY | Cleaning Services - Airport | \$ 940.00 |
| EFT126373 | 21/06/2018 BILL GIBBS EXCAVATIONS | Plant Hire - C16012 | \$ 45,172.88 |
| EFT126374 | 21/06/2018 GLOBAL MARINE ENCLOSURES PTY LTD | Repairs And Maintenance - Ellen Cove Swimming Enclosure | \$ 4,138.20 |
| EFT126375 | 21/06/2018 GREEN SKILLS INCORPORATED | Advanced Trees - Q18021 | \$ 5,495.71 |
| EFT126376 | 21/06/2018 GREAT SOUTHERN PEST & WEED CONTROL | Pest Control Services Q17027 | \$ 1,232.00 |
| EFT126377 | 21/06/2018 GREAT SOUTHERN SAND AND LANDSCAPING SUPPLIES | Equipment Hire - C10612 | \$ 85,420.39 |
| EFT126378 | 21/06/2018 GREAT SOUTHERN SUPPLIES | Paper Supplies - Q17008 | \$ 6,425.42 |
| EFT126379 | 21/06/2018 GREYBIRD MEDIA | Advertising - Vancouver Street Festival | \$ 286.00 |
| EFT126380 | 21/06/2018 GHD PTY LTD | Geotechnical Investigation - Down Road | \$ 1,320.00 |
| EFT126381 | 21/06/2018 HARVEY NORMAN ALBANY | Minor Asset Purchase - Fridge And Microwave | \$ 1,070.00 |
| EFT126382 | 21/06/2018 HAVOC BUILDERS PTY LTD | Building Services - C17028 | \$ 29,910.24 |
| EFT126383 | 21/06/2018 HELEN LEEDER-CARLSON | Art Classes - VAC Workshops | \$ 240.00 |
| EFT126384 | 21/06/2018 HHG LEGAL GROUP | Legal Services - C16011 | \$ 1,540.00 |
| EFT126385 | 21/06/2018 HUDSON SEWAGE SERVICES | Waste Services - Airport | \$ 373.00 |
| EFT126386 | 21/06/2018 HUMES WEMBLEY CEMENT | Concrete Supplies - C16010 | \$ 8,774.87 |
| EFT126387 | 21/06/2018 STATEWIDE RACKING & STORAGE SOLUTIONS | Racking Supplies - Depot | \$ 189.00 |
| EFT126388 | 21/06/2018 ISENTIA PTY LTD | Media Subscriptions | \$ 1,935.45 |
| EFT126389 | 21/06/2018 ITOMIC WEB SPECIALISTS | Website Renewal - Amazing Albany | \$ 745.00 |
| EFT126390 | 21/06/2018 JACK THE CHIPPER | Vegetation Maintenance - C17022 | \$ 762.30 |
| EFT126391 | 21/06/2018 JOHN KINNEAR AND ASSOCIATES | Survey Services - C16016 | \$ 8,415.00 |
| EFT126392 | 21/06/2018 KIM ANGELA TOMLINSON | Professional Services - EAP | \$ 420.00 |
| EFT126393 | 21/06/2018 KLB SYSTEMS | IT Supplies - Barcode Scanner | \$ 2,711.50 |
| EFT126394 | 21/06/2018 A KOROLUK-STEPHENSON | Refund | \$ 99.00 |
| EFT126395 | 21/06/2018 KOSTER'S STEEL CONSTRUCTION PTY LTD | Repairs And Maintenance - Depot Mechanics Workshop | \$ 2,500.00 |
| EFT126396 | 21/06/2018 LA FREEGARD | Fencing Services - Lake Warburton | \$ 13,730.00 |
| EFT126397 | 21/06/2018 GA LACERENZA | Refund | \$ 30.80 |

REPORT ITEM CCS 070 REFERS

| | | | | |
|-----------|--|---|----|------------|
| EFT126398 | 21/06/2018 LADELLE PTY LTD | Merchandise Order - Forts Store | \$ | 3,368.48 |
| EFT126399 | 21/06/2018 LEASEIT LIMITED | Photocopier Lease May 2018 | \$ | 1,094.50 |
| EFT126400 | 21/06/2018 LEEDERVILLE CAMERAS | Material Supply - Photo Studio And Lighting Kit | \$ | 495.55 |
| EFT126401 | 21/06/2018 EMMA KATHLEEN LEGGETT | Performance - Far Fetched | \$ | 295.30 |
| EFT126402 | 21/06/2018 LGIS RISK MANAGEMENT | Staff Training - Risk And Governance | \$ | 165.00 |
| EFT126403 | 21/06/2018 LOCHNESS LANDSCAPE SERVICES | Lawn Mowing Services - C16008 | \$ | 8,900.80 |
| EFT126404 | 21/06/2018 M AND B SALES PTY LTD | Material Supply - PLY | \$ | 425.34 |
| EFT126405 | 21/06/2018 ALBANY CITY MOTORS | Materials Supply - Condenser And Key | \$ | 1,112.43 |
| EFT126406 | 21/06/2018 MCGUFFIE TILT TRAY HIRE | Sea Container Transportation | \$ | 126.50 |
| EFT126407 | 21/06/2018 DAVID KENNETH MCKENZIE | Professional Services - Arts Research Project | \$ | 2,000.00 |
| EFT126408 | 21/06/2018 MCLEODS | Legal Services - SAT Claim | \$ | 27,429.91 |
| EFT126409 | 21/06/2018 METROLL ALBANY | Material Supply - Tin And Screws | \$ | 686.70 |
| EFT126410 | 21/06/2018 MODERN MOULDINGS | Material Supply - Large Airport Cones | \$ | 5,345.70 |
| EFT126411 | 21/06/2018 ANTHONY MOIR | Councillor Reimbursement | \$ | 314.00 |
| EFT126412 | 21/06/2018 MOSTERT, DJ & H | Merchandise Order - Visitor Centre | \$ | 120.00 |
| EFT126413 | 21/06/2018 MOUNT ROMANCE AUSTRALIA PTY LTD | Merchandise Order - Forts Store | \$ | 1,601.28 |
| EFT126414 | 21/06/2018 NEC AUSTRALIA PTY LTD | Repairs And Maintenance - Touchpoint Reprogram | \$ | 352.00 |
| EFT126415 | 21/06/2018 NEVILLES HARDWARE & BUILDING SUPPLIES | Material Supply - Various | \$ | 411.75 |
| EFT126416 | 21/06/2018 NEW SOUTH BOOKS | Merchandise Order - Forts Store | \$ | 743.02 |
| EFT126417 | 21/06/2018 P NIELSEN | Staff Reimbursement | \$ | 80.35 |
| EFT126418 | 21/06/2018 NORDIC FITNESS EQUIPMENT | Cleaning Supplies - Gym | \$ | 557.92 |
| EFT126419 | 21/06/2018 OCS SERVICES PTY LTD | Cleaning Services - C15015 | \$ | 1,520.38 |
| EFT126420 | 21/06/2018 OFFICEWORKS SUPERSTORES PTY LTD | IT Supplies - iTunes Voucher | \$ | 40.00 |
| EFT126421 | 21/06/2018 IXOM | Material Supply - Chlorine | \$ | 174.25 |
| EFT126422 | 21/06/2018 ORIGIN ENERGY | Gas Usage | \$ | 9,185.15 |
| EFT126423 | 21/06/2018 OYSTER HARBOUR STORE | Refreshments - Hanrahan Tip | \$ | 97.99 |
| EFT126424 | 21/06/2018 OYSTER HARBOUR LANDSCAPE SUPPLIES | Advanced Trees - Q18021 | \$ | 4,400.00 |
| EFT126425 | 21/06/2018 PALMER CIVIL CONSTRUCTION | Millbrook Road - C16021 | \$ | 17,428.36 |
| EFT126426 | 21/06/2018 PAULS PET FOOD | Material Supply - Dog Food | \$ | 144.00 |
| EFT126427 | 21/06/2018 AUSTRALASIAN PERFORMING RIGHT ASSOCIATION LIMITED | Background Music Licence Fee | \$ | 1,023.71 |
| EFT126428 | 21/06/2018 PERTH THEATRE TRUST | Albany Arts Festival Sponsorship | \$ | 5,500.00 |
| EFT126429 | 21/06/2018 PERTH SAFETY PRODUCTS PTY LTD | Signage - Cruise Ships | \$ | 1,056.00 |
| EFT126430 | 21/06/2018 PFD FOOD SERVICES PTY LTD | Office Supplies - Refreshments | \$ | 501.45 |
| EFT126431 | 21/06/2018 FULTON HOGAN INDUSTRIES | Professional Services - P17021 | \$ | 211,360.71 |
| EFT126432 | 21/06/2018 4 STEEL SUPPLIES | Material Supply - Steel | \$ | 734.58 |
| EFT126433 | 21/06/2018 ALBANY PLUMBING AND GAS | Plumbing Services - C17020 | \$ | 17,458.43 |
| EFT126434 | 21/06/2018 PORTNER PRESS PTY LTD | Handbook - Employment Law | \$ | 970.00 |
| EFT126435 | 21/06/2018 PRATT TRANSPORT LOGISTICS | Equipment Hire - May Fires | \$ | 10,318.00 |
| EFT126436 | 21/06/2018 PRECISION HEARING | Staff Hearing Tests | \$ | 968.00 |
| EFT126437 | 21/06/2018 PRE-EMPTIVE STRIKE PTY LTD | Active Albany Winter School Holiday Program - Graphic Design Work | \$ | 363.00 |
| EFT126438 | 21/06/2018 PROJECT3 PTY LTD | Anzac Albany Festival And Convoy Campout - Final Milestone | \$ | 5,605.00 |
| EFT126439 | 21/06/2018 QUALITY PUBLISHING AUSTRALIA | Merchandise Order - Visitor Centre | \$ | 102.96 |
| EFT126440 | 21/06/2018 MATTHEW ARTHUR QUICKE | Professional Services - Vancouver Street Festival | \$ | 300.00 |
| EFT126441 | 21/06/2018 RAECO INTERNATIONAL PTY LTD | Library Book Supplies - Cover And Due Date Slips | \$ | 574.89 |
| EFT126442 | 21/06/2018 DAVID RASTRICK | Jazz Sessions - VAC Emerging Artists | \$ | 2,000.00 |
| EFT126443 | 21/06/2018 REDMAN SOLUTIONS PTY LTD | Archive Manager Annual Support - 2018/2019 | \$ | 4,827.90 |
| EFT126444 | 21/06/2018 REECE PTY LTD | Material Supply - Pipes | \$ | 123.17 |
| EFT126445 | 21/06/2018 REPLICAS MEDALS & RIBBONS PTY LTD | Merchandise Order - Forts Store | \$ | 885.56 |
| EFT126446 | 21/06/2018 REPLAS WA | Material Supply - Bollards | \$ | 10,804.12 |
| EFT126447 | 21/06/2018 RICOH | Photocopier Charges - March, April And May 2018 | \$ | 22,559.91 |
| EFT126448 | 21/06/2018 ROLSH PRODUCTIONS | Merchandise Order - Forts Store | \$ | 810.32 |
| EFT126449 | 21/06/2018 SAHARA BELLY DANCE | Performance - Vancouver Street Festival | \$ | 150.00 |

REPORT ITEM CCS 070 REFERS

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|-----------|--|---|----|------------|
| EFT126450 | 21/06/2018 C ROTOFF | Staff Reimbursement | \$ | 60.00 |
| EFT126451 | 21/06/2018 ALBANY ROVERS SOCCER CLUB | Kid Sport Subsidy | \$ | 1,005.00 |
| EFT126452 | 21/06/2018 HASKONING AUSTRALIA PTY LTD | Surf Reef Feasibility | \$ | 32,857.00 |
| EFT126453 | 21/06/2018 SCRIBE PUBLICATIONS PTY LTD | Merchandise Order - Forts Store | \$ | 695.83 |
| EFT126454 | 21/06/2018 MC SHARP | Refund | \$ | 431.48 |
| EFT126455 | 21/06/2018 G & L SHEETMETAL | Repairs And Maintenance - Heritage Phone Box | \$ | 1,078.00 |
| EFT126456 | 21/06/2018 SIGMA CHEMICALS | Chemical Supplies - ALAC | \$ | 1,916.75 |
| EFT126457 | 21/06/2018 SKILL HIRE WA PTY LTD | Casual Staff/Apprentice Fees | \$ | 9,230.37 |
| EFT126458 | 21/06/2018 SOIL SOLUTIONS PTY LTD | Greenwaste Processing - C12008 | \$ | 37,620.74 |
| EFT126459 | 21/06/2018 SOS SWITCHED ON TO SAFETY | Chemwatch Licence Fee - OHS | \$ | 3,190.00 |
| EFT126460 | 21/06/2018 SOUTHERN TOOL AND FASTENER CO | Hardware And Tool Supplies - Various | \$ | 378.80 |
| EFT126461 | 21/06/2018 SOUTHERN DISTRICTS JUNIOR FOOTBALL ASSOCIATION | Kid Sport Subsidy | \$ | 910.00 |
| EFT126462 | 21/06/2018 SOUTHERN EDGE ARTS INC | Professional Services - School Holiday Arts And Masterclasses | \$ | 2,165.00 |
| EFT126463 | 21/06/2018 STATEWIDE BUILDING CERTIFICATION WA | Design Compliance Certificate - Field Of Lights | \$ | 395.00 |
| EFT126464 | 21/06/2018 STEWART AND HEATON CLOTHING PTY LTD | Uniform Supplies - Fire Brigades | \$ | 1,779.61 |
| EFT126465 | 21/06/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD | First Aid Kit Servicing | \$ | 714.00 |
| EFT126466 | 21/06/2018 SUBWAY | Food Supplies - May Fires | \$ | 1,353.00 |
| EFT126467 | 21/06/2018 ALBANY LOCK SERVICE | Key Supplies - C14003 | \$ | 11,530.05 |
| EFT126468 | 21/06/2018 SWINBURNE UNIVERSITY OF TECHNOLOGY | Diploma Of Human Resources Management - D Waugh | \$ | 2,400.00 |
| EFT126469 | 21/06/2018 PRACSYS MANAGEMENT SYSTEMS | Economic Development Plan - Lower Great Southern Alliance | \$ | 1,969.00 |
| EFT126470 | 21/06/2018 T & C SUPPLIES | Hardware And Tool Supplies - Various | \$ | 980.48 |
| EFT126471 | 21/06/2018 THE 12 VOLT WORLD | Material Supply - Alternator | \$ | 400.00 |
| EFT126472 | 21/06/2018 THINKWATER ALBANY | Reticulation Supplies - Various | \$ | 1,679.30 |
| EFT126473 | 21/06/2018 RL THOMPSON | Refund | \$ | 2,283.65 |
| EFT126474 | 21/06/2018 TIM WATERS DESIGN | Design Services - Visitor Centre Information Sign | \$ | 880.00 |
| EFT126475 | 21/06/2018 ALBANY TINT A CAR | Window Tinting - Library | \$ | 7,230.62 |
| EFT126476 | 21/06/2018 TONNES BOBCAT WORKX PTY LTD | Equipment Hire - Kalgan Fire | \$ | 528.00 |
| EFT126477 | 21/06/2018 TOURISM COUNCIL WESTERN AUSTRALIA | Membership Fees - Marketing | \$ | 3,724.00 |
| EFT126478 | 21/06/2018 TRUCKLINE | Material Supply - Seal | \$ | 172.39 |
| EFT126479 | 21/06/2018 ALBANY TYREPOWER | Tyre Repairs And Maintenance | \$ | 2,768.85 |
| EFT126480 | 21/06/2018 UBWH AUSTRALIA | IT Supplies - Radiolinks And Wi-Fi Equipment | \$ | 2,173.17 |
| EFT126481 | 21/06/2018 MOORE STEPHENS PTY LTD | Staff Training - WALGA Tax Workshop | \$ | 1,320.00 |
| EFT126482 | 21/06/2018 VANGUARD PRESS | Brochure Display - Great Southern Alliance | \$ | 1,191.41 |
| EFT126483 | 21/06/2018 VOEGELER CREATIONS | Merchandise Order - Visitor Centre | \$ | 146.50 |
| EFT126484 | 21/06/2018 WA LIBRARY SUPPLIES | Furniture Supplies - Library | \$ | 460.75 |
| EFT126485 | 21/06/2018 WA NATURALLY PUBLICATIONS | Merchandise Order - Visitor Centre | \$ | 698.10 |
| EFT126486 | 21/06/2018 WAUTERS ENTERPRISES PTY LTD | Art Collection Relocation | \$ | 36,771.90 |
| EFT126487 | 21/06/2018 ARH (BBW) PTY LTD | Food Supplies - May Fires | \$ | 982.34 |
| EFT126488 | 21/06/2018 WESTRAC EQUIPMENT PTY LTD | Material Supply - Oil Drum | \$ | 999.10 |
| EFT126489 | 21/06/2018 WESTERN AUSTRALIAN LOCAL GOVERNMENT ASSOCIATION | Training for elected members on 17 May 2018 | \$ | 50.00 |
| EFT126490 | 21/06/2018 LANDMARK LIMITED | Material Supply - Fertiliser | \$ | 2,227.50 |
| EFT126491 | 21/06/2018 WESTSHRED DOCUMENT DISPOSAL | Document Disposal - May 2018 | \$ | 381.70 |
| EFT126492 | 21/06/2018 WESTERN AUSTRALIAN MUSEUM | National Anzac Centre MOU Agreement | \$ | 65,760.00 |
| EFT126493 | 21/06/2018 WESTERN WORK WEAR | Signage - Flammable Materials Storage | \$ | 15.20 |
| EFT126494 | 21/06/2018 HOLIDAY GUIDE PTY LTD | BookEasy Marketing Fee - May 2018 | \$ | 134.80 |
| EFT126495 | 21/06/2018 THE WHIPPY MAN VAN | Catering - Youth Fest | \$ | 50.00 |
| EFT126496 | 21/06/2018 WOOD AND GRIEVE ENGINEERS | Consultancy Services - Boat Pens And Junior AFL Lighting | \$ | 4,675.00 |
| EFT126497 | 21/06/2018 WREN OIL | Waste Services - Oil | \$ | 16.50 |
| EFT126498 | 21/06/2018 YOUNGS SIDING GENERAL STORE | Food Supplies - May Fires | \$ | 371.00 |
| EFT126499 | 21/06/2018 ZENITH LAUNDRY | Laundry Services/Hire | \$ | 75.38 |
| EFT126500 | 25/06/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Loan Payment | \$ | 156,321.82 |
| EFT126501 | 25/06/2018 TECTONICS CONSTRUCTION GROUP PTY LTD | Construction Services - C17001 | \$ | 40,762.74 |

REPORT ITEM CCS 070 REFERS

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| EFT126502 | 27/06/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Loan Payment | \$ | 302,988.75 |
| EFT126503 | 28/06/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Loan Payment | \$ | 92,091.85 |
| EFT126504 | 28/06/2018 ABBOTTS LIQUID SALVAGE PTY LTD | Waste Services - Grease Trap | \$ | 258.50 |
| EFT126505 | 28/06/2018 AD CONTRACTORS PTY LTD | Material Supply And Hire - C16012/C16015 | \$ | 15,776.50 |
| EFT126506 | 28/06/2018 ADVERTISER PRINT | Printing Services - Business Cards | \$ | 65.00 |
| EFT126507 | 28/06/2018 ALBANY CITY LAWNS | Lawn Mowing Services - Lancaster Park | \$ | 638.00 |
| EFT126508 | 28/06/2018 ALBANY FARM TREE NURSERY | Material Supply - Grotubes | \$ | 271.04 |
| EFT126509 | 28/06/2018 ALBANY V-BELT AND RUBBER | Material Supply - Hose And Chuck | \$ | 33.31 |
| EFT126510 | 28/06/2018 ALBANY SWEEP CLEAN | Sweeping Services - C15014 | \$ | 3,126.00 |
| EFT126511 | 28/06/2018 ALBANY OFFICE NATIONAL | Printing Services - Laminating | \$ | 60.00 |
| EFT126512 | 28/06/2018 ALBANY COMMUNITY HOSPICE | Payroll Deductions | \$ | 64.00 |
| EFT126513 | 28/06/2018 ALBANY INDOOR PLANT HIRE AND SALES | Indoor Plant Hire - May 2018 | \$ | 1,516.02 |
| EFT126514 | 28/06/2018 ALBANY CHAMBER OF COMMERCE AND INDUSTRY | 2018 Sponsorship - Great Southern Business Awards | \$ | 3,300.00 |
| EFT126515 | 28/06/2018 SOUTHERN PORTS AUTHORITY | Annual Lease - Emu Point | \$ | 11.00 |
| EFT126516 | 28/06/2018 TRICOAST CIVIL | Mount Elphinstone - C17029 | \$ | 249,441.08 |
| EFT126517 | 28/06/2018 ALBANY REFRIGERATION | Air-Conditioning Services - Town Hall And Hanrahan Road | \$ | 3,890.00 |
| EFT126518 | 28/06/2018 ALBANY LITTLE ATHLETICS | Refund | \$ | 244.80 |
| EFT126519 | 28/06/2018 ALBANY COMMUNITY CARE CENTRE (WA) INC | Refund | \$ | 19.00 |
| EFT126520 | 28/06/2018 ALBANY MARRON FARM | Catering - Tidy Town Crew | \$ | 425.00 |
| EFT126521 | 28/06/2018 ALBANY COMMUNITY FOUNDATION | Payroll Deductions | \$ | 10.00 |
| EFT126522 | 28/06/2018 ALBANY DOMESTIC SERVICES | Cleaning Services - Animal Waste | \$ | 160.00 |
| EFT126523 | 28/06/2018 ALINTA | Gas Charges | \$ | 929.00 |
| EFT126524 | 28/06/2018 ALL EVENTS HIRE AND PRODUCTION | Equipment Hire - Community Thank You Event | \$ | 528.00 |
| EFT126525 | 28/06/2018 ALLIANCE DISTRIBUTION SERVICES | Merchandise Order - Forts Store | \$ | 273.64 |
| EFT126526 | 28/06/2018 AMALGAMATED MOVIES | Movie rights for Anime Night | \$ | 180.40 |
| EFT126527 | 28/06/2018 PAPERBARK MERCHANTS | Newspaper/Book/Magazine Supplies | \$ | 2,000.04 |
| EFT126528 | 28/06/2018 APPRENTICE & TRAINEESHIP COMPANY | Casual Staff/Apprentice Fees | \$ | 278.17 |
| EFT126529 | 28/06/2018 ARBORWEST TREE FARM | Plant Supply - Eucalyptus | \$ | 3,630.00 |
| EFT126530 | 28/06/2018 ATC WORK SMART | Casual Staff/Apprentice Fees | \$ | 20,298.14 |
| EFT126531 | 28/06/2018 AUSTRALIAN TAXATION OFFICE | Payroll Deductions | \$ | 395,175.17 |
| EFT126532 | 28/06/2018 AUSTRALIAN SERVICES UNION WA BRANCH | Payroll Deductions | \$ | 3,546.15 |
| EFT126533 | 28/06/2018 BADGEMATE | Uniform Supplies - Name Badges | \$ | 26.62 |
| EFT126534 | 28/06/2018 BAKERS FOOD & FUEL | Fuel And Food Supplies - Bush Fire Brigade | \$ | 1,827.70 |
| EFT126535 | 28/06/2018 BAREFOOT CLOTHING MANUFACTURERS | Uniform Supplies - Albany Heritage Park | \$ | 2,463.00 |
| EFT126536 | 28/06/2018 BARKERS TRENCHING SERVICES | Trenching Services - Centennial Park | \$ | 891.00 |
| EFT126537 | 28/06/2018 SUSAN BARKER | Car Repairs - Middleton Road | \$ | 20.00 |
| EFT126538 | 28/06/2018 CARL ROY BECK | Facilitation Of RAC Bike Skills Session | \$ | 400.00 |
| EFT126539 | 28/06/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD | Traffic Control Services - C17014 | \$ | 5,112.25 |
| EFT126540 | 28/06/2018 BEST OFFICE SYSTEMS | Repairs And Maintenance - Wide Format Printer | \$ | 1,218.00 |
| EFT126541 | 28/06/2018 BISSELTOE PRESS | Merchandise Order - Visitor Centre | \$ | 23.10 |
| EFT126542 | 28/06/2018 ALBANY BOBCAT SERVICES | Equipment Hire - C16012 | \$ | 1,659.63 |
| EFT126543 | 28/06/2018 BOBS BIKES | Repairs And Maintenance - E-Bike | \$ | 87.90 |
| EFT126544 | 28/06/2018 BORNHOLM VOLUNTEER BUSHFIRE BRIGADE | LGGs Funding | \$ | 3,246.18 |
| EFT126545 | 28/06/2018 BRANDNET PTY LTD | Merchandise Order - Forts Store | \$ | 4,638.60 |
| EFT126546 | 28/06/2018 BUNNINGS GROUP LIMITED | Material Supply - Storage Shelves And Batteries | \$ | 340.66 |
| EFT126547 | 28/06/2018 CALTEX AUSTRALIA PETROLEUM PTY LTD | Fuel Supplies - Depot | \$ | 13,554.28 |
| EFT126548 | 28/06/2018 CAMTRANS ALBANY PTY LTD | Material Supply - Pavers | \$ | 2,608.20 |
| EFT126549 | 28/06/2018 CAMLYN SPRINGS | Water Container Refills | \$ | 1,456.00 |
| EFT126550 | 28/06/2018 CARSMART ALBANY | Repairs And Maintenance - Fridge De-Gassing | \$ | 1,144.00 |
| EFT126551 | 28/06/2018 CARROLL AND RICHARDSON FLAGS | Material Supply - Australian Flags | \$ | 387.00 |
| EFT126552 | 28/06/2018 CARERS ASSOCIATION OF WESTERN AUSTRALIA INCORPORATED | Membership Fees - Seniors Strategy | \$ | 110.00 |
| EFT126553 | 28/06/2018 CAREY TRAINING PTY LTD | Staff Training - Works And Services | \$ | 585.00 |

REPORT ITEM CCS 070 REFERS

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| EFT126554 | 28/06/2018 J & S CASTLEHOW ELECTRICAL SERVICES | Electrical Services - C15026 | \$ | 1,810.74 |
| EFT126555 | 28/06/2018 CENTIGRADE SERVICES PTY LTD | ALAC Repairs And Maintenance - Q18016 | \$ | 7,675.90 |
| EFT126556 | 28/06/2018 CENTRAL REGIONAL TAFE | Staff Training - Development Services | \$ | 228.46 |
| EFT126557 | 28/06/2018 CHILD SUPPORT AGENCY | Payroll Deductions | \$ | 2,011.68 |
| EFT126558 | 28/06/2018 CHRISTOPHER BURNELL | Professional Services - Anzac Park Wall Repairs | \$ | 3,850.00 |
| EFT126559 | 28/06/2018 CLAREMONT FOOTBALL CLUB (INC) | Staging Of WAFL Game | \$ | 22,000.00 |
| EFT126560 | 28/06/2018 CLEANAWAY PTY LIMITED | Rubbish Removal - P14021 | \$ | 272,833.06 |
| EFT126561 | 28/06/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD | Grocery Supplies - Various | \$ | 246.09 |
| EFT126562 | 28/06/2018 HOLCIM (AUSTRALIA) PTY LTD | Concrete Supplies - C16010 | \$ | 369.60 |
| EFT126563 | 28/06/2018 D & K ENGINEERING | Fabrication Services - Handrails | \$ | 489.50 |
| EFT126564 | 28/06/2018 DE LAGE LANDEN PTY LIMITED | Monthly Rental - IT | \$ | 6,319.50 |
| EFT126565 | 28/06/2018 LANDGATE | Title Searches | \$ | 961.40 |
| EFT126566 | 28/06/2018 DEPARTMENT OF BIODIVERSITY CONSERVATION AND ATTRACTIONS | Park Passes - Visitor Centre | \$ | 2,070.20 |
| EFT126567 | 28/06/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY | Cleaning Services - Q16024 | \$ | 362.30 |
| EFT126568 | 28/06/2018 T DEW | Staff Reimbursement | \$ | 102.88 |
| EFT126569 | 28/06/2018 SANDRA DIXON | Professional Services - EAP | \$ | 300.00 |
| EFT126570 | 28/06/2018 EMMA DOUGHTY | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126571 | 28/06/2018 RICCI DRAPER | Cleaning Services - Centennial Stadium | \$ | 40.00 |
| EFT126572 | 28/06/2018 DS AGENCIES | Material Supply - Push Buttons | \$ | 1,012.00 |
| EFT126573 | 28/06/2018 DYLAN ON THE TERRACE | Catering - Various | \$ | 2,031.50 |
| EFT126574 | 28/06/2018 EASIFLEET MANAGEMENT | Payroll Deductions | \$ | 14,131.76 |
| EFT126575 | 28/06/2018 ALBANY ECO HOUSE | Prize Packs - ACEC's Recycle Bin Launch | \$ | 300.00 |
| EFT126576 | 28/06/2018 S ELLIOTT | Refund | \$ | 127.50 |
| EFT126577 | 28/06/2018 EXECUTIVE MEDIA PTY LTD | Caravanning Australia - Anzac 2018 | \$ | 150.00 |
| EFT126578 | 28/06/2018 EYERITE SIGNS | Signage - Plant Decals | \$ | 16.50 |
| EFT126579 | 28/06/2018 FAIRBRIDGE FESTIVAL | Quick Response Grant - Song Writing Workshop | \$ | 550.00 |
| EFT126580 | 28/06/2018 FOXTEL MANAGEMENT PTY LTD | Business Package Subscription | \$ | 1,500.00 |
| EFT126581 | 28/06/2018 FRANKS LOADER SERVICES | Equipment Hire - C16012 | \$ | 7,110.41 |
| EFT126582 | 28/06/2018 GIRL GUIDES WESTERN AUSTRALIA | Kid Sport Subsidy | \$ | 45.00 |
| EFT126583 | 28/06/2018 GNOWELLEN VOLUNTEER BUSHFIRE BRIGADE | LGGS Funding | \$ | 200.00 |
| EFT126584 | 28/06/2018 GOLDEN WEST NETWORK PTY LTD | Advertising - National Anzac Centre | \$ | 1,269.40 |
| EFT126585 | 28/06/2018 ALISON GOODE | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126586 | 28/06/2018 GOODLIFE ALBANY | Prize Packs - ACEC's Recycle Bin Launch | \$ | 144.65 |
| EFT126587 | 28/06/2018 GORDON WALMSLEY PTY LTD | Asphalt Services - C15007 | \$ | 234,703.75 |
| EFT126588 | 28/06/2018 SOUTHERN SHARPENING SERVICES | Sharpening Services - Flensing Knives | \$ | 22.00 |
| EFT126589 | 28/06/2018 GREAT SOUTHERN PERSONNEL INC | Gardening Services - Lotteries House | \$ | 204.00 |
| EFT126590 | 28/06/2018 GREAT SOUTHERN SAND AND LANDSCAPING SUPPLIES | Equipment Hire - C10612 | \$ | 4,125.00 |
| EFT126591 | 28/06/2018 GREAT SOUTHERN SUPPLIES | Uniform Supplies - Q17028 | \$ | 953.30 |
| EFT126592 | 28/06/2018 GREEN MAN MEDIA PRODUCTIONS | Advertising - WAFL And Cinema | \$ | 1,760.00 |
| EFT126593 | 28/06/2018 GREYBIRD MEDIA | Advertising - Forts Store | \$ | 825.00 |
| EFT126594 | 28/06/2018 GREAT SOUTHERN NOONGAR CULTURAL CONSULTANCIES | Professional Services - Vancouver Street Festival | \$ | 1,250.00 |
| EFT126595 | 28/06/2018 GWN GREAT SOUTHERN | Advertising - ALAC Gym | \$ | 2,593.80 |
| EFT126596 | 28/06/2018 RAY HAMMOND | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126597 | 28/06/2018 PROTECTOR FIRE SERVICES PTY LTD | Repairs And Maintenance - Napier Fire Hose | \$ | 143.00 |
| EFT126598 | 28/06/2018 HAVOC BUILDERS PTY LTD | Seating Repairs And Maintenance - Stadium And Pavilion | \$ | 735.90 |
| EFT126599 | 28/06/2018 HELEN LEEDER-CARLSON | Art Classes - VAC | \$ | 240.00 |
| EFT126600 | 28/06/2018 HOBBS PAINTING AND DECORATING | Painting Services - Q17037 | \$ | 29,763.05 |
| EFT126601 | 28/06/2018 BILL HOLLINGWORTH | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126602 | 28/06/2018 HHG LEGAL GROUP | Legal Services - C16011 | \$ | 2,910.60 |
| EFT126603 | 28/06/2018 IMPULSE CYCLES | E-Bike Repairs And Maintenance | \$ | 99.00 |
| EFT126604 | 28/06/2018 JJ'S HIAB SERVICES & JJ'S GREAT SOUTHERN | Transportation Services - Q16037 | \$ | 5,236.00 |
| EFT126605 | 28/06/2018 KLB SYSTEMS | Computer Hardware Supplies | \$ | 12,199.00 |

REPORT ITEM CCS 070 REFERS

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|-----------|--|---|----|------------|
| EFT126606 | 28/06/2018 KMART ALBANY | Bubble Wands - Community Thank You Event | \$ | 127.00 |
| EFT126607 | 28/06/2018 LA FREEGARD | Equipment Hire - May Fires | \$ | 880.00 |
| EFT126608 | 28/06/2018 LADELLE PTY LTD | Merchandise Order - Forts Store | \$ | 143.55 |
| EFT126609 | 28/06/2018 LATRO LAWYERS | Legal Services - C16011 | \$ | 2,428.25 |
| EFT126610 | 28/06/2018 LIBBY SHEPPARD DESIGN | Merchandise Order - Visitor Centre | \$ | 548.24 |
| EFT126611 | 28/06/2018 LIFEWEAR AUSTRALIA | Merchandise Order - Forts Store | \$ | 1,898.82 |
| EFT126612 | 28/06/2018 BUCHER MUNICIPAL PTY LTD | Major Plant Purchase - Isuzu Truck | \$ | 372,494.10 |
| EFT126613 | 28/06/2018 ALBANY EVENT HIRE | Equipment Hire - Community Thank You Event | \$ | 663.00 |
| EFT126614 | 28/06/2018 MCB CONSTRUCTION PTY LTD | Painting Services - Bus Shelters | \$ | 1,072.50 |
| EFT126615 | 28/06/2018 AY MCEWAN | Staff Reimbursement | \$ | 124.70 |
| EFT126616 | 28/06/2018 TESS MCKENNA | Professional Services - Vancouver Street Festival | \$ | 1,250.00 |
| EFT126617 | 28/06/2018 MERCHANDISING LIBRARIES PTY LTD | Signage - Library | \$ | 3,266.69 |
| EFT126618 | 28/06/2018 ANTHONY MOIR | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126619 | 28/06/2018 MOSS CONVEYANCING | Refund | \$ | 808.81 |
| EFT126620 | 28/06/2018 MULE CREATIVE | Design Services - Peer Support Brochures, Event Storyboards | \$ | 2,821.50 |
| EFT126621 | 28/06/2018 ALBANY NEWS DELIVERY | Newspaper/Book/Magazine Supplies | \$ | 129.90 |
| EFT126622 | 28/06/2018 NLC PTY LTD | Novated Lease And Associated Costs | \$ | 1,351.30 |
| EFT126623 | 28/06/2018 OFFICEWORKS SUPERSTORES PTY LTD | Certificate Frames - Forward Control Van | \$ | 120.00 |
| EFT126624 | 28/06/2018 ORIGIN ENERGY | Gas Charges | \$ | 9,195.10 |
| EFT126625 | 28/06/2018 OUR COMMUNITY PTY LTD | Subscription Renewal - Funding Centre | \$ | 400.00 |
| EFT126626 | 28/06/2018 SP PALMER | Refund | \$ | 24.30 |
| EFT126627 | 28/06/2018 BRAYDEN JOHN PARKER | Lawn Mowing Services - Day Care | \$ | 120.00 |
| EFT126628 | 28/06/2018 J PASSMORE | Staff Reimbursement | \$ | 19.98 |
| EFT126629 | 28/06/2018 PERTH SAFETY PRODUCTS PTY LTD | Signage - Various | \$ | 2,488.20 |
| EFT126630 | 28/06/2018 4 STEEL SUPPLIES | Material Supply - Steel | \$ | 653.40 |
| EFT126631 | 28/06/2018 PLASTICS PLUS | Material Supply - Bins And Polycarbonate Sheets | \$ | 1,534.00 |
| EFT126632 | 28/06/2018 ALBANY PLUMBING AND GAS | Plumbing Services - C17020 | \$ | 1,472.64 |
| EFT126633 | 28/06/2018 POWERHOUSE ARCHITECTURAL DRAFTING | Architectural Services - CPSP And Sandpatch Stairs | \$ | 4,037.00 |
| EFT126634 | 28/06/2018 PRE-EMPTIVE STRIKE PTY LTD | Signage - Black Swan Point | \$ | 781.00 |
| EFT126635 | 28/06/2018 WP REID | Professional Services - C16026 | \$ | 11,480.00 |
| EFT126636 | 28/06/2018 RENNIKS PUBLICATIONS PTY LTD | Merchandise Order - Forts Store | \$ | 306.00 |
| EFT126637 | 28/06/2018 REXEL AUSTRALIA | Repairs And Maintenance - Bomag Compactor | \$ | 159.72 |
| EFT126638 | 28/06/2018 ROADTECH CONSTRUCTIONS PTY LTD | Drainage Works - C17015 | \$ | 25,990.69 |
| EFT126639 | 28/06/2018 ROAM PTY LTD | Structural Report And Mount Design - Mount Melville Tower | \$ | 4,950.00 |
| EFT126640 | 28/06/2018 ROBERTS GARDINER ARCHITECTS | Design Services - Q18009 | \$ | 2,329.25 |
| EFT126641 | 28/06/2018 THE ROYAL LIFE SAVING SOCIETY WA INC | Staff Training - Lifeguard Course | \$ | 941.00 |
| EFT126642 | 28/06/2018 SAMPSON GRAPHICS | Design Services - Beach Wrack Signage | \$ | 55.00 |
| EFT126643 | 28/06/2018 JAMIE SHANE SCALLY | Entertainment - Albany Fires Community Thank You | \$ | 770.00 |
| EFT126644 | 28/06/2018 SEEK LIMITED | Advertising - Job Vacancies | \$ | 302.50 |
| EFT126645 | 28/06/2018 JOHN SHANHUN | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126646 | 28/06/2018 SKILL HIRE WA PTY LTD | Casual Staff/Apprentice Fees | \$ | 3,573.43 |
| EFT126647 | 28/06/2018 SKIPPER TRANSPORT PARTS | Material Supply - Aerosol And Springs | \$ | 417.53 |
| EFT126648 | 28/06/2018 TRACY SLEEMAN | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126649 | 28/06/2018 SANDIE SMITH | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126650 | 28/06/2018 GS SMITH | Refund | \$ | 54.20 |
| EFT126651 | 28/06/2018 SOIL SOLUTIONS PTY LTD | Green Waste Passes | \$ | 9,804.00 |
| EFT126652 | 28/06/2018 STAR SALES AND SERVICE | Material Supply - Trimmer Head | \$ | 49.00 |
| EFT126653 | 28/06/2018 DEPARTMENT OF THE PREMIER & CABINET | Gazette Advertising | \$ | 476.48 |
| EFT126654 | 28/06/2018 ALBANY VOLUNTEER STATE EMERGENCY SERVICE UNIT INC | LGGS Allocation | \$ | 326.23 |
| EFT126655 | 28/06/2018 STATEWIDE BEARINGS | Material Supply - Seal | \$ | 3.30 |
| EFT126656 | 28/06/2018 STATEWIDE BUILDING CERTIFICATION WA | Building Report And Compliance Certificate - Airport Sea Containers | \$ | 330.00 |
| EFT126657 | 28/06/2018 STEWART AND HEATON CLOTHING PTY LTD | Uniform Supplies - Fire Brigades | \$ | 1,017.78 |

REPORT ITEM CCS 070 REFERS

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|-----------|---|--|----|------------|
| EFT126658 | 28/06/2018 REBECCA STEPHENS | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126659 | 28/06/2018 GREGORY BRIAN STOCKS | Deputy Mayoral Allowances And Sitting Fees - June 2018 | \$ | 4,760.83 |
| EFT126660 | 28/06/2018 STREAMLINE BRICK PAVING | Earth Works - North Road Garden Bed | \$ | 561.00 |
| EFT126661 | 28/06/2018 S JAMIESON | Staff Reimbursement | \$ | 130.30 |
| EFT126662 | 28/06/2018 SUBWAY | Gift Vouchers - Youth Engagement | \$ | 110.00 |
| EFT126663 | 28/06/2018 ALBANY LOCK SERVICE | Professional Services - Key Cutting | \$ | 10.00 |
| EFT126664 | 28/06/2018 SUPERCHEAP AUTOS | Material Supply - Lamp | \$ | 35.67 |
| EFT126665 | 28/06/2018 ROBERT SUTTON | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126666 | 28/06/2018 SYNERGY | Electricity Supply | \$ | 129,083.35 |
| EFT126667 | 28/06/2018 T & C SUPPLIES | Minor Asset Purchase And Various - Drill Combo | \$ | 2,982.75 |
| EFT126668 | 28/06/2018 TALIS CONSULTANTS PTY LTD | Consultancy Services - P18001 | \$ | 11,485.17 |
| EFT126669 | 28/06/2018 PAUL TERRY | Councillor Allowances And Sitting Fee - June 2018 | \$ | 2,909.47 |
| EFT126670 | 28/06/2018 TOURISM COUNCIL WESTERN AUSTRALIA | ATAP Renewal Fees - National Anzac Centre And Fortress | \$ | 949.00 |
| EFT126671 | 28/06/2018 YANN ALEX TOUSSAINT | Staff Workshop - Composting | \$ | 400.00 |
| EFT126672 | 28/06/2018 TRUCKLINE | Material Supply - Rags And Filters | \$ | 293.23 |
| EFT126673 | 28/06/2018 MOORE STEPHENS PTY LTD | Audit Services - P16012 | \$ | 30,138.02 |
| EFT126674 | 28/06/2018 MICHELLE RYAN | Merchandise Order - Visitor Centre | \$ | 200.00 |
| EFT126675 | 28/06/2018 WCP CIVIL PTY LTD | Return Of Retention Held - P17005 | \$ | 8,674.40 |
| EFT126676 | 28/06/2018 ALBANY & GREAT SOUTHERN WEEKENDER | Advertising - Burning Restrictions | \$ | 161.04 |
| EFT126677 | 28/06/2018 DENNIS WELLINGTON | Mayoral Allowance And Sitting Fees - June 2018 | \$ | 11,621.69 |
| EFT126678 | 28/06/2018 YOUNGS SIDING GENERAL STORE | Fuel And Food Supplies - Fire Brigades | \$ | 867.22 |
| EFT126679 | 28/06/2018 ZENITH LAUNDRY | Laundry Services/Hire | \$ | 109.70 |
| EFT126680 | 29/06/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Loan Payment | \$ | 383,278.87 |
| EFT126681 | 29/06/2018 TRICOAST CIVIL | Mount Elphinstone - C17029 | \$ | 240,307.87 |
| EFT126682 | 29/06/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD | Traffic Control Services - C17014 | \$ | 5,000.00 |
| EFT126683 | 29/06/2018 HOLCIM (AUSTRALIA) PTY LTD | Concrete Supplies - C16010 | \$ | 12,650.00 |
| EFT126684 | 29/06/2018 GORDON WALMSLEY PTY LTD | Asphalt Services - C15007 | \$ | 2,646.00 |
| EFT126685 | 29/06/2018 KESTON TECHNOLOGIES PTY LTD | Synopsis - City Deals | \$ | 2,747.25 |
| EFT126686 | 29/06/2018 LANDMARK ENGINEERING AND DESIGN | Toilet Building - Lake Weelara | \$ | 5,035.80 |
| EFT126687 | 29/06/2018 PR AND ER NEWMAN'S QUALITY CONCRETE PRODUCTS | Drainage Products - C15009 | \$ | 3,240.56 |
| EFT126688 | 29/06/2018 HANSON CONSTRUCTION MATERIALS PTY LTD | Building Supplies - C16015 | \$ | 642.40 |
| EFT126689 | 29/06/2018 PLASTICS PLUS | Material Supply - Lids | \$ | 0.80 |
| EFT126690 | 29/06/2018 DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION | Licence Fee - Hanrahan Tip | \$ | 11,392.00 |
| EFT126692 | 02/07/2018 COMMONWEALTH BANK OF AUSTRALIA | Loan Payment | \$ | 36,264.24 |
| EFT126693 | 03/07/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Loan Payment | \$ | 156,679.30 |
| EFT126694 | 05/07/2018 ABA SECURITY | Security Services - Alarm System Monitoring | \$ | 88.00 |
| EFT126695 | 05/07/2018 ABBOTTS LIQUID SALVAGE PTY LTD | Waste Services - Westrail Barracks | \$ | 50.00 |
| EFT126696 | 05/07/2018 AD CONTRACTORS PTY LTD | Material Supply And Hire - C16012/C16015 | \$ | 42,657.51 |
| EFT126697 | 05/07/2018 ALBANY INDUSTRIAL SERVICES PTY LTD | Equipment Hire - C17015/C16012 | \$ | 12,769.76 |
| EFT126698 | 05/07/2018 ALBANY FARM TREE NURSERY | Material Supply - Plants | \$ | 63.36 |
| EFT126699 | 05/07/2018 ALBANY STOCK FEEDS AND OAKDALE FARM | Material Supply - Oats | \$ | 126.00 |
| EFT126700 | 05/07/2018 ALBANY AGRICULTURAL SOCIETY INCORPORATED | Pavilion Hire - Ranger Relocation | \$ | 1,364.00 |
| EFT126701 | 05/07/2018 ALBANY RACING CLUB INCORPORATED | Signage - Destination Marketing | \$ | 8,800.00 |
| EFT126702 | 05/07/2018 ALBANY OFFICE PRODUCTS DEPOT | Stationery Suppliers - Various | \$ | 851.71 |
| EFT126703 | 05/07/2018 KEVLIE PTY LTD | Bike Hire - RAC Skills Session | \$ | 198.00 |
| EFT126704 | 05/07/2018 ALBANY NETBALL ASSOCIATION | Kid Sport Subsidy | \$ | 300.00 |
| EFT126705 | 05/07/2018 ALBANY PSYCHOLOGICAL SERVICES | Professional Services - EAP | \$ | 484.00 |
| EFT126706 | 05/07/2018 ALBANY CENTRAL CABINETS PTY LTD | Desk Alterations - North Road Building | \$ | 528.00 |
| EFT126707 | 05/07/2018 ALBANY INSULATION | Material Supply - Insulation | \$ | 8,310.00 |
| EFT126708 | 05/07/2018 ALBANY MILK DISTRIBUTORS | Milk Deliveries | \$ | 579.08 |
| EFT126709 | 05/07/2018 ALBANY LEGAL PTY LTD | Legal Services - C16011 | \$ | 854.00 |
| EFT126710 | 05/07/2018 ALBANY JUNIOR SOCCER ASSOCIATION | Kid Sport Subsidy | \$ | 625.00 |

REPORT ITEM CCS 070 REFERS

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|-----------|---|---|----|-----------|
| EFT126711 | 05/07/2018 ALBANY RECORDS MANAGEMENT | Archive Storage - Library | \$ | 734.14 |
| EFT126712 | 05/07/2018 ALBANY DOMESTIC SERVICES | Cleaning Services - Animal Waste | \$ | 160.00 |
| EFT126713 | 05/07/2018 ALINTA | Gas Charges | \$ | 332.75 |
| EFT126714 | 05/07/2018 DAMON ANNISON | Merchandise Order - Forts Store | \$ | 240.00 |
| EFT126715 | 05/07/2018 APPRENTICE & TRAINEESHIP COMPANY | Casual Staff/Apprentice Fees | \$ | 409.07 |
| EFT126716 | 05/07/2018 ARDESS NURSERY | Plant Supply - Eucalyptus And Olive Trees | \$ | 7,355.25 |
| EFT126717 | 05/07/2018 ASP ALLOY AND STAINLESS PRODUCTS | Material Supply - Blades | \$ | 1,156.20 |
| EFT126718 | 05/07/2018 ATC WORK SMART | Casual Staff/Apprentice Fees | \$ | 14,784.29 |
| EFT126719 | 05/07/2018 BADGEMATE | Uniform Supplies - Name Badges | \$ | 28.38 |
| EFT126720 | 05/07/2018 BAREFOOT CLOTHING MANUFACTURERS | Uniform Supplies - Depot And Rangers | \$ | 838.50 |
| EFT126721 | 05/07/2018 BARRETT'S MINI EARTHMOVING & CHIPPING | Vegetation Maintenance - C17022 | \$ | 2,475.00 |
| EFT126722 | 05/07/2018 BATTERY WORLD | Material Supply - Heavy Duty Battery | \$ | 198.00 |
| EFT126723 | 05/07/2018 BENARA NURSERIES | Plant Supplies | \$ | 330.01 |
| EFT126724 | 05/07/2018 BENNETT'S BATTERIES | Material Supply - Battery | \$ | 118.80 |
| EFT126725 | 05/07/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD | Traffic Control Services - C17014 | \$ | 13,043.26 |
| EFT126726 | 05/07/2018 BIO DIVERSE SOLUTIONS | Wildlife Hazard Management Plan - Airport | \$ | 6,122.16 |
| EFT126727 | 05/07/2018 ALBANY BITUMEN SPRAYING | Asphalt Repairs - Mill Street | \$ | 517.00 |
| EFT126728 | 05/07/2018 J. BLACKWOOD & SON PTY LTD | Material Supply - Concrete | \$ | 1,161.24 |
| EFT126729 | 05/07/2018 ALBANY BOBCAT SERVICES | Equipment Hire - C16012 | \$ | 7,152.75 |
| EFT126730 | 05/07/2018 BP BIRD PLUMBING & GAS PTY LTD | Repairs And Maintenance - Oil Separator | \$ | 88.00 |
| EFT126731 | 05/07/2018 BRANDNET PTY LTD | Merchandise Order - Forts Store | \$ | 4,989.89 |
| EFT126732 | 05/07/2018 COLIN BRINHAM FENCING & RETAINING WALLS | Junior AFL Fencing CPSP - Q18018 | \$ | 21,923.00 |
| EFT126733 | 05/07/2018 CONSTRUCTION TRAINING FUND | CTF Levy - June 2018 | \$ | 16,462.88 |
| EFT126734 | 05/07/2018 BUILDERS REGISTRATION BOARD | BSL Levy | \$ | 17,019.33 |
| EFT126735 | 05/07/2018 BUNNINGS GROUP LIMITED | Material Supply - Timber And Various | \$ | 977.63 |
| EFT126736 | 05/07/2018 CABCHARGE AUSTRALIA LIMITED | Taxi Charges | \$ | 866.74 |
| EFT126737 | 05/07/2018 CALTEX AUSTRALIA PETROLEUM PTY LTD | Fuel Supplies - Depot | \$ | 15,735.34 |
| EFT126738 | 05/07/2018 J & S CASTLEHOW ELECTRICAL SERVICES | Electrical Services - C15026 | \$ | 14,518.05 |
| EFT126739 | 05/07/2018 CENTIGRADE SERVICES PTY LTD | ALAC Repairs And Maintenance - Q18016 | \$ | 445.50 |
| EFT126740 | 05/07/2018 CIVICA PTY LTD | Staff training - Library | \$ | 1,980.00 |
| EFT126741 | 05/07/2018 CLARK EQUIPMENT SALES PTY LTD | Material Supply - Track Roller | \$ | 431.94 |
| EFT126742 | 05/07/2018 COASTLINE GARAGE DOORS AND GATES | Supply And Installation - Hanrahan Site Roller Doors | \$ | 4,144.36 |
| EFT126743 | 05/07/2018 COLES SUPERMARKETS AUSTRALIA PTY LTD | Grocery Supplies | \$ | 32.32 |
| EFT126744 | 05/07/2018 COLAB CONSTRUCTION PTY LTD | Return Of Retention Monies Held | \$ | 1,947.02 |
| EFT126745 | 05/07/2018 MR COLLINS | Refund | \$ | 24.00 |
| EFT126746 | 05/07/2018 COMMON GROUND TRAILS PTY LTD | Feasibility Plan - Youth Precinct | \$ | 2,695.00 |
| EFT126747 | 05/07/2018 ALBANY SIGNS | Signage - Bush Watch Bumper Stickers | \$ | 704.00 |
| EFT126748 | 05/07/2018 HOLCIM (AUSTRALIA) PTY LTD | Concrete Supplies - C16010 | \$ | 10,059.50 |
| EFT126749 | 05/07/2018 AL CURNOW HYDRAULICS | Material Supply - Fittings And Hose | \$ | 183.47 |
| EFT126750 | 05/07/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY | Cleaning Services - Q16024 | \$ | 2,473.80 |
| EFT126751 | 05/07/2018 DI'S LUNCH BAR | Catering - Fire Warden Training | \$ | 277.20 |
| EFT126752 | 05/07/2018 SANDRA DIXON | Professional Services - EAP | \$ | 150.00 |
| EFT126753 | 05/07/2018 VICKY DODDS | Corporate Sponsorship Project - AHP | \$ | 5,500.00 |
| EFT126754 | 05/07/2018 DYLAN'S ON THE TERRACE | Catering - Council Meeting And Goode Beach Presentation | \$ | 971.40 |
| EFT126755 | 05/07/2018 EDEN GATE ESTATE | Merchandise Order - Forts Store | \$ | 138.00 |
| EFT126756 | 05/07/2018 ELITE POOL COVERS | Material Supply - Thermal Spa Blanket | \$ | 643.50 |
| EFT126757 | 05/07/2018 ELIXIR HONEY PTY LTD | Merchandise Order - Forts Store | \$ | 120.39 |
| EFT126758 | 05/07/2018 E-STRAILIAN PTY LTD | E-Bike Lease | \$ | 182.18 |
| EFT126759 | 05/07/2018 EVERTRANS | Vehicle Repairs And Maintenance - Tailgate | \$ | 1,155.00 |
| EFT126760 | 05/07/2018 EYERITE SIGNS | Signage - Black Swan Point, Middleton Beach | \$ | 929.50 |
| EFT126761 | 05/07/2018 FAIRBRIDGE FESTIVAL | Sponsorship - Vancouver Arts Centre | \$ | 1,100.00 |
| EFT126762 | 05/07/2018 FRANKS LOADER SERVICES | Equipment Hire - C16012 | \$ | 3,873.32 |

REPORT ITEM CCS 070 REFERS

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|-----------|---|--|----|-----------|
| EFT126763 | 05/07/2018 FRONTLINE FIRE & RESCUE EQUIPMENT | Fire Brigade Protective Equipment | \$ | 866.03 |
| EFT126764 | 05/07/2018 GLASS SUPPLIERS | Glazing Services - Visitor Centre | \$ | 1,200.00 |
| EFT126765 | 05/07/2018 GREAT SOUTHERN PEST & WEED CONTROL | Pest Control Services Q17027 | \$ | 230.00 |
| EFT126766 | 05/07/2018 SOUTHERN SHARPENING SERVICES | Fire Equipment Maintenance - C14030 | \$ | 879.00 |
| EFT126767 | 05/07/2018 GREAT SOUTHERN SUPPLIES | Paper Supplies - Q17008 | \$ | 3,674.27 |
| EFT126768 | 05/07/2018 STRATA CORPORATION PTY LTD | Material Supply - Fertiliser | \$ | 666.56 |
| EFT126769 | 05/07/2018 GREENMAN TRADING COMPANY | Vegetation Maintenance - C17022 | \$ | 7,914.50 |
| EFT126770 | 05/07/2018 GSM AUTO ELECTRICAL | Material Supply - Isolator | \$ | 18.20 |
| EFT126771 | 05/07/2018 GHD PTY LTD | Professional Services - Q18022 | \$ | 6,864.00 |
| EFT126772 | 05/07/2018 J HAND | Refund | \$ | 127.50 |
| EFT126773 | 05/07/2018 PROTECTOR FIRE SERVICES PTY LTD | Material Supply - Storm Fittings | \$ | 99.00 |
| EFT126774 | 05/07/2018 HARVEY NORMAN ALBANY | Material Supply - Camera And Accessories | \$ | 841.00 |
| EFT126775 | 05/07/2018 HAVOC BUILDERS PTY LTD | Building Services - C17028 | \$ | 9,273.00 |
| EFT126776 | 05/07/2018 HAWS ENGINEERING | Engineering Services - Hockey Turf Catch Net | \$ | 660.00 |
| EFT126777 | 05/07/2018 HIGHLAND HUSTLE ALBANY | Active Albany Lessons | \$ | 400.00 |
| EFT126778 | 05/07/2018 HHG LEGAL GROUP | Legal Services - C16011 | \$ | 3,557.40 |
| EFT126779 | 05/07/2018 HUDSON SEWAGE SERVICES | Waste Services - Anzac Centre | \$ | 1,337.50 |
| EFT126780 | 05/07/2018 ICKY FINKS WAREHOUSE SALES | Art Supplies - VAC Workshop | \$ | 24.75 |
| EFT126781 | 05/07/2018 STATEWIDE RACKING & STORAGE SOLUTIONS | Material Supply - Caster Wheels | \$ | 443.60 |
| EFT126782 | 05/07/2018 JJ'S HIAB SERVICES & JJ'S GREAT SOUTHERN | Transportation Services - Q16037 | \$ | 264.00 |
| EFT126783 | 05/07/2018 JOHN KINNEAR AND ASSOCIATES | Survey Services - C16016 | \$ | 24,125.47 |
| EFT126784 | 05/07/2018 JS ROADSIDE PRODUCTS PTY LTD | Material Supply - Steel Flex Posts | \$ | 6,303.00 |
| EFT126785 | 05/07/2018 JUST SEW EMBROIDERY | Uniform Supplies - Members Of Council | \$ | 556.60 |
| EFT126786 | 05/07/2018 JUST A CALL DELIVERIES | Internal Mail Deliveries | \$ | 1,476.38 |
| EFT126787 | 05/07/2018 KLB SYSTEMS | IT Supplies - Computers | \$ | 16,549.50 |
| EFT126788 | 05/07/2018 KMART ALBANY | Art Supplies - School Holiday Program | \$ | 34.50 |
| EFT126789 | 05/07/2018 LA FREEGARD | Mulching Services - Fire Tracks | \$ | 15,000.00 |
| EFT126790 | 05/07/2018 LATRO LAWYERS | Legal Services - C16011 | \$ | 169.60 |
| EFT126791 | 05/07/2018 LEEUWIN OCEAN ADVENTURE FOUNDATION | Scholarships - Southern Spirit Voyages | \$ | 4,450.00 |
| EFT126792 | 05/07/2018 CALTEX ENERGY WA | Kerosene Supplies - Road Patching | \$ | 1,148.00 |
| EFT126793 | 05/07/2018 M AND B SALES PTY LTD | Material Supply - Timber | \$ | 328.19 |
| EFT126794 | 05/07/2018 ALBANY EVENT HIRE | Equipment Hire - Trestle Tables | \$ | 150.00 |
| EFT126795 | 05/07/2018 ALBANY CITY MOTORS | Material Supply - Filters | \$ | 135.08 |
| EFT126796 | 05/07/2018 METROLL ALBANY | Material Supply - Zincalume | \$ | 348.71 |
| EFT126797 | 05/07/2018 METTLER TOLEDO LTD | Weighbridge Maintenance - Bakers Junction | \$ | 8,118.00 |
| EFT126798 | 05/07/2018 MODERN TEACHING AIDS PTY LTD | Furniture Supplies - Day Care | \$ | 384.84 |
| EFT126799 | 05/07/2018 NURRUNGA COMMUNICATIONS | Repairs And Maintenance - Install New Radios | \$ | 2,594.61 |
| EFT126800 | 05/07/2018 PR AND ER NEWMAN'S QUALITY CONCRETE PRODUCTS | Drainage Products - C15009 | \$ | 438.35 |
| EFT126801 | 05/07/2018 ALBANY NEWS DELIVERY | Newspaper Deliveries | \$ | 259.80 |
| EFT126802 | 05/07/2018 NORDIC FITNESS EQUIPMENT | Cleaning Supplies - ALAC Gym | \$ | 557.92 |
| EFT126803 | 05/07/2018 W NUNN | Relocation Reimbursement | \$ | 1,500.00 |
| EFT126804 | 05/07/2018 OCS SERVICES PTY LTD | Cleaning Services - C15015 | \$ | 31,829.56 |
| EFT126805 | 05/07/2018 OFFICEWORKS SUPERSTORES PTY LTD | Material Supply - iPhone | \$ | 1,079.00 |
| EFT126806 | 05/07/2018 O'KEEFE'S PAINTS | Material Supply - Paint | \$ | 492.26 |
| EFT126807 | 05/07/2018 ORANA CINEMAS ALBANY PTY LTD | Movie Voucher - Youth Pool Party | \$ | 230.00 |
| EFT126808 | 05/07/2018 ORIGIN ENERGY | Gas Charges | \$ | 7,849.85 |
| EFT126809 | 05/07/2018 PENNANT HOUSE | Material Supply - City of Albany Flag | \$ | 1,287.00 |
| EFT126810 | 05/07/2018 PENROSE PROFESSIONAL LAWN CARE | Lawn Mowing Services - VAC | \$ | 264.00 |
| EFT126811 | 05/07/2018 PFD FOOD SERVICES PTY LTD | Water Supplies - May Fires | \$ | 425.00 |
| EFT126812 | 05/07/2018 4 STEEL SUPPLIES | Material Supply - Pipe | \$ | 1,824.24 |
| EFT126813 | 05/07/2018 PLASTICS PLUS | Material Supply - Plastic Buckets | \$ | 71.50 |
| EFT126814 | 05/07/2018 ALBANY PLUMBING AND GAS | Plumbing Services - C17020 | \$ | 427.45 |

REPORT ITEM CCS 070 REFERS

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| EFT126815 | 05/07/2018 PRATT TRANSPORT LOGISTICS | Equipment Hire - Water Tanker | \$ 616.00 |
| EFT126816 | 05/07/2018 PRE-EMPTIVE STRIKE PTY LTD | Printing Services - Active Albany And NAIDOC Week | \$ 2,420.00 |
| EFT126817 | 05/07/2018 PRINCESS ROYAL SAILING CLUB | Sailing Sponsorship - Community Leadership Grant | \$ 1,000.00 |
| EFT126818 | 05/07/2018 PRINTSYNC BUSINESS SOLUTIONS | Photocopier Charges - Lotteries House | \$ 5.16 |
| EFT126819 | 05/07/2018 PROTECTOR FIRE SERVICES | Fire Equipment - Airport | \$ 172.70 |
| EFT126820 | 05/07/2018 PROMOTE YOU | Bush Watch Promotional Products | \$ 1,859.00 |
| EFT126821 | 05/07/2018 QUICK SHOT COFFEE | Refreshments - HR Training | \$ 70.00 |
| EFT126822 | 05/07/2018 RAMM SOFTWARE PTY LTD | Road Assessment And Maintenance Management Software Renewal | \$ 11,979.39 |
| EFT126823 | 05/07/2018 RAWLINS TAE KWON DO CENTRES ACADEMY | Kid Sport Subsidy | \$ 190.00 |
| EFT126824 | 05/07/2018 RECONNECT HEALTH AND WELLBEING | Professional Services - EAP | \$ 330.00 |
| EFT126825 | 05/07/2018 REECE PTY LTD | Material Supply - PVC Pipes | \$ 43.26 |
| EFT126826 | 05/07/2018 WP REID | Professional Services - C16026 | \$ 8,504.00 |
| EFT126827 | 05/07/2018 ROBERTS GARDINER ARCHITECTS | Design Services - Mercer Road Office | \$ 2,420.00 |
| EFT126828 | 05/07/2018 THE ROYAL LIFE SAVING SOCIETY WA INC | Call Centre Charges - May 2018 | \$ 1,215.56 |
| EFT126829 | 05/07/2018 ROYALS FOOTBALL CLUB | Kid Sport Subsidy | \$ 220.00 |
| EFT126830 | 05/07/2018 ROYALS SAINTS NETBALL CLUB | Kid Sport Subsidy | \$ 300.00 |
| EFT126831 | 05/07/2018 RV SPORT PTY LTD | Refund | \$ 4,340.21 |
| EFT126832 | 05/07/2018 SKILL HIRE WA PTY LTD | Casual Staff/Apprentice Fees | \$ 5,795.39 |
| EFT126833 | 05/07/2018 SMC MARINE PTY LTD | Emu Point Boat Pens - C18003 | \$ 43,560.00 |
| EFT126834 | 05/07/2018 SOLOMONS FLOORING | Flooring Services - Events Sea Container | \$ 1,900.00 |
| EFT126835 | 05/07/2018 SOUTHERN TOOL AND FASTENER CO | Material Supply - Flagging Tape And Cable Ties | \$ 111.10 |
| EFT126836 | 05/07/2018 SOUTHERN DISTRICTS JUNIOR FOOTBALL ASSOCIATION | Kid Sport Subsidy | \$ 1,690.00 |
| EFT126837 | 05/07/2018 SOUTHERN EDGE ARTS INC | Kid Sport Subsidy | \$ 495.00 |
| EFT126838 | 05/07/2018 STEWART AND HEATON CLOTHING PTY LTD | Uniform Supplies - Fire Brigades | \$ 2,184.97 |
| EFT126839 | 05/07/2018 STIRLING PRINT | Printing Services - Rural Waste Passes | \$ 3,315.00 |
| EFT126840 | 05/07/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD | First Aid Kit Servicing | \$ 146.00 |
| EFT126841 | 05/07/2018 STREAMLINE BRICK PAVING | Earth Works - North Road Garden Bed | \$ 561.00 |
| EFT126842 | 05/07/2018 S JAMIESON | Staff Reimbursement | \$ 80.60 |
| EFT126843 | 05/07/2018 ALBANY LOCK SERVICE | Key Supplies - C14003 | \$ 697.45 |
| EFT126844 | 05/07/2018 SYNERGY | Electricity Supply | \$ 10,660.40 |
| EFT126845 | 05/07/2018 T & C SUPPLIES | Minor Asset Purchase And Various - Milwaukee | \$ 4,908.74 |
| EFT126846 | 05/07/2018 NAKED BEAN COFFEE ROASTERS | Office Supplies - Refreshments | \$ 51.00 |
| EFT126847 | 05/07/2018 THE COMPUTER SCHOOL | Technology Training Directory - Library | \$ 1,100.00 |
| EFT126848 | 05/07/2018 K THILL | Refund | \$ 24.00 |
| EFT126849 | 05/07/2018 TIM WATERS DESIGN | Design Services - Hanrahan Tip Signage Modifications | \$ 2,673.00 |
| EFT126850 | 05/07/2018 TRAILBLAZERS | Gas Bottle Refill - ALAC | \$ 26.70 |
| EFT126851 | 05/07/2018 TRADELINK PLUMBING SUPPLIES | Material Supply - PVC Grates | \$ 61.13 |
| EFT126852 | 05/07/2018 WESTERN AUSTRALIAN TREASURY CORPORATION | Government Guarantee Fee | \$ 50,409.86 |
| EFT126853 | 05/07/2018 ALBANY TYREPOWER | Tyre Repairs And Maintenance | \$ 470.00 |
| EFT126854 | 05/07/2018 VISIT MERCHANDISE PTY LTD | Merchandise Order - Visitor Centre | \$ 104.72 |
| EFT126855 | 05/07/2018 J WANT | Staff Reimbursement | \$ 124.60 |
| EFT126856 | 05/07/2018 ALBANY & GREAT SOUTHERN WEEKENDER | Advertising - Community Information Page | \$ 1,057.55 |
| EFT126857 | 05/07/2018 WESTRAC EQUIPMENT PTY LTD | Material Supply - Filters | \$ 141.57 |
| EFT126858 | 05/07/2018 LANDMARK LIMITED | Material Supply - Fertiliser | \$ 2,424.54 |
| EFT126859 | 05/07/2018 WESTERN POWER CORPORATION | Transformer Installation - Napier | \$ 15,453.00 |
| EFT126860 | 05/07/2018 WEST AUSTRALIAN NEWSPAPERS LIMITED | Advertising - Vancouver Arts Centre | \$ 545.28 |
| EFT126861 | 05/07/2018 ROSS WILLIAMSON | Cleaning Services - ALAC | \$ 450.00 |
| EFT126862 | 05/07/2018 WOOLWORTHS GROUP LIMITED | Grocery Supplies - Day Care | \$ 1,846.43 |
| EFT126863 | 05/07/2018 L YATES | Staff Reimbursement | \$ 84.00 |
| EFT126864 | 05/07/2018 ZENITH LAUNDRY | Laundry Services/Hire | \$ 94.58 |
| EFT126865 | 12/07/2018 AAA PRESSURE CLEANING | Cleaning Services - Anzac Park | \$ 187.00 |
| EFT126866 | 12/07/2018 ABA SECURITY | Supply And Installation - Access Control System | \$ 3,650.00 |

REPORT ITEM CCS 070 REFERS

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|-----------|---|---|----|------------|
| EFT126867 | 12/07/2018 ACTIVE MANAGEMENT | Business Coaching - ALAC | \$ | 1,799.20 |
| EFT126868 | 12/07/2018 AD CONTRACTORS PTY LTD | Material Supply And Hire - C16012/C16015 | \$ | 4,796.65 |
| EFT126869 | 12/07/2018 ADVERTISER PRINT | Printing Services - Daily Running Sheets | \$ | 445.00 |
| EFT126870 | 12/07/2018 AERODROME MANAGEMENT SERVICES PTY LTD | Staff Training - Airport Reporting Officer | \$ | 4,722.36 |
| EFT126871 | 12/07/2018 ALBANY HYDRAULICS | Material Supply - Couplings | \$ | 348.15 |
| EFT126872 | 12/07/2018 ALBANY FARM TREE NURSERY | Material Supply - Plants | \$ | 264.00 |
| EFT126873 | 12/07/2018 ALBANY V-BELT AND RUBBER | Material Supply - Hose | \$ | 60.50 |
| EFT126874 | 12/07/2018 ALBANY CHAMBER OF COMMERCE AND INDUSTRY | Advertising - Visitor Centre | \$ | 250.75 |
| EFT126875 | 12/07/2018 ALBANY AGRICULTURAL SOCIETY INCORPORATED | Pavilion Hire - Ranger Relocation | \$ | 2,435.60 |
| EFT126876 | 12/07/2018 CHOICES FLOORING BY ALBANY INTERIORS | Material Supply - Roller Blind | \$ | 227.00 |
| EFT126877 | 12/07/2018 ALBANY OFFICE PRODUCTS DEPOT | Stationery Suppliers - Various | \$ | 2,294.40 |
| EFT126878 | 12/07/2018 ALBANY ABORIGINAL CORPORATION | Wadjemup Elders Healing Trip - NAIDOC Week | \$ | 4,500.00 |
| EFT126879 | 12/07/2018 ALBANY PLASTERBOARD COMPANY | Repairs And Maintenance - Collie Street Health Clinic | \$ | 1,422.19 |
| EFT126880 | 12/07/2018 ALBANY WHALE TOURS | Merchandise Order - Visitor Centre | \$ | 151.80 |
| EFT126881 | 12/07/2018 ALBANY IRRIGATION & DRILLING | Irrigation Supplies - Pipe And Couplings | \$ | 378.40 |
| EFT126882 | 12/07/2018 ALBANY STAINLESS STEEL | Cleaning Services - Light Horse Memorial | \$ | 6,305.20 |
| EFT126883 | 12/07/2018 ALBANY DOMESTIC SERVICES | Delivery of Animal Hygiene Services | \$ | 160.00 |
| EFT126884 | 12/07/2018 ALBANY FORD & CHRYSLER JEEP | Material Supply - Switch | \$ | 15.55 |
| EFT126885 | 12/07/2018 ALL EVENTS HIRE AND PRODUCTION | Labour Charges - VAC Focus | \$ | 66.00 |
| EFT126886 | 12/07/2018 ALL-WEATHER BUILDING PRODUCTS | Material Supply - Louvre Window | \$ | 942.46 |
| EFT126887 | 12/07/2018 APPRENTICE & TRAINEESHIP COMPANY | Casual Staff/Apprentice Fees | \$ | 196.35 |
| EFT126888 | 12/07/2018 AQUA ICE | Ice Bags - WAFL Game | \$ | 46.20 |
| EFT126889 | 12/07/2018 ARDESS NURSERY | Plant Supplies | \$ | 968.45 |
| EFT126890 | 12/07/2018 ATC WORK SMART | Casual Staff/Apprentice Fees | \$ | 18,868.73 |
| EFT126891 | 12/07/2018 AURORA ENVIRONMENTAL ALBANY | Coastal Hazard Risk Management - C17031 | \$ | 5,984.00 |
| EFT126892 | 12/07/2018 AUSTRALIA POST | Postage Fees - June 2018 | \$ | 2,594.01 |
| EFT126893 | 12/07/2018 AUSTRALIAN FACILITATION COMPANY | Business Planning Support - Q18002 | \$ | 18,500.00 |
| EFT126894 | 12/07/2018 BADGEMATE | Uniform Supplies - Name Badges | \$ | 40.65 |
| EFT126895 | 12/07/2018 BAREFOOT CLOTHING MANUFACTURERS | Uniform Supplies - Visitor Centre | \$ | 1,232.00 |
| EFT126896 | 12/07/2018 BARBEQUES GALORE ALBANY | Gas Bottle Refill - Animal Control | \$ | 75.00 |
| EFT126897 | 12/07/2018 BENARA NURSERIES | Supply Of Advanced Trees - Q18020 | \$ | 19,135.60 |
| EFT126898 | 12/07/2018 BENNETTS BATTERIES | Material Supply - Batteries | \$ | 1,975.60 |
| EFT126899 | 12/07/2018 ADVANCED TRAFFIC MANAGEMENT WA PTY LTD | Traffic Control Services - C17014 | \$ | 6,839.80 |
| EFT126900 | 12/07/2018 ALBANY BITUMEN SPRAYING | Bitumen Repairs - Seymour Street | \$ | 9,735.00 |
| EFT126901 | 12/07/2018 J. BLACKWOOD & SON PTY LTD | Material Supply - Cement, Ear Muffs, Goggles | \$ | 1,463.25 |
| EFT126902 | 12/07/2018 BOC GASES AUSTRALIA LIMITED | CONTAINER SERVICE RENTAL | \$ | 140.15 |
| EFT126903 | 12/07/2018 BOOKEASY AUSTRALIA PTY LTD | BookEasy Marketing Fee - June 2018 | \$ | 1,022.77 |
| EFT126904 | 12/07/2018 JONATHAN WILLIAM BRAIN | Professional Services - Noongar Song Project | \$ | 500.00 |
| EFT126905 | 12/07/2018 BUNNINGS GROUP LIMITED | Material Supply - Tool Kit | \$ | 124.32 |
| EFT126906 | 12/07/2018 BUSBY INVESTMENTS PTY LTD | Motor Vehicle Hire - A Sharpe | \$ | 59.13 |
| EFT126907 | 12/07/2018 CARAVAN INDUSTRY ASSOCIATION WESTERN AUSTRALIA | Membership Renewal - Visitor Centre | \$ | 550.00 |
| EFT126908 | 12/07/2018 J & S CASTLEHOW ELECTRICAL SERVICES | CCTV Infrastructure - Q17024 | \$ | 44,165.59 |
| EFT126909 | 12/07/2018 CENTENNIAL STADIUM INC | Electricity Supply - City Cost Share | \$ | 402.24 |
| EFT126910 | 12/07/2018 CHERRY BOOTS ALBANY | Merchandise Order - Visitor Centre | \$ | 135.00 |
| EFT126911 | 12/07/2018 CLEANAWAY PTY LIMITED | Kerbside Rubbish Collection 2018 | \$ | 550,782.86 |
| EFT126912 | 12/07/2018 COASTLINE GARAGE DOORS AND GATES | Repairs And Maintenance - Roller Door Bolts | \$ | 171.49 |
| EFT126913 | 12/07/2018 COATES HIRE OPERATIONS PTY LIMITED | Equipment Hire - Scissor Lift | \$ | 116.11 |
| EFT126914 | 12/07/2018 COURIER AUSTRALIA | Freight Charges | \$ | 2,483.56 |
| EFT126915 | 12/07/2018 ALBANY SIGNS | Signage - Phone Stickers | \$ | 55.00 |
| EFT126916 | 12/07/2018 FIBREGLOSS WORX | Repairs And Maintenance - ALAC Noddy Pool Car | \$ | 1,890.00 |
| EFT126917 | 12/07/2018 DOWNER EDI WORKS PTY LTD | Material Supply - Cold-Mix | \$ | 1,198.92 |
| EFT126918 | 12/07/2018 HOLCIM (AUSTRALIA) PTY LTD | Concrete Supplies - C16010 | \$ | 11,710.52 |

REPORT ITEM CCS 070 REFERS

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|-----------|---|--|----|-----------|
| EFT126919 | 12/07/2018 CULTURE COUNTS AUSTRALIA PTY LTD | Consultancy Subscription - Vancouver Arts Centre | \$ | 3,300.00 |
| EFT126920 | 12/07/2018 AL CURNOW HYDRAULICS | Material Supply - Adaptor | \$ | 48.86 |
| EFT126921 | 12/07/2018 DATA #3 LIMITED | IT Licence - Nvidia Grid | \$ | 2,485.40 |
| EFT126922 | 12/07/2018 DE JONGE MECHANICAL PTY LTD | Repairs And Maintenance - Wiper Blades | \$ | 43.50 |
| EFT126923 | 12/07/2018 CGS QUALITY CLEANING | Cleaning Services - C14036 | \$ | 42,964.58 |
| EFT126924 | 12/07/2018 G AND M DETERGENTS AND HYGIENE SERVICES ALBANY | Cleaning Services - Q16024 | \$ | 1,302.19 |
| EFT126925 | 12/07/2018 T DEW | Staff Reimbursement | \$ | 100.00 |
| EFT126926 | 12/07/2018 ME GROUP PTY LTD | Material Supply - Notice Boards | \$ | 1,278.73 |
| EFT126927 | 12/07/2018 DYLAN'S ON THE TERRACE | Catering - Green Session And Council Meeting | \$ | 1,090.00 |
| EFT126928 | 12/07/2018 ALBANY ELITE EARTHMOVING AND DRAINAGE | Earth Works - Events Storage Shed | \$ | 462.00 |
| EFT126929 | 12/07/2018 ELLEKER GENERAL STORE | Fuel Purchases - Bush Fire Brigades | \$ | 348.43 |
| EFT126930 | 12/07/2018 ELLENBY TREE FARM PTY LTD | Advanced Tree Supply - Q18020 | \$ | 57,227.50 |
| EFT126931 | 12/07/2018 ENGINEERING TECHNOLOGY CONSULTANTS | Strategic Assessment - Albany Town Square | \$ | 3,440.00 |
| EFT126932 | 12/07/2018 EXISLE PUBLISHING | Merchandise Order - Forts Store | \$ | 988.39 |
| EFT126933 | 12/07/2018 FARMERS CENTRE (1978) PTY LTD | Material Supply - Filters | \$ | 106.11 |
| EFT126934 | 12/07/2018 PETER FINDLAY | Professional Services - Vancouver Street Festival | \$ | 150.00 |
| EFT126935 | 12/07/2018 THE FIXUPPERY | Window Cleaning Services - Q16023 | \$ | 1,821.97 |
| EFT126936 | 12/07/2018 FRONTLINE FIRE & RESCUE EQUIPMENT | Protective Equipment - Face Masks And Filters | \$ | 1,130.42 |
| EFT126937 | 12/07/2018 GALLERY WORKS | Printing Services - Vancouver Street Festival | \$ | 871.00 |
| EFT126938 | 12/07/2018 GIANT INFLATABLES | Stadium Jumpy Activity Centre - Partial Payment | \$ | 8,049.25 |
| EFT126939 | 12/07/2018 GIBSON INTERNATIONAL LTD | SLA Character Posts And Tribute Wall - National Anzac Centre | \$ | 2,681.25 |
| EFT126940 | 12/07/2018 GLOBAL MARINE ENCLOSURES PTY LTD | Maintenance of Ellen Cove Swimming Enclosure | \$ | 4,138.20 |
| EFT126941 | 12/07/2018 RB GOLLEDGE | Rates Refund | \$ | 934.66 |
| EFT126942 | 12/07/2018 ALISON GOODE | Councillor Reimbursement | \$ | 1,520.50 |
| EFT126943 | 12/07/2018 GREAT SOUTHERN PEST & WEED CONTROL | Pest Control Services Q17027 | \$ | 44.00 |
| EFT126944 | 12/07/2018 SOUTHERN SHARPENING SERVICES | Fire Panel Testing - May | \$ | 180.00 |
| EFT126945 | 12/07/2018 GREAT SOUTHERN SUPPLIES | Paper Supplies - Q17008 | \$ | 1,080.72 |
| EFT126946 | 12/07/2018 STRATAGREEN | Material Supply - Driver And Planting Tablets | \$ | 355.58 |
| EFT126947 | 12/07/2018 GREENMAN TRADING COMPANY | Vegetation Maintenance - C17022 | \$ | 4,235.00 |
| EFT126948 | 12/07/2018 GREAT SOUTHERN BIO LOGIC | Dieback Assessment - Albany Heritage Park | \$ | 3,190.00 |
| EFT126949 | 12/07/2018 GHD PTY LTD | Waste Consultancy Services - Hanrahan Tip | \$ | 11,020.90 |
| EFT126950 | 12/07/2018 HAVOC BUILDERS PTY LTD | Building Services - C17028 | \$ | 7,012.50 |
| EFT126951 | 12/07/2018 HELEN MUNT | Heritage Advisory Services | \$ | 3,797.18 |
| EFT126952 | 12/07/2018 HIGHWAY WRECKERS | Removal Of Abandoned Vehicle | \$ | 88.00 |
| EFT126953 | 12/07/2018 HOBBS PAINTING AND DECORATING | Painting Services - Q17037 | \$ | 18,734.00 |
| EFT126954 | 12/07/2018 AFGRI EQUIPMENT AUSTRALIA PTY LTD | Material Supply - Various | \$ | 1,207.10 |
| EFT126955 | 12/07/2018 HHG LEGAL GROUP | Legal Services - C16011 | \$ | 7,995.90 |
| EFT126956 | 12/07/2018 HUDSON SEWAGE SERVICES | Waste Services - National Anzac Centre | \$ | 300.00 |
| EFT126957 | 12/07/2018 ICKY FINKS WAREHOUSE SALES | Art Supplies - VAC Workshop | \$ | 94.41 |
| EFT126958 | 12/07/2018 IDENTITY CREATIVE | Design Services - Remembrance Day 2018 | \$ | 71.50 |
| EFT126959 | 12/07/2018 IMPULSE CYCLES | Material Supply - Wicker Basket | \$ | 59.85 |
| EFT126960 | 12/07/2018 ITOMIC WEB SPECIALISTS | Website Development Services - C13027 | \$ | 4,900.50 |
| EFT126961 | 12/07/2018 JOHN MCLEAN MEDIA | National Anzac Centre Content Campaign | \$ | 16,280.00 |
| EFT126962 | 12/07/2018 JUST SEW EMBROIDERY | Uniform Supplies - ALAC | \$ | 324.50 |
| EFT126963 | 12/07/2018 KALGAN ORGANICS | Merchandise Order - Visitor Centre | \$ | 84.00 |
| EFT126964 | 12/07/2018 KING RIVER VOLUNTEER BUSH FIRE BRIGADE | LGG'S Funding | \$ | 998.75 |
| EFT126965 | 12/07/2018 LITTLE GROVE GENERAL STORE | Fuel Purchases - Bush Fire Brigades | \$ | 2,631.56 |
| EFT126966 | 12/07/2018 AUS LOCALS PTY LTD | Material Supply - Insect Repellent | \$ | 361.00 |
| EFT126967 | 12/07/2018 LOCHNESS LANDSCAPE SERVICES | Lawn Mowing Services - Day Care | \$ | 8,900.80 |
| EFT126968 | 12/07/2018 LOWER GREAT SOUTHERN HOCKEY ASSOCIATION INC | Kid Sport Subsidy | \$ | 900.00 |
| EFT126969 | 12/07/2018 M AND B SALES PTY LTD | Material Supply - Pine | \$ | 883.43 |
| EFT126970 | 12/07/2018 ALBANY CITY MOTORS | Material Supply - Air Cleaner Housing | \$ | 329.52 |

REPORT ITEM CCS 070 REFERS

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| EFT126971 | 12/07/2018 MANYPEAKS STORE | Fuel Purchases - Bush Fire Brigades | \$ 353.02 |
| EFT126972 | 12/07/2018 MARKETFORCE LIMITED | Advertising - Various | \$ 1,628.40 |
| EFT126973 | 12/07/2018 MCB CONSTRUCTION PTY LTD | Design And Construction Services - Q17050 | \$ 41,182.04 |
| EFT126974 | 12/07/2018 METROLL ALBANY | Material Supply - Galvanised Steel | \$ 31.68 |
| EFT126975 | 12/07/2018 METTLER TOLEDO LTD | Weighbridge Maintenance - Bakers Junction | \$ 8,619.60 |
| EFT126976 | 12/07/2018 M MITCHELL | Refund | \$ 16.00 |
| EFT126977 | 12/07/2018 MOORE POWER & COOL | Repairs And Maintenance - Garrison Rangehood | \$ 66.00 |
| EFT126978 | 12/07/2018 STEPHANIE ANNE WRIGHT MORRIGAN | Professional Services - EAP | \$ 242.00 |
| EFT126979 | 12/07/2018 MOUNT ROMANCE AUSTRALIA PTY LTD | Merchandise Order - Visitor Centre | \$ 1,084.39 |
| EFT126980 | 12/07/2018 LGIS INSURANCE BROKING | Insurance Renewal - Motor Vehicle, Management Liability, Other | \$ 202,337.17 |
| EFT126981 | 12/07/2018 LGIS PROPERTY | Insurance Renewal - Property, Liability, Workers Compensation | \$ 494,914.27 |
| EFT126982 | 12/07/2018 N & S ELECTRONICS | Material Supply - Battery | \$ 49.95 |
| EFT126983 | 12/07/2018 PR AND ER NEWMAN'S QUALITY CONCRETE PRODUCTS | Drainage Products - C15009 | \$ 4,299.35 |
| EFT126984 | 12/07/2018 NLC PTY LTD | Novated Lease And Associated Costs | \$ 1,351.30 |
| EFT126985 | 12/07/2018 OCS SERVICES PTY LTD | Cleaning Services - C15015 | \$ 997.12 |
| EFT126986 | 12/07/2018 OFFICEWORKS SUPERSTORES PTY LTD | Printing Services - Mounts Master Plan | \$ 290.68 |
| EFT126987 | 12/07/2018 O'KEEFE'S PAINTS | Material Supply - Paint | \$ 480.00 |
| EFT126988 | 12/07/2018 ORIGIN ENERGY | Gas Charges | \$ 8,990.35 |
| EFT126989 | 12/07/2018 OYSTER HARBOUR STORE | Catering - Fire Tracks Burn | \$ 77.25 |
| EFT126990 | 12/07/2018 PALMER CIVIL CONSTRUCTION | Gravel Crushing - C16012 | \$ 143,873.00 |
| EFT126991 | 12/07/2018 PFD FOOD SERVICES PTY LTD | Office Supplies - Refreshments | \$ 180.50 |
| EFT126992 | 12/07/2018 PHILLIP BEST PLUMBING PTY LTD | ALAC Steam Room Refurbishment - Q18014 | \$ 53,352.35 |
| EFT126993 | 12/07/2018 HANSON CONSTRUCTION MATERIALS PTY LTD | Building Supplies - C16015 | \$ 1,386.00 |
| EFT126994 | 12/07/2018 PRE-EMPTIVE STRIKE PTY LTD | Design Services - Active Albany | \$ 786.50 |
| EFT126995 | 12/07/2018 PRIORITY 1 FIRE & SAFETY PTY LTD | Staff Training - Fire Warden | \$ 2,090.00 |
| EFT126996 | 12/07/2018 REECE PTY LTD | Material Supply - Grate | \$ 1,755.78 |
| EFT126997 | 12/07/2018 REZDY PTY LTD | Subscription Fees - Booking System | \$ 2,561.00 |
| EFT126998 | 12/07/2018 M RICHARDSON | Staff Reimbursement | \$ 481.24 |
| EFT126999 | 12/07/2018 ROBERTS GARDINER ARCHITECTS | Design Services - Junior AFL Facility | \$ 2,934.25 |
| EFT127000 | 12/07/2018 SAXXON IT | IT Services - Virtual Centre | \$ 10,560.00 |
| EFT127001 | 12/07/2018 SCARVES AUSTRALIA | Merchandise Order - Forts Store | \$ 975.00 |
| EFT127002 | 12/07/2018 SECUREPAY PTY LTD | Web Payments Security - Transaction Fee | \$ 31.68 |
| EFT127003 | 12/07/2018 SEEDDESIGN STUDIO PTY LTD | Consultation Services - Community And Civic Place | \$ 5,087.81 |
| EFT127004 | 12/07/2018 JOHN SHANHUN | Councillor Reimbursement | \$ 882.45 |
| EFT127005 | 12/07/2018 SHILLER IMAGES | Merchandise Order - Visitor Centre | \$ 442.23 |
| EFT127006 | 12/07/2018 SKILL HIRE WA PTY LTD | Casual Staff/Apprentice Fees | \$ 4,347.98 |
| EFT127007 | 12/07/2018 SMITHS ALUMINIUM AND 4WD CENTRE | Material Supplies - Flat Bar | \$ 68.00 |
| EFT127008 | 12/07/2018 SOIL SOLUTIONS PTY LTD | Material Supply - Bedding Mix | \$ 111.80 |
| EFT127009 | 12/07/2018 SOUTHERN TOOL AND FASTENER CO | Hardware And Tool Supplies - Various | \$ 25.63 |
| EFT127010 | 12/07/2018 SOUTHCOAST SECURITY SERVICE | Security Services - C15016 | \$ 21,021.54 |
| EFT127011 | 12/07/2018 SOUTH COAST CRANE HIRE | Equipment Hire - Craning Water Tanks | \$ 1,212.75 |
| EFT127012 | 12/07/2018 SPORTSWORLD OF WA | Merchandise Order - ALAC | \$ 554.40 |
| EFT127013 | 12/07/2018 SPURR OF THE MOMENT DESIGN | Design Services - Great Walks Map | \$ 751.30 |
| EFT127014 | 12/07/2018 STAX CHAIRS MODUS NATURA PTY LTD | Furniture Supplies - Chairs | \$ 4,180.00 |
| EFT127015 | 12/07/2018 STIRLING PRINT | Printing Services - Plant And Cleaning Books | \$ 1,085.00 |
| EFT127016 | 12/07/2018 ST JOHN AMBULANCE WESTERN AUSTRALIA LTD | Staff Training - AED Awareness | \$ 120.00 |
| EFT127017 | 12/07/2018 ALBANY LOCK SERVICE | Key Supplies - C14003 | \$ 334.45 |
| EFT127018 | 12/07/2018 ALBANY IGA | Grocery Supplies - Visitor Centre | \$ 107.54 |
| EFT127019 | 12/07/2018 SYNERGY | Electricity Supply | \$ 2,148.15 |
| EFT127020 | 12/07/2018 T & C SUPPLIES | Hardware And Tool Supplies - Various | \$ 1,885.80 |
| EFT127021 | 12/07/2018 T & C SUPPLIES | Material Supply - Tool Box | \$ 425.00 |
| EFT127022 | 12/07/2018 TALIS CONSULTANTS PTY LTD | Consultancy Services - Waste Strategy | \$ 2,871.00 |

REPORT ITEM CCS 070 REFERS

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| EFT127023 | 12/07/2018 TASK EXCHANGE PTY LTD | Software Renewal - Cloud Package | \$ | 10,054.00 |
| EFT127024 | 12/07/2018 THINKWATER ALBANY | Irrigation Supplies - June 2018 | \$ | 1,430.61 |
| EFT127025 | 12/07/2018 ALBANY TINT A CAR | Window Tinting - Westrail Barracks | \$ | 759.37 |
| EFT127026 | 12/07/2018 TOTAL GREEN RECYCLING | E-Waste Recycling | \$ | 1,210.00 |
| EFT127027 | 12/07/2018 UNIFORM FASHIONS | Uniform Supplies - Customer Services And Development Services | \$ | 592.90 |
| EFT127028 | 12/07/2018 THE VINTAGE SPORTS CAR CLUB OF WA | Commission - Ticket Sales | \$ | 312.97 |
| EFT127029 | 12/07/2018 WARTHOG WA | Equipment Hire - Parts Washer | \$ | 125.00 |
| EFT127030 | 12/07/2018 THE WARRIE SHOP PTY LTD | Material Supply - Industrial Cutter | \$ | 250.00 |
| EFT127031 | 12/07/2018 E WATKINS | Refund | \$ | 24.00 |
| EFT127032 | 12/07/2018 ALBANY & GREAT SOUTHERN WEEKENDER | Advertising - Plastic Bag Ban And Job Vacancies | \$ | 1,614.00 |
| EFT127033 | 12/07/2018 WELLSTEAD COMMUNITY RESOURCE CENTRE INCORPORATED | Library Assistance - April 2018 | \$ | 264.00 |
| EFT127034 | 12/07/2018 WEST AUSTRALIAN NEWSPAPERS LIMITED | Advertising - Various | \$ | 3,334.13 |
| EFT127035 | 12/07/2018 WEST CAPE HOWE WINES | Civic Function Refreshments | \$ | 710.40 |
| EFT127036 | 12/07/2018 WILD EYED PRESS PTY LTD | Merchandise Order - Forts Store | \$ | 1,406.10 |
| EFT127037 | 12/07/2018 ZENITH LAUNDRY | Laundry Services/Hire | \$ | 67.73 |
| EFT127038 | 12/07/2018 ZURICH AUSTRALIA INSURANCE COMPANY LTD | Insurance Excess | \$ | 300.00 |
| EFT127039 | 13/07/2018 TRICOAST CIVIL | Middleton Road - C17025 | \$ | 343,804.27 |
| DD26199.1 | 19/06/2018 WA SUPER | Payroll Deductions | \$ | 71,978.72 |
| DD26199.2 | 19/06/2018 ASGARD | Payroll Deductions | \$ | 1,221.45 |
| DD26199.3 | 19/06/2018 AUSTRALIAN SUPER | Payroll Deductions | \$ | 9,686.35 |
| DD26199.4 | 19/06/2018 HOSTPLUS PTY LTD | Superannuation Contributions | \$ | 1,556.88 |
| DD26199.5 | 19/06/2018 COLONIAL FIRST STATE WHOLESALE PERSONAL SUPER | Superannuation Contributions | \$ | 650.76 |
| DD26199.6 | 19/06/2018 DESMO SUPERANNUATION FUND | Superannuation Contributions | \$ | 496.73 |
| DD26199.7 | 19/06/2018 CBUS | Superannuation Contributions | \$ | 597.61 |
| DD26199.8 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 152.47 |
| DD26199.9 | 19/06/2018 AMP SUPERANNUATION SAVINGS | Payroll Deductions | \$ | 2,046.38 |
| DD26207.1 | 19/06/2018 HOSTPLUS PTY LTD | Superannuation Contributions | \$ | 22.70 |
| DD26207.2 | 22/06/2018 HOSTPLUS PTY LTD | Payroll Deductions | \$ | 8.79 |
| DD26208.1 | 19/06/2018 SUNSUPER SUPERANNUATION | Superannuation Contributions | \$ | 79.55 |
| DD26275.1 | 03/07/2018 WA SUPER | Payroll Deductions | \$ | 77,361.22 |
| DD26275.2 | 03/07/2018 ASGARD | Payroll Deductions | \$ | 1,314.53 |
| DD26275.3 | 03/07/2018 AUSTRALIAN SUPER | Payroll Deductions | \$ | 10,183.83 |
| DD26275.4 | 03/07/2018 HOSTPLUS PTY LTD | Superannuation Contributions | \$ | 1,682.94 |
| DD26275.5 | 03/07/2018 COLONIAL FIRST STATE WHOLESALE PERSONAL SUPER | Superannuation Contributions | \$ | 697.89 |
| DD26275.6 | 03/07/2018 DESMO SUPERANNUATION FUND | Superannuation Contributions | \$ | 546.60 |
| DD26275.7 | 03/07/2018 CBUS | Superannuation Contributions | \$ | 593.69 |
| DD26275.8 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 155.52 |
| DD26275.9 | 03/07/2018 AMP SUPERANNUATION SAVINGS | Payroll Deductions | \$ | 2,191.77 |
| DD26199.10 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 628.71 |
| DD26199.11 | 19/06/2018 AUSTRALIAN CATHOLIC SUPERANNUATION AND RETIREMENT FUND | Superannuation Contributions | \$ | 507.78 |
| DD26199.12 | 19/06/2018 QSUPER | Superannuation Contributions | \$ | 659.89 |
| DD26199.13 | 19/06/2018 HESTA SUPER FUND | Superannuation Contributions | \$ | 1,439.69 |
| DD26199.14 | 19/06/2018 REST SUPERANNUATION | Payroll Deductions | \$ | 1,759.95 |
| DD26199.15 | 19/06/2018 TAL SUPERANNUATION LIMITED | Superannuation Contributions | \$ | 224.76 |
| DD26199.16 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 316.37 |
| DD26199.17 | 19/06/2018 NATIONAL MUTUAL RETIREMENT FUND | Superannuation Contributions | \$ | 126.47 |
| DD26199.18 | 19/06/2018 MLC MASTERKEY BUSINESS SUPER | Superannuation Contributions | \$ | 964.87 |
| DD26199.19 | 19/06/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER | Superannuation Contributions | \$ | 598.89 |
| DD26199.20 | 19/06/2018 PRIME SUPER | Superannuation Contributions | \$ | 901.00 |
| DD26199.21 | 19/06/2018 OAK TREE SUPERANNUATION FUND | Superannuation Contributions | \$ | 223.84 |
| DD26199.22 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 100.54 |
| DD26199.23 | 19/06/2018 FIRST SUPER | Superannuation Contributions | \$ | 196.54 |

| | | | | |
|------------|---|------------------------------|----|----------|
| DD26199.24 | 19/06/2018 CARE SUPER PTY LTD | Superannuation Contributions | \$ | 395.35 |
| DD26199.25 | 19/06/2018 AMG SUPER | Superannuation Contributions | \$ | 431.77 |
| DD26199.26 | 19/06/2018 SPECTRUM SUPER | Superannuation Contributions | \$ | 353.01 |
| DD26199.27 | 19/06/2018 SUPERWRAP PERSONAL SUPER PLAN | Superannuation Contributions | \$ | 249.03 |
| DD26199.28 | 19/06/2018 NORTH PERSONAL SUPERANNUATION & PENSION FUND | Superannuation Contributions | \$ | 208.59 |
| DD26199.29 | 19/06/2018 AJW SUPERANNUATION FUND | Superannuation Contributions | \$ | 262.56 |
| DD26199.30 | 19/06/2018 WEALTH PERSONAL SUPERANNUATION AND PENSION FUND | Payroll Deductions | \$ | 1,472.16 |
| DD26199.31 | 19/06/2018 SUNSUPER SUPERANNUATION | Superannuation Contributions | \$ | 657.30 |
| DD26199.32 | 19/06/2018 MTA SUPERANNUATION FUND | Superannuation Contributions | \$ | 242.49 |
| DD26199.33 | 19/06/2018 IOOF EMPLOYEE SUPER | Superannuation Contributions | \$ | 337.74 |
| DD26199.34 | 19/06/2018 FIRST STATE SUPER | Superannuation Contributions | \$ | 190.96 |
| DD26199.35 | 19/06/2018 RUSSELL SUPERSOLUTION MASTER TRUST | Superannuation Contributions | \$ | 202.04 |
| DD26199.36 | 19/06/2018 ASGARD | Superannuation Contributions | \$ | 93.45 |
| DD26199.37 | 19/06/2018 ONEPATH MASTERFUND | Superannuation Contributions | \$ | 230.73 |
| DD26199.38 | 19/06/2018 MLC MASTERKEY SUPERANNUATION | Superannuation Contributions | \$ | 702.50 |
| DD26199.39 | 19/06/2018 THE UNIVERSAL SUPER SCHEME | Superannuation Contributions | \$ | 200.56 |
| DD26199.40 | 19/06/2018 AMP SUPERANNUATION SAVINGS | Superannuation Contributions | \$ | 56.65 |
| DD26199.41 | 19/06/2018 TTCSL ATF CRUELTY FREE SUPER | Superannuation Contributions | \$ | 66.14 |
| DD26199.42 | 19/06/2018 MACAULAY SUPER FUND | Superannuation Contributions | \$ | 222.93 |
| DD26199.43 | 19/06/2018 ANZ SMART CHOICE SUPER | Superannuation Contributions | \$ | 83.11 |
| DD26199.44 | 19/06/2018 FUTURE SUPER | Superannuation Contributions | \$ | 157.53 |
| DD26199.45 | 19/06/2018 COLONIAL SUPER RETIREMENT FUND | Superannuation Contributions | \$ | 185.89 |
| DD26199.46 | 19/06/2018 BT SUPER | Superannuation Contributions | \$ | 206.69 |
| DD26199.47 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 222.93 |
| DD26199.48 | 19/06/2018 AUSTRALIAN ETHICAL SUPERANNUATION FUND | Superannuation Contributions | \$ | 227.04 |
| DD26199.49 | 19/06/2018 MACQUARIE SUPER CONSOLIDATOR | Superannuation Contributions | \$ | 226.51 |
| DD26199.50 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 293.36 |
| DD26199.51 | 19/06/2018 IOOF INVESTMENT MANAGEMENT LTD | Superannuation Contributions | \$ | 238.49 |
| DD26199.52 | 19/06/2018 NORTH | Superannuation Contributions | \$ | 55.49 |
| DD26199.53 | 19/06/2018 COLONIAL FIRST STATE WHOLESALE SUPER FUND | Superannuation Contributions | \$ | 209.34 |
| DD26199.54 | 19/06/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 146.01 |
| DD26199.55 | 19/06/2018 AMP SUPERANNUATION SAVINGS TRUST | Superannuation Contributions | \$ | 135.59 |
| DD26199.56 | 19/06/2018 ONEPATH LIFE LIMITED | Superannuation Contributions | \$ | 197.64 |
| DD26199.57 | 19/06/2018 IOOF GLOBAL ONE | Superannuation Contributions | \$ | 187.37 |
| DD26199.58 | 19/06/2018 MEDIA SUPER | Superannuation Contributions | \$ | 120.64 |
| DD26199.59 | 19/06/2018 BT BUSINESS SUPER | Superannuation Contributions | \$ | 224.56 |
| DD26199.60 | 19/06/2018 BENDIGO SMARTSTART SUPER | Superannuation Contributions | \$ | 154.35 |
| DD26199.61 | 19/06/2018 AMP SUPERANNUATION SAVINGS | Superannuation Contributions | \$ | 774.48 |
| DD26199.62 | 19/06/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION FUND | Superannuation Contributions | \$ | 279.30 |
| DD26199.63 | 19/06/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER | Superannuation Contributions | \$ | 637.50 |
| DD26199.64 | 19/06/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION | Payroll Deductions | \$ | 224.85 |
| DD26275.10 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 371.01 |
| DD26275.11 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 641.28 |
| DD26275.12 | 03/07/2018 AUSTRALIAN CATHOLIC SUPERANNUATION AND RETIREMENT FUND | Superannuation Contributions | \$ | 509.01 |
| DD26275.13 | 03/07/2018 QSUPER | Superannuation Contributions | \$ | 673.10 |
| DD26275.14 | 03/07/2018 HESTA SUPER FUND | Superannuation Contributions | \$ | 1,421.68 |
| DD26275.15 | 03/07/2018 REST SUPERANNUATION | Payroll Deductions | \$ | 1,593.58 |
| DD26275.16 | 03/07/2018 TAL SUPERANNUATION LIMITED | Superannuation Contributions | \$ | 229.26 |
| DD26275.17 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 322.70 |
| DD26275.18 | 03/07/2018 NATIONAL MUTUAL RETIREMENT FUND | Superannuation Contributions | \$ | 129.00 |
| DD26275.19 | 03/07/2018 MLC MASTERKEY BUSINESS SUPER | Superannuation Contributions | \$ | 975.35 |
| DD26275.20 | 03/07/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER | Superannuation Contributions | \$ | 599.96 |

REPORT ITEM CCS 070 REFERS

| | | | | |
|------------|--|------------------------------|----|----------|
| DD26275.21 | 03/07/2018 PRIME SUPER | Superannuation Contributions | \$ | 977.18 |
| DD26275.22 | 03/07/2018 OAK TREE SUPERANNUATION FUND | Superannuation Contributions | \$ | 228.31 |
| DD26275.23 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 51.19 |
| DD26275.24 | 03/07/2018 FIRST SUPER | Superannuation Contributions | \$ | 200.49 |
| DD26275.25 | 03/07/2018 CARE SUPER PTY LTD | Superannuation Contributions | \$ | 403.77 |
| DD26275.26 | 03/07/2018 AMG SUPER | Superannuation Contributions | \$ | 432.54 |
| DD26275.27 | 03/07/2018 SPECTRUM SUPER | Superannuation Contributions | \$ | 353.65 |
| DD26275.28 | 03/07/2018 SUPERWRAP PERSONAL SUPER PLAN | Superannuation Contributions | \$ | 254.01 |
| DD26275.29 | 03/07/2018 NORTH PERSONAL SUPERANNUATION & PENSION FUND | Superannuation Contributions | \$ | 212.76 |
| DD26275.30 | 03/07/2018 AJW SUPERANNUATION FUND | Superannuation Contributions | \$ | 267.81 |
| DD26275.31 | 03/07/2018 WEALTH PERSONAL SUPERANNUATION AND PENSION FUND | Payroll Deductions | \$ | 1,444.12 |
| DD26275.32 | 03/07/2018 SUNSUPER SUPERANNUATION | Superannuation Contributions | \$ | 786.97 |
| DD26275.33 | 03/07/2018 MTA SUPERANNUATION FUND | Superannuation Contributions | \$ | 247.34 |
| DD26275.34 | 03/07/2018 IOOF EMPLOYEE SUPER | Superannuation Contributions | \$ | 323.10 |
| DD26275.35 | 03/07/2018 FIRST STATE SUPER | Superannuation Contributions | \$ | 189.72 |
| DD26275.36 | 03/07/2018 RUSSELL SUPERSOLUTION MASTER TRUST | Superannuation Contributions | \$ | 206.07 |
| DD26275.37 | 03/07/2018 ASGARD | Superannuation Contributions | \$ | 86.00 |
| DD26275.38 | 03/07/2018 ONEPATH MASTERFUND | Superannuation Contributions | \$ | 220.09 |
| DD26275.39 | 03/07/2018 MLC MASTERKEY SUPERANNUATION | Superannuation Contributions | \$ | 640.33 |
| DD26275.40 | 03/07/2018 THE UNIVERSAL SUPER SCHEME | Superannuation Contributions | \$ | 204.57 |
| DD26275.41 | 03/07/2018 AMP SUPERANNUATION SAVINGS | Superannuation Contributions | \$ | 57.78 |
| DD26275.42 | 03/07/2018 TTCSL ATF CRUELTY FREE SUPER | Superannuation Contributions | \$ | 82.86 |
| DD26275.43 | 03/07/2018 MACAULAY SUPER FUND | Superannuation Contributions | \$ | 227.39 |
| DD26275.44 | 03/07/2018 ANZ SMART CHOICE SUPER | Superannuation Contributions | \$ | 84.77 |
| DD26275.45 | 03/07/2018 FUTURE SUPER | Superannuation Contributions | \$ | 160.68 |
| DD26275.46 | 03/07/2018 COLONIAL SUPER RETIREMENT FUND | Superannuation Contributions | \$ | 191.54 |
| DD26275.47 | 03/07/2018 BT SUPER | Superannuation Contributions | \$ | 178.11 |
| DD26275.48 | 03/07/2018 AUSTRALIAN ETHICAL SUPERANNUATION FUND | Superannuation Contributions | \$ | 231.58 |
| DD26275.49 | 03/07/2018 MACQUARIE SUPER CONSOLIDATOR | Superannuation Contributions | \$ | 231.04 |
| DD26275.50 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 299.23 |
| DD26275.51 | 03/07/2018 IOOF INVESTMENT MANAGEMENT LTD | Superannuation Contributions | \$ | 236.78 |
| DD26275.52 | 03/07/2018 COLONIAL FIRST STATE WHOLESALE SUPER FUND | Superannuation Contributions | \$ | 213.53 |
| DD26275.53 | 03/07/2018 BT SUPER FOR LIFE | Superannuation Contributions | \$ | 134.04 |
| DD26275.54 | 03/07/2018 AMP SUPERANNUATION SAVINGS TRUST | Superannuation Contributions | \$ | 134.59 |
| DD26275.55 | 03/07/2018 ONEPATH LIFE LIMITED | Superannuation Contributions | \$ | 201.59 |
| DD26275.56 | 03/07/2018 MEDIA SUPER | Superannuation Contributions | \$ | 112.91 |
| DD26275.57 | 03/07/2018 IOOF GLOBAL ONE | Superannuation Contributions | \$ | 235.82 |
| DD26275.58 | 03/07/2018 BT BUSINESS SUPER | Superannuation Contributions | \$ | 229.05 |
| DD26275.59 | 03/07/2018 BENDIGO SMARTSTART SUPER | Superannuation Contributions | \$ | 224.91 |
| DD26275.60 | 03/07/2018 AMP SUPERANNUATION SAVINGS | Superannuation Contributions | \$ | 790.90 |
| DD26275.61 | 03/07/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION FUND | Superannuation Contributions | \$ | 284.89 |
| DD26275.62 | 03/07/2018 COLONIAL FIRST STATE FIRSTCHOICE PERSONAL SUPER | Superannuation Contributions | \$ | 638.65 |
| DD26275.63 | 03/07/2018 WEALTH PERSONAL SUPER AND PERSONAL PENSION | Payroll Deductions | \$ | 224.85 |

\$ 8,185,199.00

REPORT ITEM CCS 071 REFERS

| Document Number | Description | Date Sent / Received |
|-----------------|---|----------------------|
| EDR1882477 | COPY OF EXECUTED DOCUMENT ITEM: OCM 23.05.2017 ITEM CCCS028 RE: AWARD OF TENDER C18009 PURCHASE AND REMOVAL OF SCRAP METAL PARTIES: SIMS METAL MANAGEMENT SIGNED BY THE CEO A SHARPE 1 COPY | 18/06/2018 |
| EDR1882484 | COPY OF EXECUTED DOCUMENT ITEM: N/A RE: 2018-2019 REGIONAL LIBRARY ACTIVITY PLAN PARTIES: SLWA, SHIRES OF BROOMEHILL-TAMBELLUP, CRANBROOK, DENMARK, GNOWANGERUP, JERRAMUNGUP, KATANNING, KOJONUP AND PLANTAGENET SIGNED BY THE CEO A SHARPE 9 COPIES | 18/06/2018 |
| EDR1882542 | COPY OF EXECUTED DOCUMENT ITEM: N/A RE: AUSPICING A GRANT FOR GSDC FOR FORM TO DELIVER WORKSHOPS / CONSULTATION AROUND THE MINANG COMMUNITY AROUND THE UPGRADE TO ALISON HARTMAN GARDENS AND THE REFURBISHMENT OF MOKARE PARTIES: GSDC SIGNED BY THE CEO A SHARPE 3 COPIES | 19/06/2018 |
| EDR1882784 | COPY OF EXECUTED DOCUMENT ITEM: RE: APPLICATION FOR BUILDING APPROVAL FOR STORAGE OF RACEWARS PTY LTD MATERIALS AND EQUIPMENT PARTIES: N/A SIGNED BY: CEO ANDREW SHARPE (1 COPY) | 26/06/2018 |
| EDR1882775 | COPY OF EXECUTED DOCUMENT ITEM: RE: TRANSPORT SECURITY PROGRAM (TSP) FOR ALBANY REGIONAL AIRPORT PARTIES: N/A SIGNED BY: CEO ANDREW SHARPE (1 COPY) | 26/06/2018 |
| EDR1882845 | COPY OF EXECUTED DOCUMENT ITEM: RE: COA AGREED TO AUSPICE A GRANT AMOUNT OF \$4,000 FOR | 27/06/2018 |

REPORT ITEM CCS 071 REFERS

| Document Number | Description | Date Sent / Received |
|-----------------|--|----------------------|
| | <p>COUNTRY ARTS WA TO ENABLE J WALKER TO ACCESS CULTURE TO DELIVER A NAIDOC WEEK ARTS PROJECT PARTIES: COUNTRY ARTS WA SIGNED BY: CEO ANDREW SHARPE (2 COPIES)</p> | |
| EDR1882877 | <p>COPY OF EXECUTED DOCUMENT ITEM: RE: DEVELOPMENT APPLICATION FOR SEA CONTAINER TO BE ON SITE DURING FIELD OF LIGHTS PARTIES: N/A SIGNED BY: CEO ANDREW SHARPE (1 COPY)</p> | 28/06/2018 |
| EDR1882923 | <p>COPY OF EXECUTED DOCUMENT ITEM: RE: ACCEPTANCE BY THE CITY TO TAKE OWNERSHIP OF MRWA STRUCTURE 4223A PARTIES: MAIN ROADS WESTERN AUSTRALIA SIGNED BY: CEO ANDREW SHARPE (1 COPY)</p> | 29/06/2018 |
| EDR1882993 | <p>COPY OF EXECUTED DOCUMENT ITEM: N/A RE: APPLICATION FOR DEVELOPMENT APPROVAL BY OPTUS TO LAY OPTIC FIBRE CABLE THROUGH ROAD RESERVES AND ADJACENT LAND ZONED PARKS AND RECREATION RESERVE PARTIES: N/A SIGNED BY THE CEO A SHARPE 1 COPY PARTIES: N/A</p> | 02/07/2018 |
| EDR1883296 | <p>COPY OF EXECUTED DOCUMENT RECORD ITEM: N/A RE: DEVELOPMENT APPLICATION FOR ALISON HARTMAN GARDENS PARTIES: N/A SIGNED BY: MICHAEL COLE A/CHIEF EXECUTIVE OFFICER (1 COPY)</p> | 06/07/2018 |
| EDR1883443 | <p>COPY OF EXECUTED DOCUMENT ITEM: N/A RE: CONTRACT C17025 MIDDLETON ROAD UPGRADE, PROGRESS CERTIFICATE NO. 7 PARTIES: TRICOAST CIVIL SIGNED BY THE ACTING CEO M COLE 1 COPY</p> | 10/07/2018 |

REPORT ITEM CCS 071 REFERS

| Document Number | Description | Date Sent / Received |
|-----------------|--|----------------------|
| EDR1883484 | COPY OF EXECUTED DOCUMENT ITEM: N/A RE: APPLICATION FOR MAJOR COMMEMORATIVE EVENTS NOVEMBER 2018 - HIDDEN STORIES OF THE FORTRESS - LINKING THE ANZAC SPIRIT PARTIES: DEPARTMENT OF VETERAN AFFAIRS SIGNED BY THE ACTION CEO M COLE 1 COPY | 11/07/2018 |
| EDR1882778 | COPY OF COMMON SEAL DOCUMENT ITEM: RE: RENEWAL OF LOTTERIES HOUSE LEASE - THE FAMILY PLANNING ASSOCIATION OF WA IN PARTNERSHIP WITH PEOPLE 1ST PROGRAMME PARTIES: THE FAMILY PLANNING ASSOCIATION OF WESTERN AUSTRALIAN IN PARTNERSHIP WITH PEOPLE 1ST PROGRAMME SIGNED BY: CEO ANDREW SHARPE (1 COPY) | 26/06/2018 |
| NCSR1882511 | COPY OF COMMON SEAL ITEM: N/A RE: SUB-LEASE ON HANGAR 4 AT ALBANY REGIONAL AIRPORT PARTIES: TENANT - H WRIGHT & J SCHMIDT; SUB-TENANT - A SIMPSON SIGNED BY THE CEO A SHARPE NAD MAYOR D WELLINGTON 3 COPIES | 19/06/2018 |
| NCSR1882553 | COPY OF COMMON SEAL ITEM: N/A RE: MODIFICATIONS OF RESTRICTIVE COVENANT AFFECTING LOT 404 TO REFLECT CHANGES TO THE EASEMENT REALIGNMENT OF CARRIAGEWAY AFFECTING LOTS 402, 403, 404 AND 405 WHICH ADJOINS THE COLES ORANA SHOPPING CENTRE PARTIES: N/A SIGNED BY THE CEO A SHARPE AND MAYOR D WELLINGTON 3 COPIES | 20/06/2018 |
| NCSR1882780 | COPY OF COMMON SEAL DOCUMENT ITEM: RE: CONTRACT FOR C18005 KING RIVER VOLUNTEER BUSH FIRE BRIGADE EXTENSIONS TO SHED PARTIES: COLAB CONSTRUCTION PTY LTD | 26/06/2018 |

REPORT ITEM CCS 071 REFERS

| Document Number | Description | Date Sent / Received |
|-----------------|---|----------------------|
| | SIGNED BY: BY: CEO ANDREW SHARPE AND MAYOR DENNIS WELLINGTON (2 COPIES) | |
| NCSR1882785 | COPY OF COMMON SEAL DOCUMENT ITEM: RE: DEED OF VARIATION OF LEASE PEPPERCORN RENT FOR ALBANY CHILD CARE CENTRE INC PARTIES: ALBANY CHILD CARE CENTRE INC SIGNED BY: CEO ANDREW SHARPE (2 COPIES) | 26/06/2018 |
| NCSR1882922 | COPY OF COMMON SEAL DOCUMENT ITEM: RE: PURCHASE AND REMOVAL OF SCRAP METAL PARTIES: SIMS GROUP AUSTRALIA HOLDINGS LIMITED SIGNED BY: CEO ANDREW SHARPE AND MAYOR DENNIS WELLINGTON (2 COPIES) | 29/06/2018 |
| NCSR1883633 | COPY OF COMMON SEAL DOCUMENT ITEM: N/A RE: NOTIFICATION OF NO SEWER SERVICES BEING AVAILABLE PARTIES: SEASIDE BAY PTY TD JIM RICHARDS SIGNED BY: A/CEO MICHAEL COLE AND MAYOR DENNIS WELLINGTON | DATE SENT RECD |

Quarterly Report - Tenders Awarded - April to June 2018

| Contract Number | Name/Subject | Contractor | Start Date | Expiry Date | Contract Term | Local/Non Local | Local Content | Non Local Content | Tender Value (inc. GST) |
|-----------------|---|---------------------------------------|------------|-------------|----------------|-----------------|---------------|-------------------|-------------------------|
| C18006 (A) | Panel of Suppliers - Supply and Installation of Fencing | Albany Fencing Contractors | 23-Apr-18 | 22-Apr-20 | 2+1 | Local | 100% | 0% | Schedule of Rates |
| C18006 (B) | Panel of Suppliers - Supply and Installation of Fencing | Great Southern Boundaries | 23-Apr-18 | 22-Apr-20 | 2+1 | Local | 100% | 0% | Schedule of Rates |
| C18005 | King River Bush Fire Brigade Extension | Colab Construction Pty Ltd | 30-May-18 | 14-Nov-18 | End of Defects | Local | 100% | 0% | \$ 173,304.87 |
| C18009 | Purchase and Removal of Scrap Metal | Sims Group Australia Holdings Limited | 13-Jun-18 | 12-Oct-18 | On Supply | Non Local | 0% | 100% | Schedule of Rates |



CITY UPDATE

JUNE QUARTER 2017-2018

OUR VISION & VALUES






PERFORMANCE SNAPSHOT

| Service Delivery (from the Business Unit Plans) | Q1 | Q2 | Q3 | Q4 |
|--|-----------|-----------|-----------|-----------|
| Total Number of Deliverables | 352 | 352 | 352 | 352 |
| Number Complete | 36 | 61 | 68 | 196 |
| Number On Track | 266 | 239 | 236 | 116 |
| Number Monitor | 42 | 42 | 39 | 23 |
| Number Intervene | 8 | 10 | 9 | 17 |

| Finance (Net Operating Costs v Budget) | Q1 | Q2 | Q3 | Q4 |
|---|-----------|-----------|-----------|-----------|
| Office of CEO | | | | |
| Community Services | | | | |
| Corporate Services | | | | |
| Development Services | | | | |
| Infrastructure & Environment | | | | |




STATUS LEGEND

| | | | | | |
|---|----------------------|---|----------------------------|---|--------------------------------|
|  | Within Budget |  | Within 5% of budget |  | 5% or more above budget |
|---|----------------------|---|----------------------------|---|--------------------------------|

| People (HR Metrics) | Q1 | Q2 | Q3 | Q4 |
|--|-----------|-----------|-----------|-----------|
| Number of new Recruits | 17 | 2 | 20 | 11 |
| Number of Lost time injuries (LTI's) | 4 | 0 | 1 | 3 |
| Organisational Establishment (Number of FTE's) | 285 | 268 | 265 | 275 |
| Staff Turnover % (for the quarter) | 3.93% | 3.68% | 4.29% | 3.26% |

| Assets (Delivery Against Schedules) | Q1 | Q2 | Q3 | Q4 |
|--|-----------|-----------|-----------|-----------|
| Strategic projects | | | | |
| Capital works program | | | | |
| Preventive maintenance programs | | | | |

STATUS LEGEND

| | | | | | |
|---|-----------------|---|----------------|---|----------------|
|  | On Track |  | Monitor |  | On Hold |
|---|-----------------|---|----------------|---|----------------|

CEO KEY PERFORMANCE INDICATORS

| Regional Focus | Status | Progress |
|--|---|---|
| <p>Regional Alliance Promote the Alliance, growth planning and tourism development</p> <p>Explore and promote resource sharing arrangements</p> | <div style="background-color: #76b82a; width: 100%; height: 100%;"></div> | <ul style="list-style-type: none"> • Ongoing – via the Lower Great Southern Economic Alliance (LGSEA) and Regional Capitals Alliance. • Pursuing response from Minister A MacTiernan on second tranche of Growth Funding. • Resource sharing with Health and Planning and Building services. Discussions on IT have commenced and looking at opportunities. • Promotion of the Amazing South Coast brand by the Alliance is achieved and on-going. • Waste Management is being promoted on a regional basis with regular reporting to the LGSEA. • Tourism project has achieved regional delivery with the newly established Destination Marketing Organisation. • Shared policies, processes and systems with many other LG's. • CEOs meet regularly to discuss and promote Alliance resource sharing arrangements. Resource sharing with Health and Planning and Building services. • Discussions on IT have commenced and looking at opportunities in other service delivery areas. |
| <p>Economic Growth Plan Lead the City's contribution to develop a regional economic development strategy in consultation with the Alliance</p> | <div style="background-color: #e69d00; width: 100%; height: 100%;"></div> | <ul style="list-style-type: none"> • State funding for regional growth planning not provided in 2017/18. • Workshop held with LGSEA in April where it was agreed an action for 2018/19 would be the development of a sub-regional economic development plan. Actions formally endorsed by LGSEA in June 2018 and budget allocation provided. • A report seeking to engage a Consultant to develop sub-regional economic development plan Recommendation also going to LGSEA meeting in June 2018. |
| <p>Tourism Implement the Destination Marketing Strategy and Tourism Development Strategy as part of the Alliance</p> <p>Provide Council and the Alliance with guidance and recommendations on the proposal to form a Local Tourism Organisation (LTO)</p> <p>Ensure a smooth transition to the new Visitor Servicing Centre and explore a new operating model going forward</p> | <div style="background-color: #333333; width: 100%; height: 100%;"></div> | <ul style="list-style-type: none"> • DMS and TDS implemented. Strategy for 2018/2019 completed in conjunction with Tourism WA and ASW. • Recommendations for the model LTO/DMO were endorsed by Alliance and Council. Current organisation holding meetings to determine timelines for DMO. • Construction completed and new Visitor Centre opened to the public on Friday 30 March 2018 and officially opened on 20 April 2018. |

STATUS LEGEND



REPORT ITEM CCS 073 REFERS

| Projects | Status | Progress |
|--|--------|---|
| <p>External Funding</p> <p>Continue to lobby and advocate with State Government to ensure that the \$120m of election commitments (attached) are delivered to the community</p> | | <p>Mayor and CEO meets regularly with Peter Watson MLA to ensure funding commitments are kept. Funding secured for Centennial Park.</p> <p>Lobbying for funding for individual projects such as the Surf Reef and Motor Sports Park</p> |
| <p>Albany Heritage Precinct Upgrade</p> <p>Work with the National ANZAC Centre Advisory Group to develop and present a Albany Heritage Park Masterplan for consideration and adoption</p> | | <p>NAC Advisory Group engaged and meeting dates set.</p> <p>Community Advisory Group have had provided input into key initiatives.</p> <p>Initial Council briefing conducted in June 2018.</p> <p>Council workshop to be scheduled and broader community consultation to commence</p> |
| <p>Centennial Park Upgrade</p> <p>Progress the Centennial Park development project and advocate for the release of Stage 2 funding (\$6.9M) plus the Environmental Wetlands/Water Catchment project</p> | | <p>\$6.92 million State Funding secure and agreement in place. Consultation with user groups ongoing. Eastern Precinct (Junior football node) well advanced.</p> <p>Architect appointed for Junior football node. Construction of carpark area/promenade complete. Construction on Node shelter to commence November 2018 for completion prior to 2019 season. Detailed design for Central and Western Precincts underway. Council briefing conducted June 2018. Construction completion on schedule prior to October 2019.</p> |
| <p>Town Hall and Alison Hartman Gardens Enhancement</p> <p>Oversee community and Council engagement on the concept design and during project delivery</p> | | <p>Alison Hartman Gardens - First stage complete as part of Tourism and Info Hub. Second stage detailed design to commence following Council endorsement. Third stage dependant on timing of Student Housing development and to be aligned. Community forums undertaken Oct - Nov 2017. Construction to commence Nov 2018.</p> <p>Town Hall - Engagement with Community Advisory Group ongoing. Griffiths Architect and PTX Architects awarded the architectural project which was endorsed by council.</p> |
| <p>Trails Concept Plan</p> <p>Keep Council and the Community informed and seek external funding to advance the Trails Concept Plan</p> | | <p>Flora/Fauna surveys for Stage 1 (Albany Heritage Park) complete. Detailed design commenced. Funding allocated in 2018/2019 budget for consideration external funding not secured at this stage. Projected included in the Mounts Master Plan.</p> |
| Governance | Status | Progress |
| <p>Community Strategic Plan</p> <p>Ensure adoption by September 2017 and provide ongoing reporting to Council on the agreed outcomes</p> | | <p>Corporate Scorecard developed and presented to Council on a quarterly basis showing progress against Business Plans and Community Strategic Plan.</p> |
| <p>Align the CEO Key Results Areas to the key themes and deliverables within the Community Strategic Plan</p> | | <p>Ongoing. CEO is workshopping with elected members to finalise KPIs for 2018/19 aligned to Community Strategic Plan. Discussions are ongoing.</p> |
| <p>Albany Local Planning Strategy (ALPS)</p> <p>Finalise strategy and present to Council</p> | | <p>ALPS is on track, and being prepared for advertising and consultation in July.</p> |
| <p>Committees</p> <p>Work with Council to review the effectiveness of the Committee structure and processes</p> | | <p>Report of review presented to Council in May 2018.</p> <p>Very effective meetings with high quality business papers provided to Council.</p> |
| <p>Elected Member Development</p> <p>Continue to develop and implement a program involving ongoing training and development sessions including</p> | | <p>Induction program run after Oct 2017 elections.</p> <p>Alliance members invited to training.</p> <p>Council focus group established. Have met several times and feedback taken on board.</p> |

| Organisational | Status | Progress |
|--|--------|--|
| <p>Containment of Recurrent Funding</p> <p>Continue to explore alternative funding mechanisms that benefit the City's current operating budget Use the business planning framework to review the overall cost of service delivery</p> | | <p>BBRF, Regional Growth Fund and City Deals applications lodged and being progressed. \$120M plus achieved funding as a result of the investment prospectus development and presented as part of State Election pitch. Business Planning Framework developed and covers all service delivery areas. Managers presented to Council at a workshop.</p> |
| <p>Communication Strategy</p> <p>Develop a Council strategy to improve communication with residents and businesses</p> | | <p>Project plan completed. Briefing to Council occurred 17 April 2018. Project and engagement schedule completed to commence in July/August 2018.</p> |
| <p>Corporate Scorecard</p> <p>Review and update Business Plans annually for all service delivery teams</p> | | <p>Business plans reviewed and updated for all service delivery teams</p> |
| <p>Align Business Plans with Intergrated Planning framework & Annual Budget</p> | | <p>Business plans incorporated into the Integrated Planning Framework and 2017/18 and 2018/19 budgets</p> |
| <p>Incorporate the Corporate Scorecard into Council reporting framework</p> | | <p>Corporate Scorecard presented to Council quarterly. Improved format introduced in December quarter.</p> |
| <p>Organisational Development Program</p> <p>Continue to implement organisation development and the development of leaders</p> | | <p>Leadership training was delivered for all staff on an 'as needs' basis with dedicated programs at Executive / Manager and Supervisor / Team Leader levels. Increased focus on the use of secondments to offer existing staff opportunities for leadership development.</p> |
| <p>Customer Service</p> <p>Implement and monitor a Customer Service Charter and program that is informed by internal and external stakeholder feedback</p> | | <p>Reviewed organisation customer service levels. This includes conducting a review of all Community Services Business Units via survey. Based on the analysis of the data provide a report to EMT with recommendations and a proposed framework. Proposal and Project Plan endorsed with Terms of Reference. Working Group convened 9 April. Two meetings held - draft Customer Service Charter circulated for comment.</p> |

STRATEGIC PROJECTS OVERVIEW

PURPOSE: Delivering cross-directorate projects aligned with the strategic plan and key priorities.

| Project Details | Status | Progress |
|---|--------|--|
| <p>Albany Tourism & Information Hub</p> <p>Reporting Directorate: Infrastructure & Environment</p> | | <p>Completed in April 2018. Construction contract close out in final phase. Defects Liability Period in place until April 2019. Commercial tenancy tender has been released.</p> |
| <p>Albany Public Library Enhancement</p> <p>Reporting Directorate: Community Services</p> | | <p>Library Enhancement completed in March 2018.</p> |
| <p>ANZAC 2018</p> <p>Reporting Directorate: Community Services</p> | | <p>Field of Light installation preparation is underway for October 2018 - April 2019.</p> |
| <p>Albany Heritage Park Master Plan</p> <p>Reporting Directorate: Corporate Services</p> | | <p>Master plan workshops were conducted with Elected Members and Community Advisory Group, in preparation for future community engagement process.</p> |

REPORT ITEM CCS 073 REFERS

| Project Details | Status | Progress |
|---|--------|---|
| <p>Middleton Beach Foreshore Management Plan Reporting Directorate: Development Services</p> | | Community engagement undertaken jointly with LandCorp has been successfully completed. Updates are being undertaken by LandCorp in response to community engagement. BBRF funding has been successful. Preliminary design works for the Middleton Beach Foreshore will commence shortly |
| <p>Town Hall Enhancement Reporting Directorate: Community Services</p> | | Planning has continued for the Town Hall. The tender for Architectural Services will be appointed at the July OCM to commence the design phase. CoA Art Collection has been permanently moved to the Town Hall in June. |
| <p>Alison Hartman Gardens Enhancement Reporting Directorate: Infrastructure & Environment</p> | | First project phase (Courtyard) completed in April 2018 as part of the Albany Tourism & Information Hub project. Detailed design for the second phase has commenced. Engagement workshops with key stakeholders have been regularly held since Nov 2017. |
| <p>Coastal Hazard Risk Management & Adaptation Plan - CHRMAP Reporting Directorate: Infrastructure & Environment</p> | | Commenced in February 2018. Survey completed to obtain community values. Draft CHRMAP due November 2018 |
| <p>Middleton Beach Artificial Surf Reef Reporting Directorate: Infrastructure & Environment</p> | | Currently completing application to the EPA for approvals. |
| <p>Emu Point Boat Pens Reporting Directorate: Infrastructure & Environment</p> | | Council has awarded contract for works and is coordinating the temporary relocation of existing pen holders. Demolition has commenced. |
| <p>CPSP Stage 2 Eastern AFL Junior Node Reporting Directorate: Infrastructure & Environment</p> | | Civil Works on Junior node 90% complete minor asphalt remaining, design architect in progress, building works to be tendered August 2018 |
| <p>CPSP Stage 2 Central Reporting Directorate: Infrastructure & Environment</p> | | Currently in design development. Implementation in Summer 2019. |
| <p>CPSP Stage 2 Western Reporting Directorate: Infrastructure & Environment</p> | | Implementation of works starting October 2018 and continuing throughout 2019, including extension of promenade, civil works and landscape. |
| <p>Albany Waste Facility Reporting Directorate: Infrastructure & Environment</p> | | Waste Management Working Group (WMWG) has been established and consultants have commenced the site selection study. Officers are assessing initial site selection results. |
| <p>Range Road Reporting Directorate: Infrastructure & Environment</p> | | Land acquisition activities are ongoing and progressing. |
| <p>Albany Motor Sports Park 2020-21 Reporting Directorate: Infrastructure & Environment</p> | | State Govt. progressing a state-wide motorsport strategy expected in the second half of the year. City has been successful in obtaining \$99,800 funding for feasibility for Down Road Site. GHD appointed consultants progressing feasibility to be complete by September 2018. |
| <p>Chillinup Rd - Heavy Vehicle Upgrade Reporting Directorate: Infrastructure & Environment</p> | | Funding application made to Federal Government and State Initiatives. Project value approx. \$7.0million. Awaiting outcome. |

STATUS LEGEND

| | | | | |
|--|-----------------|-----------------|----------------|----------------|
| | Complete | On Track | Monitor | On Hold |
|--|-----------------|-----------------|----------------|----------------|





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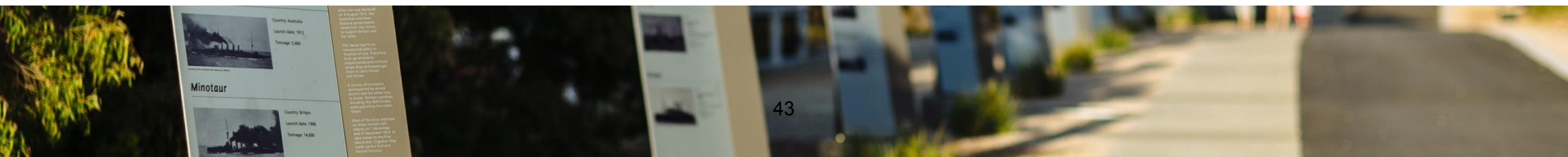
REPORT ITEM CCS 074 REFERS



National Anzac Centre
CCCS Committee
Q4 2017/18 Update

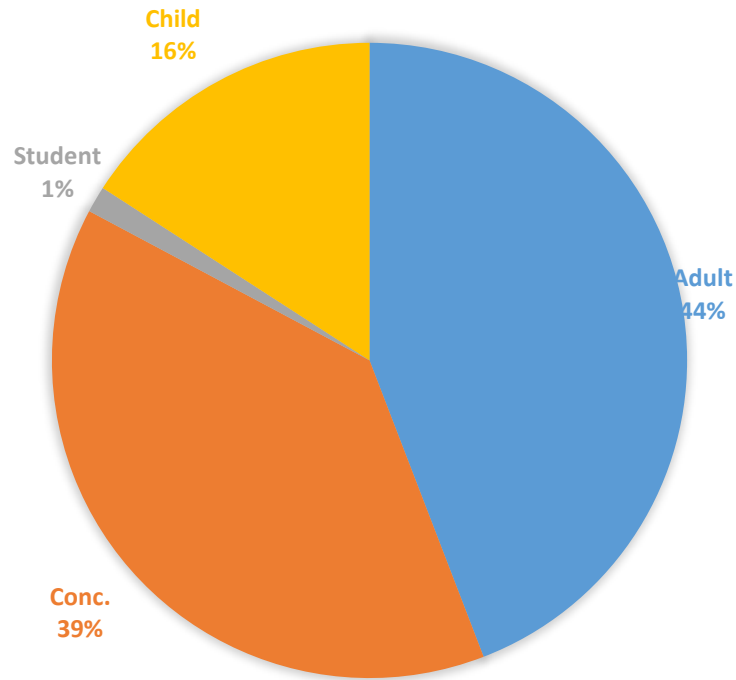
NATIONAL ANZAC CENTRE VISITATION Q4

| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | Totals |
|-----------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|--------|
| 2014/15 Actual | 0 | 0 | 0 | 0 | 10 001 | 6 433 | 9 778 | 5 855 | 8 735 | 11 246 | 5 707 | 3 420 | 61 175 |
| 2015/16 Actual | 5 047 | 3 402 | 5 575 | 6 646 | 5 442 | 5 714 | 9 777 | 4 526 | 7 444 | 6 945 | 3 905 | 3 264 | 67 687 |
| 2016/17 Actual | 4 300 | 2 928 | 5 616 | 6 016 | 4 440 | 5 123 | 7 639 | 4 192 | 5 751 | 7 534 | 4 143 | 2 952 | 60 634 |
| 2017/18 Actual | 3 927 | 3 296 | 6 242 | 6 576 | 4 100 | 4 721 | 7 336 | 4 305 | 5 430 | 7 228 | 3 793 | 2 383 | 59 337 |

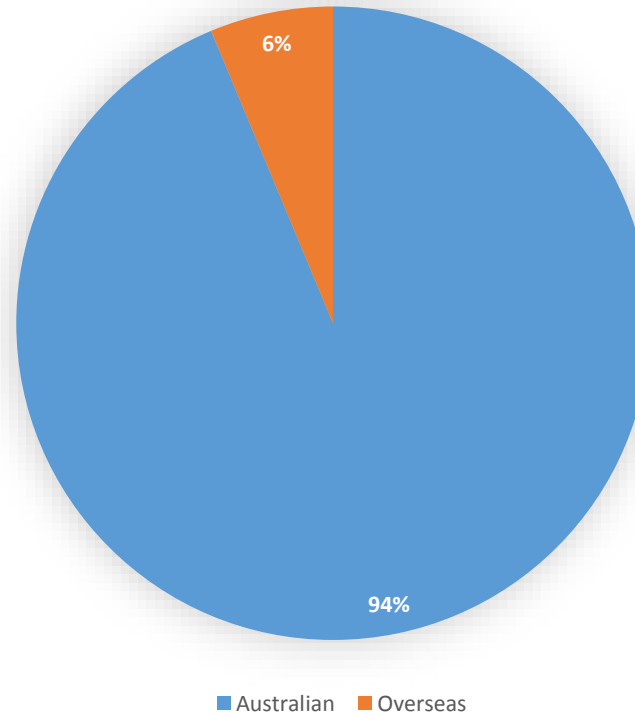


Visitation Type & Demographics Q4

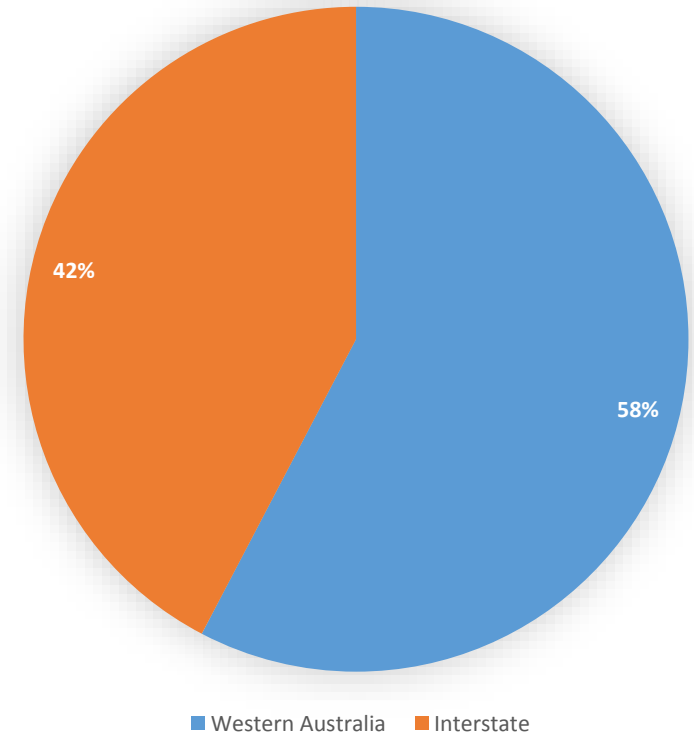
Visitation Type Apr to Jun



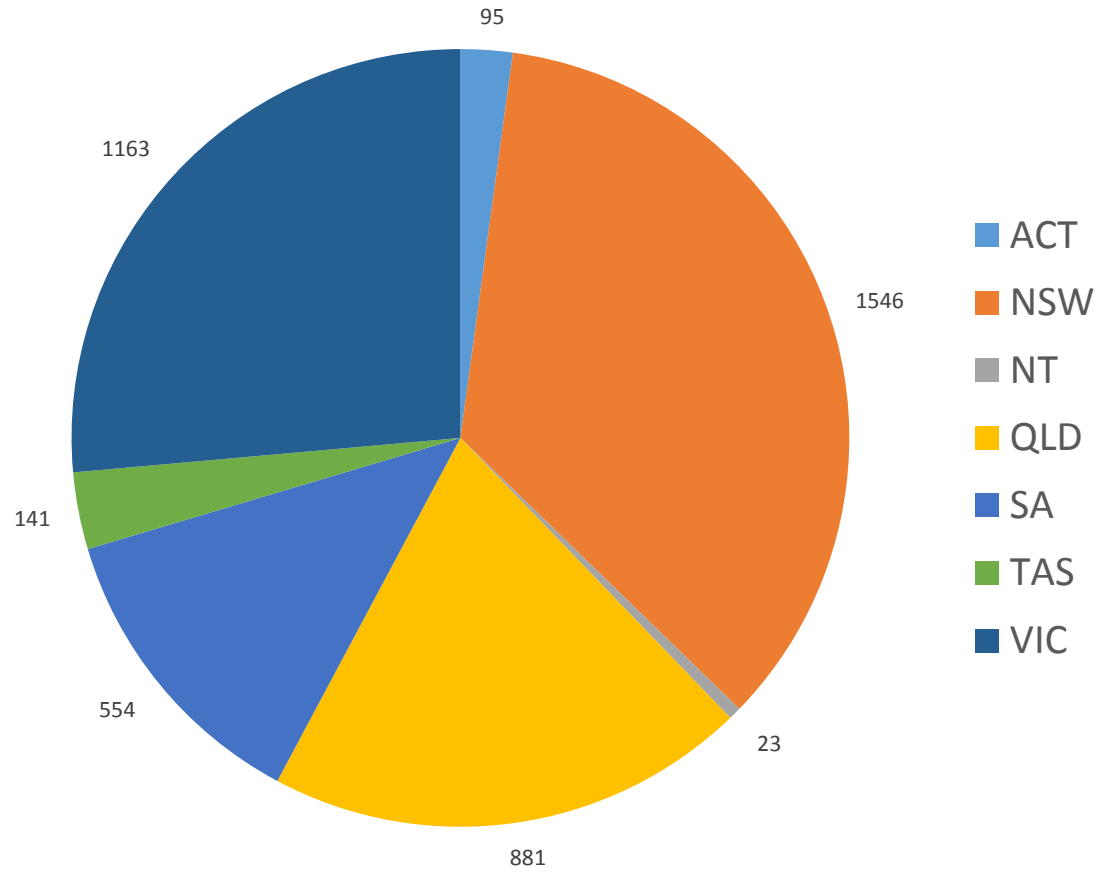
Australian / Overseas



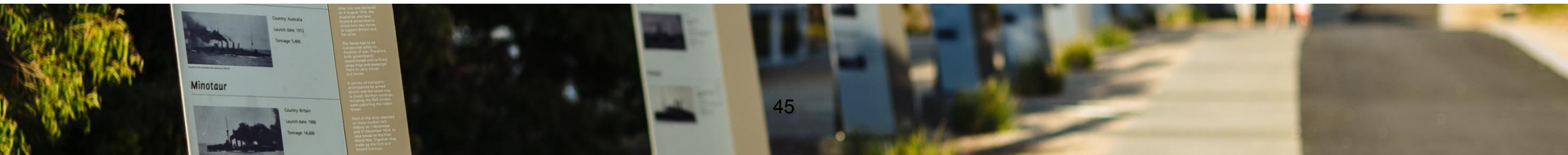
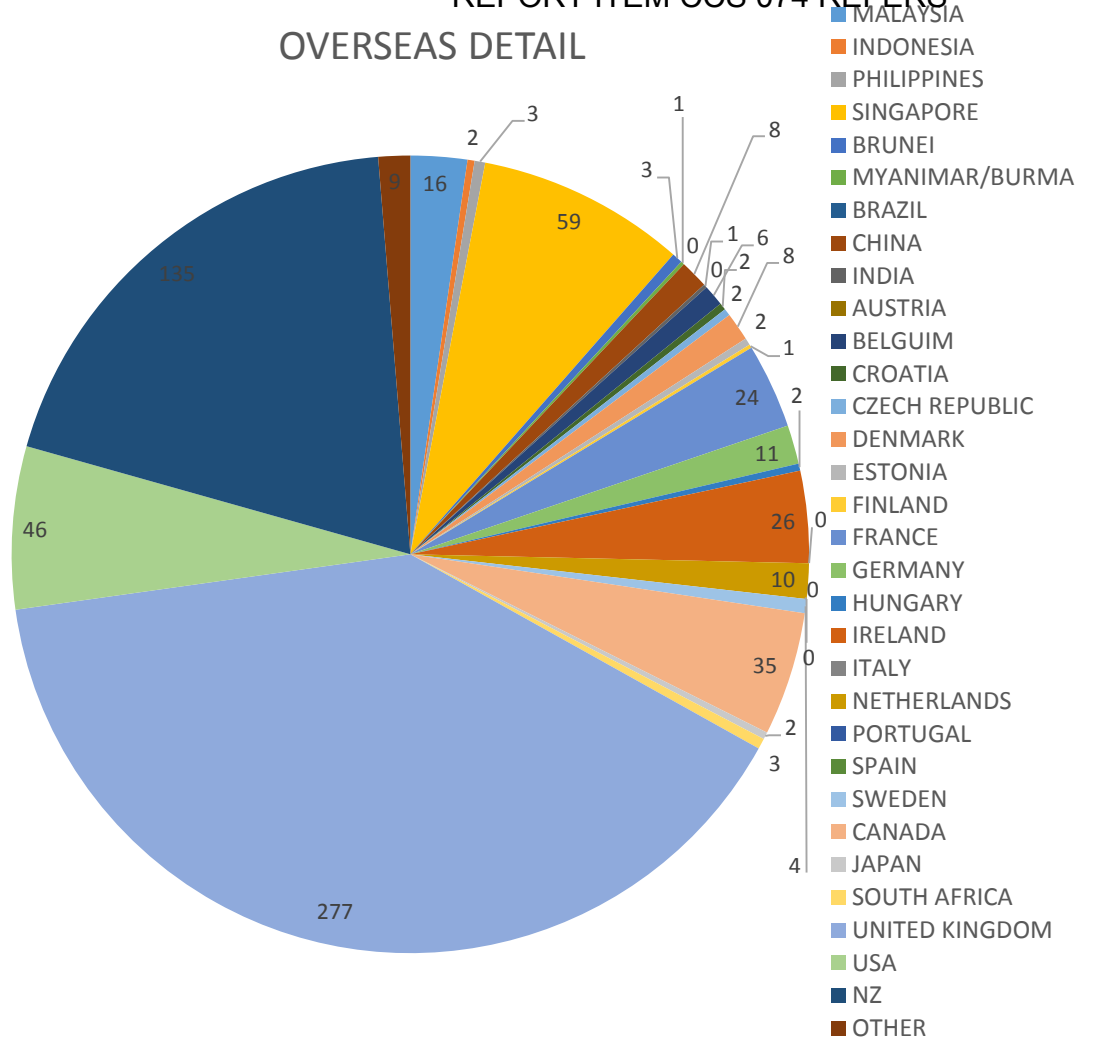
WA / Interstate



INTERSTATE DETAIL

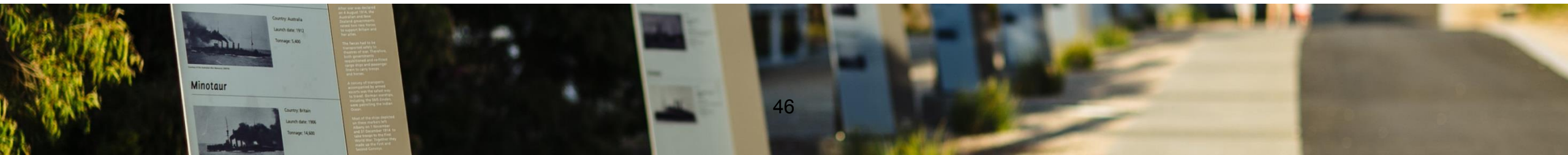
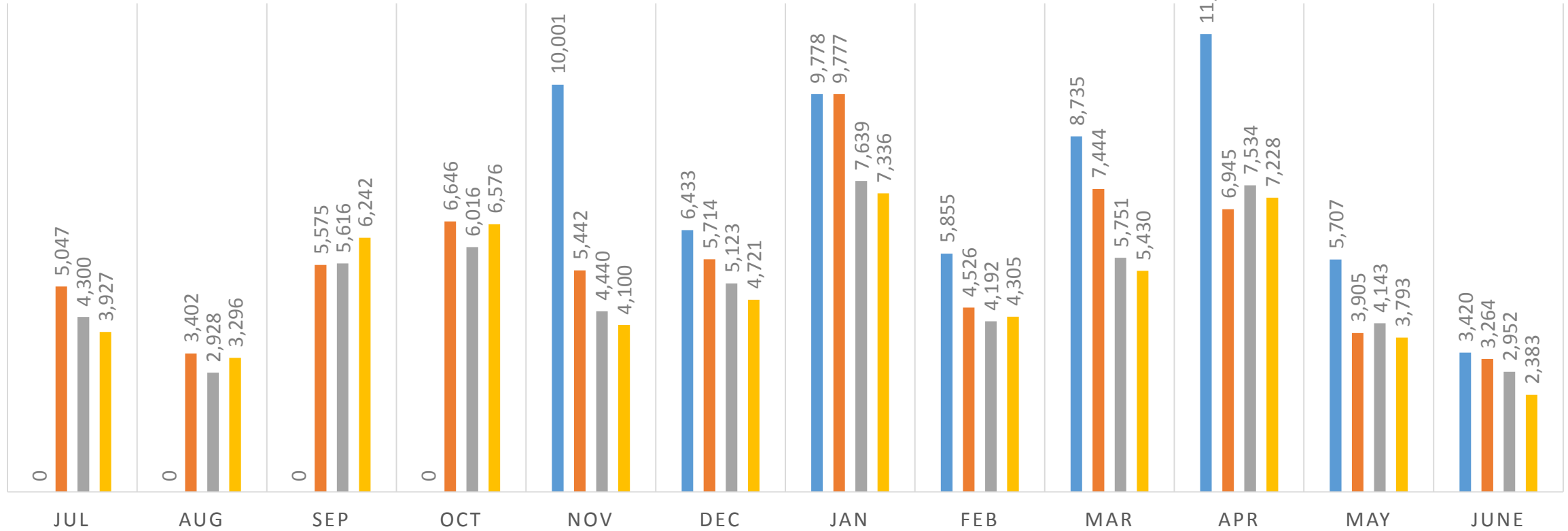


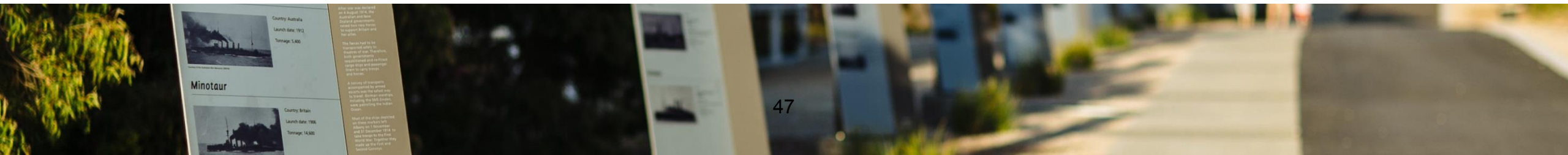
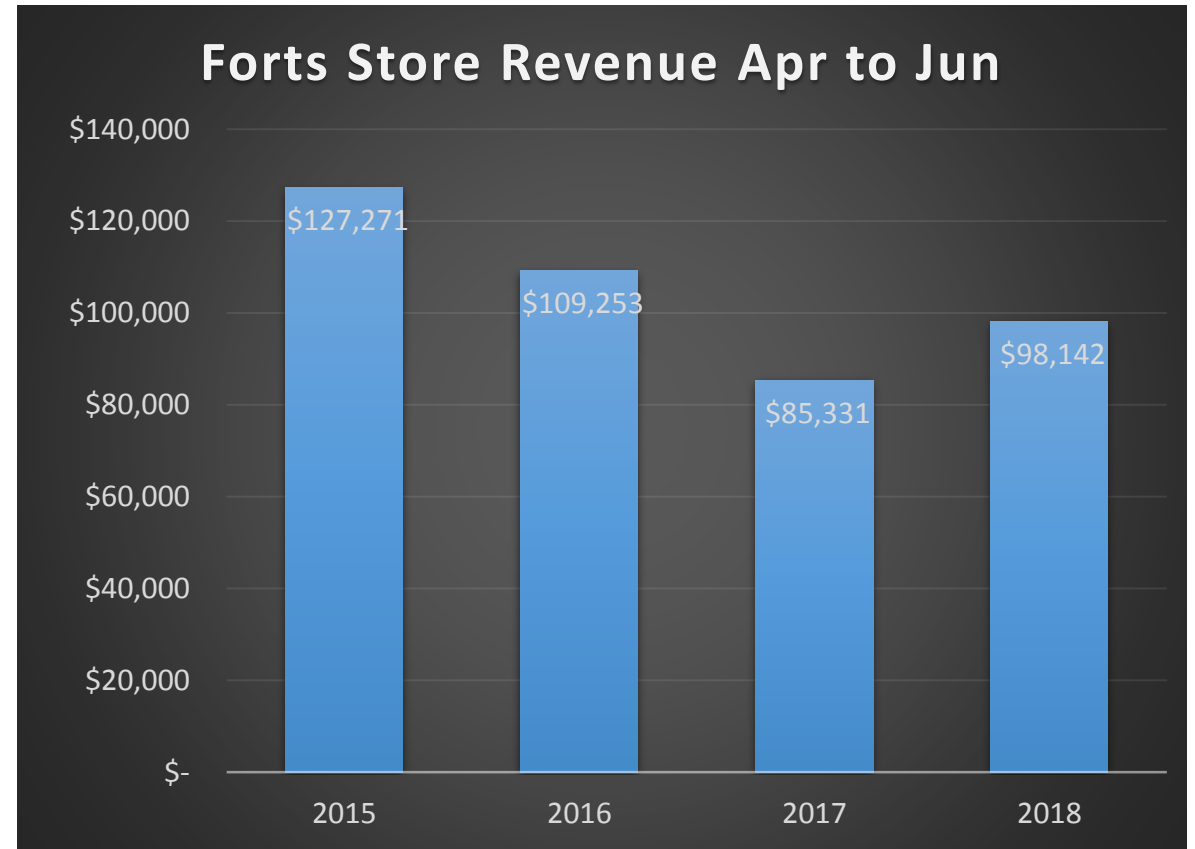
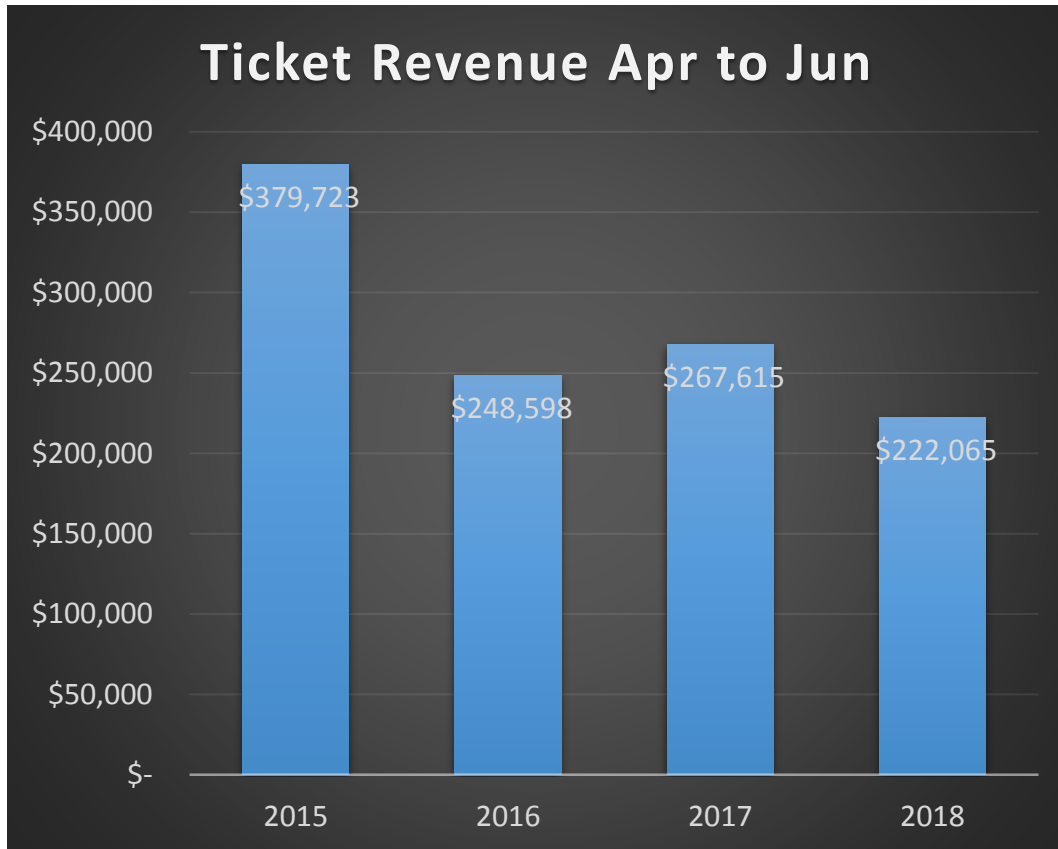
REPORT ITEM CCS 074 REFERS OVERSEAS DETAIL



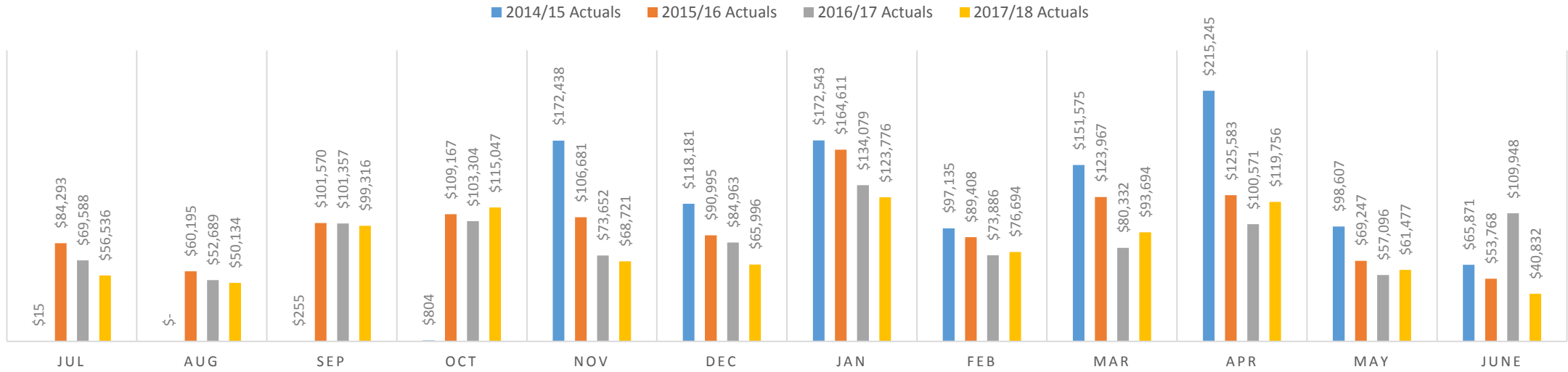
VISITATION - FINANCIAL YEAR COMPARISONS

■ 2014/15 Actual ■ 2015/16 Actual ■ 2016/17 Actual ■ 2017/18 Actual

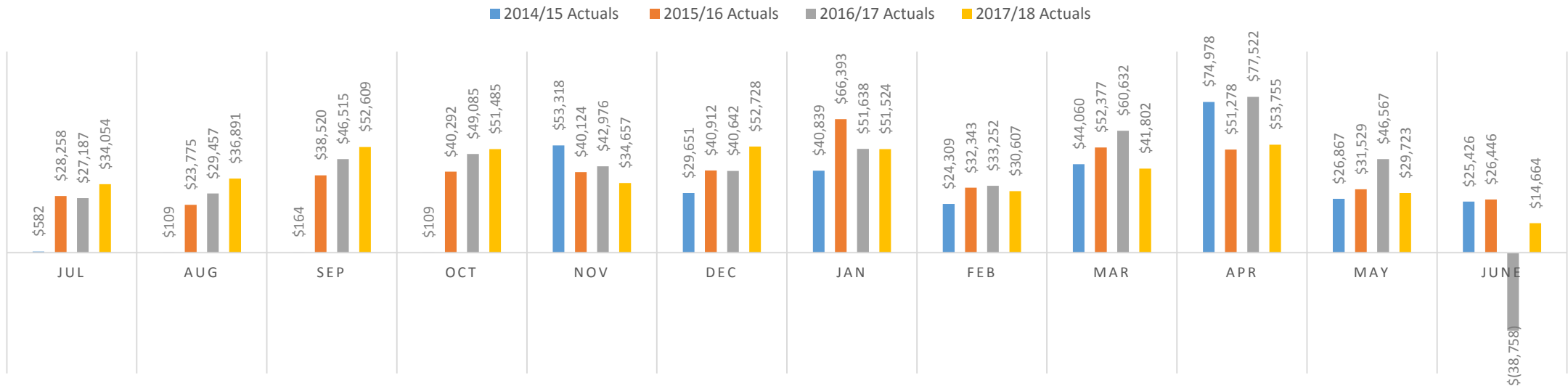




NAC REVENUE - FINANCIAL YEAR COMPARISONS



STORE REVENUE - FINANCIAL YEAR COMPARISONS



LOCAL LEGENDS UPDATE

| Membership | @ 31 Dec 2017 | @ 31 Mar 2018 | @ 30 Jun 2018 |
|--------------------|---------------|---------------|---------------|
| Adult Members | 1123 | 1352 | 1530 |
| Concession Members | 593 | 739 | 847 |
| Child Members | 278 | 314 | 363 |
| Total | 1994 | 2405 | 2740 |



CONGRATULATIONS. YOU JUST BECAME A LOCAL LEGEND.

The National Anzac Centre League of Local Legends exists to provide Albany locals with greater opportunities to access one of our community's most important and nationally significant cultural assets - the award winning National Anzac Centre. By joining the program locals will be able to access a range of benefits including a cheaper way to experience Albany's connection to the ANZAC legend. It is free to join and the only requirement is that you reside within the municipal boundary of the City of Albany or are a ratepayer.

TO JOIN THE PROGRAM REGISTER NOW AT:

WWW.NATIONALANZACCENTRE.COM.AU/LOCALLEGENDS



By joining the League of Local Legends you will be entitled to the following benefits:

- Receive 50% discount on standard entry prices to the National Anzac Centre
- Enter the National Anzac Centre for free if you are chaperoning a paying visitor
- The paying visitors you chaperone receive a 10% discount on entry to the National Anzac Centre
- Receive a 10% discount on purchases at the Forts Store Boutique
- Special offers at Garrison Restaurant
- You will be notified via email about a range of exciting events and programs we will be running for our local legends

2017-18 HIGHLIGHTS

- Online ticketing and retail project underway
- Exceeded 248,000 visitors since opening
- Certificate of Excellence – TripAdvisor
- Guard House refurbished and open as an exhibition space
- Volunteer Tea Room refurbished
- Local legends program continues strong growing membership
- 24 Gun Salutes attended by close to 3000 people
- 15 Donations made to date to PRF 2017/18
- 7 exhibitions in Princess Royal Fortress for community viewing 2017/18
- 25 schools visited the NAC with several groups of children
- Official welcome to Western Australia of the Queens Baton Relay
- ANZAC Albany Festival and Convoy Campout
- Grant application submitted *Saluting Their Service Commemorations Program, Major Commemorative Grants*



2018/19 Focus

- Programming and marketing for Anzac Albany 2018
- Field of Light installation commences on Avenue of Honour / packages
- New Audio Pens for National Anzac Centre
- Planning for new precinct wide interpretive technology
- Retail and online ticketing integration for website
- Albany Heritage Park Master Plan
- Planning around content refresh for National Anzac Centre, in partnership with WA Museum
- Planning around implementation of education program
- Marketing of the winter experience visiting the NAC and winter merchandise in the Forts Store
- Honouring Albany's Own Exhibition linking with the Field of Light on Avenue of Honour
- Cruise Ship visitation
- Development and implementation of packages and partnerships for joint entry passes





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REPORT ITEM CCS 074 REFERS



Thank you

Albany Athletics
Albany Little Athletics Club
PO Box 439
Albany WA 6330

Susan Kay
Executive Director: Community Services
City of Albany
102 North Road
Yakamia WA 6330

Dear Susan,

RE: CSRFF Small Grant application – Albany Athletics Albany Little Athletics Club

Albany Athletics and Albany Little Athletics Club would like to apply for a contribution of \$6958.60 from the City of Albany Capital Seed Fund as part of their CSRFF Small Grant application for funding to enable the club to upgrade our run up tracks for Long and Triple Jumps.

The funding will enable the club to commission a fully accredited run up for our jump pits which will bring our run ups to the same standard that is available in other regional and metropolitan areas.

We feel that the run ups that we currently have are not to a good safety standard for our members, as there has been injuries on these run ups including a fractured skull.

The club can confirm that no on-going or additional funds will be sought from the City of Albany for the project, and that the club will take full responsibility for meeting any additional costs (over and above that which has budgeted) should they arise.

As Little Athletics is a growing sport we would love to see the city help us reach this goal.

Thank you for your consideration.

Jorja Camp
President
Albany Little Athletics Club



Emu Point Sporting Club (Inc.)
2 Birss St
Emu Point
Albany WA 6330

Friday, 27 July 2018

Ms Susan Kay
Executive Director Community Services
City of Albany
PO BOX 484,
Albany WA 6331

Dear Susan,

On behalf of Emu Point Sporting Club Inc I am writing to you regarding the Disability & Special Needs Toilet Project for the club.

As part of the application for funding for the Disability Toilet CSSRFF Application Emu Point Sporting Club Inc would need to give assurance to other funding providers that we have money available for their share of the project if the application is granted.

The project cost is projected to be a total of \$62,561.00 with Emu Point Sporting Club Inc one third contribution being \$20,853.00 for which we would be asking the City of Albany and Department of Sport and Recreation to contribute the same amount each because we do not have the capacity to fund the full cost of the project.

The board of Emu Point Sporting Club Inc are committed to this project and would be happy to give assurance that money required for their share would be available when ever it is needed.

The minutes of the board 15th January 2018 page 2 had a motion which indicated full support of the committee looking at this issue lead by Gus Woithe, Murray Field and Colin Veal as support. Please find a copy of the board minutes as part of the Disability Toilet CSSRFF Application

If funding is needed as a board we will provide that on the understanding that we have other funding contribution from a number of other sources, which may include the City of Albany, Dept of Sport & Recreation we do not have the capacity to fund the full project on our own.

I am looking forward to you reply.

Yours faithfully

A handwritten signature in black ink that reads "Murray Field". The signature is written in a cursive style.

(Mr) Murray Field
Board Member
(Emu Point Sporting Club (Inc.)
Phone 08 9842 8692 Mobile 0429 632 157
Email mfield@wn.com.au

Chester Pass Branch Incorporated Sporting Shooters Association Australia

Susan Kay
City of Albany
PO Box 484
Albany WA 6331

19 July 2018

Dear Susan

COMMUNITY SPORTING AND RECREATION FACILITIES FUND – CHESTER PASS BRANCH SSAA APPLICATION FOR CAPITAL SEED FUNDS FROM THE CITY OF ALBANY

The Chester Pass Branch of the Sporting Shooters Association Australia (Albany Pistol Club) is a growing sporting club which provides a safe and responsible environment for members to compete in the sport of target shooting of many different disciplines. Our current membership is 183 members which has been steadily increasing for many years, including people from many demographics including juniors, adult members, families and retirees. The clubs goals are to ensure that safety is assured through adequate facilities, training / supervision of members, safe procedures and firing line control by range officers.

Our facilities are utilised for many disciplines of target shooting including several types of pistol competition, bench rest rifle, metal silhouette and clay target shooting. Any member may utilise the facilities for general practice or train for State, National or International competitions of their chosen discipline. On occasion our facilities are utilised for State level of competition and we hope to improve our facilities to attract more to the region.

One of the internationally recognised competitions catered for at our facilities is benchrest rifle on range 4, due to our growing membership a need for a new larger firing line shelter has been identified. Currently the number of bench rest competitors requires extra rounds of shooting as the current facility is aging and is too small for the current number of competitors to shoot at the same time. A larger facility will allow the installation of new shooting benches and provide a safer environment by providing room for shooters, their equipment and allow the safe accommodation of family and spectators. The range is also utilised to train junior members, carry out safety briefings and training to new members, general practice and by visiting groups such as the Naval Cadets.

Due to the above, Chester Pass Branch SSAA proposes to construct a larger firing line shelter for range 4 at our club facilities located on Simpson Road near Bakers Junction within the City of Albany rural area. This new facility will replace an aging structure which no longer has the capacity to contain the numbers of competitors and the associated spectators.

To assist us in the funding of this proposal we are applying for funding under the Community Sporting and Recreation Facilities Fund program.

As part of this application we request that the City of Albany contribute 1/3 of the projected project costs. The total project cost is \$22759.00, we therefore request that the City of Albany contribute \$7586.34 from Capital Seed Funds towards the proposed facility improvements.

For your consideration.

Yours sincerely

A handwritten signature in black ink, appearing to read "C Grant".

Chris Grant
Treasurer
Chester Pass Branch SSAA
Ph: 0427 388 047

Albany Bowling Club Established 1899

PO Box 140 Albany WA 6330

www.albanybowlingclub@bigpond.com

Susan Kay

Executive Director; Community Services

City of Albany

Yakamia

WA 6330

Dear Susan

RE: CSRFF Small Grant application - Albany Bowling Club

The Albany Bowling Club would like to apply for a contribution of \$56,639.00 through the Seed Fund from the City of Albany as part of their CSRFF Small Grant Application to enable a replacement of the Club's "B" Green surface. The Green's surface is past its lifetime and we have had complaints from a number of bowlers. The Club annually hosts three major two-day events, which attracts bowlers to the City of Albany. They travel from as far south as Esperance, Augusta in the west Lake Grace in the east and Perth in the north. As well as bowlers within the Lower Great Southern Zone. Many of these bowlers stay at motels and some stay at Caravan Parks and some bring their spouses. The Club is on a roster to host League events which involves Club champions from the other Clubs in our League playing off against each other.

The Club is also on a roster to host the Inter League Round Robin which involves twenty-four of the best bowlers in each of the six Leagues including our own. These bowlers expect a good quality surface and "B" Green is our showcase Green as it is directly in front of the club house.

The Club can confirm that no on-going or additional funds will be sought from the City of Albany for the project, and that the Club will take full responsibility for meeting additional costs (over and above that which has been budgeted) should they arise.

Your sincerely

Peter Galante

Acting Secretary, Albany Bowling Club

PROJECT ASSESSMENT SHEET

This page is for the use of the relevant Local Government Authority to be used for both community and LGA projects. Please **attach copies of council minutes** relevant to the project approval.

| |
|---|
| Name of Local Government Authority: City of Albany |
| Name of Applicant: Albany Bowling Club |

Note: The applicant’s name cannot be changed once the application is lodged at DLGSC.

Section A

The CSRFF principles have been considered and the following assessment is provided:
(Please include below your assessment of how the applicant has addressed the following criteria)

All applications

| | Satisfactory | Unsatisfactory | Not relevant |
|---|-------------------------------------|--------------------------|--------------------------|
| Project justification | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Planned approach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Community input | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Management planning | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Access and opportunity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Design | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Financial viability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Co-ordination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Potential to increase Physical activity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sustainability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Section B

| | |
|---|---|
| Priority ranking of no of applications received | Four of Four applications received |
| Is this project consistent with the | <input checked="" type="checkbox"/> Local Plan <input type="checkbox"/> Regional Plan |
| Have all planning and building approvals been given for this project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, what approvals are still outstanding? | |

Project Rating (Please tick the most appropriate box to describe the project)

- A Well planned and needed by municipality
- B Well planned and needed by applicant
- C Needed by municipality, more planning required
- D Needed by applicant, more planning required
- E Idea has merit, more planning work needed
- F Not recommended

Please complete the questions attached. This assessment is an important part of the CSRFF process and your answers to these questions assist the committee make their recommendations, even if you are the applicant. Please provide a summary of any attachments in your assessment, rather than referring to attachments or external documents such as Council Minutes.

- 1. Please confirm your contribution to the project, whether it has been formally approved (including financial year for which it is approved) and any conditions on the funding. If no funding has been provided, why not?**

The City of Albany confirmed its contribution to the project at the August OCM 2018. Please see the attached council item.

The funding contribution is reliant upon a successful CSRFF application – if unsuccessful the funds are returned to the pot and the club must apply again or alternately they can proceed with the project and fund the remaining parts.

- 2. A) If a community group application: Do you believe the project is financially viable, including the applicant's ability to provide upfront contributions, ongoing payments and contributions to an asset replacement fund. Does council commit to underwriting any shortfalls as the ultimate asset owner?**

The application is a community group application and the project forms part of the Albany Bowling Clubs suite of facilities. The City of Albany is not responsible for any ongoing maintenance of the project. The club is wholly responsible.

Council has provided no commitment to underwriting any shortfalls. Based on the information received the club is financially sound, has an asset replacement fund and can meet the commitment.

B) If a council application: Is Council fully aware of the ongoing cost of operating and maintaining this facility and does your organisation have the capacity to service it into the future? How are the user groups contributing to the ongoing cost of operating the facility?

- 3. Please provide any additional comments regarding this applications merit against the assessment criteria to support your project rating and ranking.**

The Albany Bowling Club synthetic green surface has reached the end of its life and doesn't meet the current safety standards and are considered unsafe.

The City of Albany is supportive of this project for the following reasons:

- Bowls is recognised as a key sport for the Great Southern and Albany. The Albany clubs form part of Bowls WA.*
- This project is aimed at refurbishment of the Bowling B Green in the Lower Great Southern Bowling League. More specifically, these funds will allow the Albany Bowling Club to build a new synthetic green surface*
- The existing facility is no longer considered safe, and has to be removed. These need to be replaced by a safer facility constructed to the facility guidelines.*

Signed

Position: Manager Recreation Services

Date
2/8/2018

Applications for CSRFF funding must be submitted to your Department of Local Government, Sport and Cultural Industries office by **4pm on 28 September 2018**. Late applications cannot be accepted in any circumstances.

PROJECT ASSESSMENT SHEET

This page is for the use of the relevant Local Government Authority to be used for both community and LGA projects. Please **attach copies of council minutes** relevant to the project approval.

| |
|---|
| Name of Local Government Authority: City of Albany |
| Name of Applicant: Albany Athletics |

Note: The applicant’s name cannot be changed once the application is lodged at DLGSC.

Section A

The CSRFF principles have been considered and the following assessment is provided:
(Please include below your assessment of how the applicant has addressed the following criteria)

All applications

| | Satisfactory | Unsatisfactory | Not relevant |
|---|-------------------------------------|--------------------------|--------------------------|
| Project justification | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Planned approach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Community input | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Management planning | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Access and opportunity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Design | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Financial viability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Co-ordination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Potential to increase Physical activity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sustainability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Section B

| | |
|---|---|
| Priority ranking of no of applications received | Two of Four applications received |
| Is this project consistent with the | <input checked="" type="checkbox"/> Local Plan <input type="checkbox"/> Regional Plan |
| Have all planning and building approvals been given for this project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, what approvals are still outstanding? | |

Project Rating (Please tick the most appropriate box to describe the project)

- A Well planned and needed by municipality
- B Well planned and needed by applicant
- C Needed by municipality, more planning required
- D Needed by applicant, more planning required
- E Idea has merit, more planning work needed
- F Not recommended

Please complete the questions attached. This assessment is an important part of the CSRFF process and your answers to these questions assist the committee make their recommendations, even if you are the applicant. Please provide a summary of any attachments in your assessment, rather than referring to attachments or external documents such as Council Minutes.

- 1. Please confirm your contribution to the project, whether it has been formally approved (including financial year for which it is approved) and any conditions on the funding. If no funding has been provided, why not?**

The City of Albany confirmed its contribution to the project at the August OCM 2018. Please see the attached council item.

The funding contribution is reliant upon a successful CSRFF application – if unsuccessful the funds are returned to the pot and the club must apply again or alternately they can proceed with the project and fund the remaining parts.

- 2. A) If a community group application: Do you believe the project is financially viable, including the applicant’s ability to provide upfront contributions, ongoing payments and contributions to an asset replacement fund. Does council commit to underwriting any shortfalls as the ultimate asset owner?**

The application is a community group application and based on the information received the club is financially sound and can meet the commitment. The project forms part of the athletics facilities and the city of Albany is responsible for ongoing maintenance of the project. The clubs pay a seasonal fee per player that is used to offset the costs of annual operational maintenance.

- B) If a council application: Is Council fully aware of the ongoing cost of operating and maintaining this facility and does your organisation have the capacity to service it into the future? How are the user groups contributing to the ongoing cost of operating the facility?**

- 3. Please provide any additional comments regarding this applications merit against the assessment criteria to support your project rating and ranking.**

The Albany Athletics Long jump runway and take off pit has reached the end of its life and does not meet the current safety standards and are considered unsafe.

The City of Albany is supportive of this project for the following reasons:

- *Athletics is recognised as a key sport for the Great Southern and Albany. The Albany clubs form part of Athletics WA*
- *This project is aimed at refurbishment of the long jump at the Centennial Park Sporting Precinct athletics grounds. More specifically, these funds will allow the Athletics Club to build a new runway and take off pit.*
- *The existing facility is no longer considered safe, and has to be removed. These need to be replaced by a safer facility constructed to the facility guidelines.*

Signed

Position: Manager Recreation Services

Date 2/8/18

Applications for CSRFF funding must be submitted to your Department of Local Government, Sport and Cultural Industries office by **4pm on 28 September 2018**. Late applications cannot be accepted in any circumstances.

PROJECT ASSESSMENT SHEET

This page is for the use of the relevant Local Government Authority to be used for both community and LGA projects. Please **attach copies of council minutes** relevant to the project approval.

| |
|--|
| Name of Local Government Authority: City of Albany |
| Name of Applicant: Chester Pass Branch Sporting Shooters Association of Australia, Albany Pistol Club |

Note: The applicant’s name cannot be changed once the application is lodged at DLGSC.

Section A

The CSRFF principles have been considered and the following assessment is provided:
(Please include below your assessment of how the applicant has addressed the following criteria)

All applications

| | Satisfactory | Unsatisfactory | Not relevant |
|---|-------------------------------------|--------------------------|--------------------------|
| Project justification | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Planned approach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Community input | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Management planning | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Access and opportunity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Design | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Financial viability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Co-ordination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Potential to increase Physical activity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sustainability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Section B

| | |
|---|---|
| Priority ranking of no of applications received | Two of Four applications received |
| Is this project consistent with the | <input checked="" type="checkbox"/> Local Plan <input type="checkbox"/> Regional Plan |
| Have all planning and building approvals been given for this project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, what approvals are still outstanding? | |

Project Rating (Please tick the most appropriate box to describe the project)

- A Well planned and needed by municipality
- B Well planned and needed by applicant
- C Needed by municipality, more planning required
- D Needed by applicant, more planning required
- E Idea has merit, more planning work needed
- F Not recommended

Please complete the questions attached. This assessment is an important part of the CSRFF process and your answers to these questions assist the committee make their recommendations, even if you are the applicant. Please provide a summary of any attachments in your assessment, rather than referring to attachments or external documents such as Council Minutes.

1. Please confirm your contribution to the project, whether it has been formally approved (including financial year for which it is approved) and any conditions on the funding. If no funding has been provided, why not?

The City of Albany confirmed its contribution to the project at the August OCM 2018. Please see the attached council item.

The funding contribution is reliant upon a successful CSRFF application – if unsuccessful the funds are returned to the pot and the club must apply again or alternately they can proceed with the project and fund the remaining parts.

2. A) If a community group application: Do you believe the project is financially viable, including the applicant's ability to provide upfront contributions, ongoing payments and contributions to an asset replacement fund. Does council commit to underwriting any shortfalls as the ultimate asset owner?

The application is a community group application and the project forms part of the Chester Pass Branch Sporting Shooters Association of Australia, Albany Pistol Club suite of facilities. The City of Albany is not responsible for any ongoing maintenance of the project. The club is wholly responsible.

Council has provided no commitment to underwriting any shortfalls. Based on the information received the club is financially sound, has an asset replacement fund and can meet the commitment.

B) If a council application: Is Council fully aware of the ongoing cost of operating and maintaining this facility and does your organisation have the capacity to service it into the future? How are the user groups contributing to the ongoing cost of operating the facility?

3. Please provide any additional comments regarding this applications merit against the assessment criteria to support your project rating and ranking.

The Chester Pass Branch Sporting Shooters Association of Australia Firing Line Shelter has reached the end of its life and the facility needs to match the growth of the club.

The City of Albany is supportive of this project for the following reasons:

- *Shooting is recognised as a key sport for the Great Southern and Albany. The Albany clubs form part of Shooting Sports Association of Australia.*
- *This project is aimed at refurbishment of the Firing Line Shelter. More specifically, these funds will allow the Chester Pass Branch Sporting Shooters Association of Australia to build a new Firing Line Shelter.*
- *The existing facility is no longer considered safe, and has to be removed. These need to be replaced by a safer facility constructed to the facility guidelines.*

Signed

Position: Manager Recreation Services

Date
2/8/2018

Applications for CSRFF funding must be submitted to your Department of Local Government, Sport and Cultural Industries office by **4pm on 28 September 2018**. Late applications cannot be accepted in any circumstances.

PROJECT ASSESSMENT SHEET

This page is for the use of the relevant Local Government Authority to be used for both community and LGA projects. Please **attach copies of council minutes** relevant to the project approval.

| |
|---|
| Name of Local Government Authority: City of Albany |
| Name of Applicant: Emu Point Sporting Club |

Note: The applicant’s name cannot be changed once the application is lodged at DLGSC.

Section A

The CSRFF principles have been considered and the following assessment is provided:
(Please include below your assessment of how the applicant has addressed the following criteria)

All applications

| | Satisfactory | Unsatisfactory | Not relevant |
|---|-------------------------------------|--------------------------|--------------------------|
| Project justification | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Planned approach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Community input | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Management planning | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Access and opportunity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Design | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Financial viability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Co-ordination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Potential to increase Physical activity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sustainability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Section B

| | |
|---|---|
| Priority ranking of no of applications received | One of Four applications received |
| Is this project consistent with the | <input checked="" type="checkbox"/> Local Plan <input type="checkbox"/> Regional Plan |
| Have all planning and building approvals been given for this project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, what approvals are still outstanding? | |

Project Rating (Please tick the most appropriate box to describe the project)

- A Well planned and needed by municipality
- B Well planned and needed by applicant
- C Needed by municipality, more planning required
- D Needed by applicant, more planning required
- E Idea has merit, more planning work needed
- F Not recommended

Please complete the questions attached. This assessment is an important part of the CSRFF process and your answers to these questions assist the committee make their recommendations, even if you are the applicant. Please provide a summary of any attachments in your assessment, rather than referring to attachments or external documents such as Council Minutes.

- 1. Please confirm your contribution to the project, whether it has been formally approved (including financial year for which it is approved) and any conditions on the funding. If no funding has been provided, why not?**

The City of Albany confirmed its contribution to the project at the August OCM 2018. Please see the attached council item.

The funding contribution is reliant upon a successful CSRFF application – if unsuccessful the funds are returned to the pot and the club must apply again or alternately they can proceed with the project and fund the remaining parts.

- 2. A) If a community group application: Do you believe the project is financially viable, including the applicant’s ability to provide upfront contributions, ongoing payments and contributions to an asset replacement fund. Does council commit to underwriting any shortfalls as the ultimate asset owner?**

The application is a community group application and the project forms part of the Emu Point Bowling and Tennis Clubs suite of facilities. The City of Albany is not responsible for any ongoing maintenance of the project. The club is wholly responsible.

Council has provided no commitment to underwriting any shortfalls. Based on the information received the club is financially sound, has an asset replacement fund and can meet the commitment

- B) If a council application: Is Council fully aware of the ongoing cost of operating and maintaining this facility and does your organisation have the capacity to service it into the future? How are the user groups contributing to the ongoing cost of operating the facility?**

- 3. Please provide any additional comments regarding this applications merit against the assessment criteria to support your project rating and ranking.**

The Emu Point Sporting Club Disability & Special Needs Toilet and Access Ramp Project has reached the end of its life and does not meet the current safety standards and are considered unsafe.

The City of Albany is supportive of this project for the following reasons:

- Emu Point Bowls and Tennis Clubs is recognised as a key sport for the Great Southern and Albany. The Albany clubs form part of Bowls WA and Tennis West.
- This project is aimed at a Retro fit for a Disability & Special Needs Toilet, Access Ramp and new entry door in the Emu Point Sporting Club main building for use for anyone using the facilities with special needs.
- The existing facility is no longer considered safe, and has to be replaced. These need to be replaced by a safer facility constructed to the facility guidelines.

Signed

Position: Manager Recreation Services

Date
2/8/2018

Applications for CSRFF funding must be submitted to your Department of Local Government, Sport and Cultural Industries office by **4pm on 28 September 2018**. Late applications cannot be accepted in any circumstances.



Lower Great Southern Hockey Association Inc

PO Box 39 Albany WA 6331

1 August 2018

Samantha Stevens
Manager Community Services
City of Albany
PO Box 484
ALBANY WA 6331

Dear Samantha

Provisional Commitment for Self-Supporting Loan

The Board of the Lower Great Southern Hockey Association (LGSHA) discussed the funding arrangements for the replacement of the Albany synthetic hockey turf project at the Board Meeting held on Monday 9 July 2018 and is in a position to advise that the Association is able to provide provisional commitment to meet the loan repayments for a loan of \$127,821.00.

Once the project funding has been secured through CSRFF funding, the LGSHA will need to pass a resolution through a Special General Meeting enabling the Association to formally enter into a loan arrangement.

Yours sincerely

Robbie Stainton
PRESIDENT



Department of
Local Government, Sport
and Cultural Industries



PROJECT ASSESSMENT SHEET

This page is for the use of the relevant Local Government Authority to be used for both community and LGA projects. Please **attach copies of council minutes** relevant to the project approval.

| |
|---|
| Name of Local Government Authority: City of Albany |
| Name of Applicant: Lower Great Southern Hockey Association |

Note: The applicant’s name cannot be changed once the application is lodged at DLGSC.

Section A

The CSRFF principles have been considered and the following assessment is provided:
(Please include below your assessment of how the applicant has addressed the following criteria)

All applications

| | Satisfactory | Unsatisfactory | Not relevant |
|---|-------------------------------------|--------------------------|--------------------------|
| Project justification | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Planned approach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Community input | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Management planning | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Access and opportunity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Design | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Financial viability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Co-ordination | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Potential to increase Physical activity | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sustainability | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Section B

| | |
|---|---|
| Priority ranking of no of applications received | One of One applications received |
| Is this project consistent with the | <input checked="" type="checkbox"/> Local Plan <input type="checkbox"/> Regional Plan |
| Have all planning and building approvals been given for this project? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, what approvals are still outstanding? | |

Project Rating (Please tick the most appropriate box to describe the project)

- A Well planned and needed by municipality
- B Well planned and needed by applicant
- C Needed by municipality, more planning required
- D Needed by applicant, more planning required
- E Idea has merit, more planning work needed
- F Not recommended

Please complete the questions attached. This assessment is an important part of the CSRFF process and your answers to these questions assist the committee make their recommendations, even if you are the applicant. Please provide a summary of any attachments in your assessment, rather than referring to attachments or external documents such as Council Minutes.

- 1. Please confirm your contribution to the project, whether it has been formally approved (including financial year for which it is approved) and any conditions on the funding. If no funding has been provided, why not?**

The City of Albany confirmed its contribution to the project at the August OCM 2018. Please see the attached council item.

The funding contribution is reliant upon a successful CSRFF application – if unsuccessful the funds are returned to the pot and the club must apply again or alternately they can proceed with the project and fund the remaining parts.

- 2. A) If a community group application: Do you believe the project is financially viable, including the applicant’s ability to provide upfront contributions, ongoing payments and contributions to an asset replacement fund. Does council commit to underwriting any shortfalls as the ultimate asset owner?**

B) If a council application: Is Council fully aware of the ongoing cost of operating and maintaining this facility and does your organisation have the capacity to service it into the future? How are the user groups contributing to the ongoing cost of operating the facility?

The application is a council application and based on the information received the club is financially sound and can meet the commitment. The project forms part of the City’s hockey facilities and is located in the Centennial Park Sporting Precinct (Western) the City of Albany is responsible for ongoing maintenance of the project.

The clubs pay fees for trainings and games every time they use the turf, these funds are used to offset the costs of annual operational maintenance.

The City of Albany and the LGSHA each contribute to their own asset replacement reserves.

- 3. Please provide any additional comments regarding this applications merit against the assessment criteria to support your project rating and ranking.**

The Lower Great Southern Hockey Association Hockey Turf has reached the end of its life and does not meet the current safety standards and are considered unsafe.

The City of Albany is supportive of this project for the following reasons:

- Hockey is recognised as a key sport for the Great Southern and Albany. The Albany clubs form part of Hockey WA.
- This project is aimed at the installation of a Hockey Turf at the Centennial Park Sporting Precinct. More specifically, these funds will allow the hockey club to play on a surface that is safe.
- The existing facility is no longer considered safe, and has to be removed. These need to be replaced by a safer facility constructed to the facility guidelines.

Signed

Position: Manager Recreation Services

Date 2/8/18

Applications for CSRFF funding must be submitted to your Department of Local Government, Sport and Cultural Industries office by **4pm on 28 September 2018**. Late applications cannot be accepted in any circumstances.

FILE: FM.DEB.11



DELEGATED AUTHORITY

WRITE OFF DEBTORS GENERAL DEBT

Delegation: 2018:022 – Rates & Recover Debt, Write off Rate Debt, Exemptions

Adopted: OCM 22/05/2018 Resolution AR042

Delegated Power:

1. Waive, grant concessions or write off any money owed to the City, pursuant to the Local Government Act 1995, s6.12(1).
2. Write off any amount of money, including rates debts 'penalty interest' where the cost of recovering the debt will be greater than the actual debt.

Condition of Delegation:

- (a) Write Off Debt (monies owed):
 - Maximum \$10,000. Rates Officers: limited \$1,500.
 - The full details of the waiver, concession or write off to be recorded on the appropriate financial record and a report being provided to the Commercial, Community and Corporate Services Committee on the exercise of this delegation.

Debtors General Write Off balance of \$8,279.60 for the period 01/07/2017 to 30/06/2018.

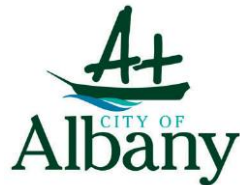
As per the attached list.

Michael Cole
Executive Director Corporate Services

31/07/2018

| CODE | AMOUNT |
|--------------|-------------------|
| AAC2 | \$29.40 |
| ALB52 | \$0.02 |
| ALB59 | \$50.00 |
| BUR18 | \$250.00 |
| CLA11 | -\$0.01 |
| CLO4 | \$50.00 |
| CUL2 | \$0.10 |
| DEP56 | \$115.60 |
| DEP56 | \$159.50 |
| DEP56 | \$40.50 |
| FIS5 | \$92.50 |
| GOO7 | -\$0.10 |
| GRE86 | \$12.15 |
| HAM14 | \$399.53 |
| HEL11 | -\$0.01 |
| LEE11 | \$1,000.00 |
| LOW7 | -\$0.30 |
| MCW1 | -\$0.50 |
| MOR13 | \$25.00 |
| NEI3 | \$362.90 |
| OCE1DD | -\$0.02 |
| OPT1 | -\$0.01 |
| OSW1 | \$21.00 |
| PHI6 | -\$0.01 |
| PIK1 | \$12.15 |
| POU2 | \$81.20 |
| SAT2 | -\$0.20 |
| SEA1 | -\$70.00 |
| SMI33 | \$139.00 |
| SMI34 | \$195.00 |
| WAC9 | -\$0.20 |
| WIL17 | \$0.10 |
| WIL39 | \$5,315.31 |
| TOTAL | \$8,279.60 |

FILE: RV.RPY.12



DELEGATED AUTHORITY

WRITE OFF RATE DEBT

Delegation: 2018:022 – Rates & Recover Debt, Write off Rate Debt, Exemptions

Adopted: OCM 22/05/2018 Resolution AR042

Delegated Power:

1. Waive, grant concessions or write off any money owed to the City, pursuant to the Local Government Act 1995, s6.12(1).
2. Write off any amount of money, including rate debts 'penalty interest' where the cost of recovering the debt will be greater than the actual debt.

Condition of Delegation:

- (a) Write Off Debt (monies owed):
 - Maximum \$10,000. Rates: limited \$1,500.
 - The full details of the waiver, concession or write off to be recorded on the appropriate financial record and a report being provided to the Community and Corporate Services Committee on an annual basis on the exercise of this delegation.

Rate Debt Write Off balance of \$3,053.50 for the period 01/07/2017 to 30/06/2018.

As per the attached list.

Michael Cole
Executive Director Corporate Services

31/7/2018

REPORT ITEM CCS 082 REFERS

| | |
|---------|------|
| A100056 | 0.76 |
| A100105 | 2.01 |
| A100236 | 0.41 |
| A100353 | 3.16 |
| A100943 | 2.64 |
| A101125 | 0.85 |
| A101139 | 0.45 |
| A101143 | 0.28 |
| A101206 | 0.59 |
| A101224 | 1.79 |
| A101260 | 1.69 |
| A101369 | 2.85 |
| A10138 | 3.98 |
| A101454 | 0.22 |
| A101535 | 4.50 |
| A101670 | 2.26 |
| A102064 | 2.23 |
| A102127 | 0.52 |
| A102276 | 2.11 |
| A102474 | 0.70 |
| A102686 | 1.82 |
| A102799 | 4.04 |
| A102852 | 0.10 |
| A10287 | 0.55 |
| A102929 | 2.34 |
| A103278 | 1.40 |
| A103395 | 0.71 |
| A10354 | 0.43 |
| A10372 | 0.41 |
| A103723 | 4.42 |
| A103791 | 0.52 |
| A10386 | 2.55 |
| A103872 | 3.13 |
| A103903 | 3.70 |
| A10421 | 1.60 |
| A104252 | 3.23 |
| A104284 | 4.78 |
| A104365 | 2.91 |
| A104509 | 0.67 |
| A104626 | 0.57 |
| A104662 | 0.57 |
| A104761 | 2.29 |
| A104973 | 0.33 |
| A105137 | 0.54 |
| A105191 | 0.54 |
| A105236 | 2.49 |
| A105399 | 2.36 |
| A105551 | 0.18 |

| | |
|---------|------|
| A10598 | 0.46 |
| A106242 | 3.13 |
| A106260 | 3.13 |
| A106373 | 3.75 |
| A106486 | 0.78 |
| A106666 | 2.83 |
| A106698 | 4.49 |
| A106828 | 0.32 |
| A106832 | 4.94 |
| A106963 | 4.46 |
| A106981 | 0.23 |
| A107226 | 4.24 |
| A107280 | 0.28 |
| A10732 | 1.02 |
| A107375 | 3.39 |
| A107442 | 2.34 |
| A107591 | 0.28 |
| A107636 | 0.58 |
| A107640 | 2.24 |
| A107717 | 0.59 |
| A108066 | 3.25 |
| A108098 | 0.70 |
| A108408 | 1.45 |
| A10845 | 0.28 |
| A108476 | 0.03 |
| A108692 | 0.16 |
| A108755 | 1.96 |
| A109090 | 3.96 |
| A109185 | 0.77 |
| A109301 | 1.79 |
| A109400 | 0.56 |
| A109482 | 0.53 |
| A109581 | 0.81 |
| A109626 | 0.58 |
| A109630 | 2.06 |
| A109676 | 0.20 |
| A109789 | 0.20 |
| A109806 | 2.21 |
| A110049 | 3.05 |
| A110332 | 0.57 |
| A110378 | 0.57 |
| A11045 | 4.42 |
| A110580 | 1.34 |
| A110643 | 0.27 |
| A111550 | 3.78 |
| A11158 | 0.37 |
| A11180 | 3.74 |
| A111906 | 2.43 |

| | |
|---------|------|
| A111960 | 4.64 |
| A112075 | 0.02 |
| A112106 | 0.63 |
| A112372 | 0.58 |
| A112390 | 0.88 |
| A112403 | 1.26 |
| A112453 | 4.75 |
| A112516 | 1.22 |
| A112750 | 1.47 |
| A11289 | 0.09 |
| A113211 | 0.64 |
| A113392 | 0.56 |
| A113518 | 0.73 |
| A113554 | 1.17 |
| A113586 | 3.34 |
| A113617 | 0.14 |
| A113671 | 0.19 |
| A11388 | 4.27 |
| A114047 | 1.69 |
| A114182 | 0.59 |
| A114380 | 3.92 |
| A114411 | 0.80 |
| A114669 | 2.82 |
| A115247 | 3.53 |
| A115657 | 3.08 |
| A115738 | 0.65 |
| A115841 | 0.16 |
| A115940 | 0.01 |
| A115972 | 0.57 |
| A116172 | 2.49 |
| A116285 | 0.94 |
| A116370 | 0.15 |
| A116401 | 1.72 |
| A116924 | 0.29 |
| A117039 | 0.05 |
| A117764 | 0.62 |
| A118243 | 0.78 |
| A118275 | 0.53 |
| A118293 | 4.56 |
| A118635 | 0.14 |
| A118865 | 0.37 |
| A119033 | 0.59 |
| A119281 | 1.66 |
| A119308 | 2.15 |
| A119326 | 1.61 |
| A119493 | 0.18 |
| A119524 | 0.66 |
| A119542 | 0.47 |

REPORT ITEM CCS 082 REFERS

| | |
|---------|------|
| A119588 | 1.19 |
| A119619 | 1.41 |
| A119623 | 1.87 |
| A119669 | 0.45 |
| A12001 | 1.22 |
| A120244 | 0.94 |
| A120294 | 2.26 |
| A120460 | 2.97 |
| A12047 | 0.73 |
| A120636 | 3.01 |
| A12065 | 2.25 |
| A120721 | 3.02 |
| A121101 | 2.52 |
| A121345 | 0.73 |
| A121412 | 0.30 |
| A121890 | 0.92 |
| A121967 | 2.67 |
| A122086 | 0.53 |
| A122185 | 0.73 |
| A122301 | 1.24 |
| A12231 | 0.71 |
| A122446 | 3.43 |
| A12245 | 0.28 |
| A122644 | 0.42 |
| A122694 | 2.56 |
| A122711 | 0.63 |
| A122725 | 2.14 |
| A122789 | 0.48 |
| A123286 | 2.00 |
| A123664 | 8.35 |
| A123678 | 0.38 |
| A123826 | 0.25 |
| A123957 | 0.54 |
| A124030 | 4.23 |
| A12407 | 3.56 |
| A124175 | 0.02 |
| A124319 | 0.13 |
| A124369 | 0.05 |
| A124490 | 4.97 |
| A124599 | 1.31 |
| A124715 | 4.23 |
| A124828 | 0.62 |
| A124878 | 0.72 |
| A124981 | 0.29 |
| A125109 | 0.28 |
| A125177 | 0.87 |
| A125258 | 1.68 |
| A125519 | 0.26 |
| A125537 | 0.66 |

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| A125569 | 0.65 |
| A125870 | 0.16 |
| A126232 | 0.48 |
| A126458 | 2.88 |
| A126511 | 0.72 |
| A126539 | 2.97 |
| A126557 | 4.51 |
| A126589 | 0.55 |
| A126917 | 3.81 |
| A12704 | 4.23 |
| A127072 | 2.19 |
| A127185 | 1.85 |
| A127266 | 1.72 |
| A127581 | 0.10 |
| A127644 | 1.08 |
| A127973 | 2.72 |
| A128155 | 0.55 |
| A128272 | 1.56 |
| A128335 | 0.53 |
| A128371 | 0.32 |
| A128434 | 3.54 |
| A128484 | 0.53 |
| A128597 | 1.29 |
| A128646 | 4.97 |
| A128727 | 0.55 |
| A128781 | 1.64 |
| A129111 | 4.34 |
| A129206 | 0.56 |
| A129238 | 0.56 |
| A129242 | 0.53 |
| A129319 | 0.59 |
| A129454 | 0.53 |
| A129490 | 0.74 |
| A129567 | 1.73 |
| A129698 | 4.13 |
| A129909 | 1.56 |
| A129995 | 0.46 |
| A130007 | 0.46 |
| A130110 | 0.61 |
| A130449 | 4.23 |
| A130485 | 1.00 |
| A130552 | 3.01 |
| A131059 | 2.19 |
| A131112 | 0.42 |
| A131487 | 0.50 |
| A131586 | 0.70 |
| A131590 | 0.61 |
| A13170 | 0.06 |
| A131928 | 2.90 |

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| A132029 | 3.39 |
| A132132 | 0.04 |
| A132281 | 1.08 |
| A132312 | 1.95 |
| A132380 | 3.90 |
| A132439 | 4.24 |
| A132542 | 0.01 |
| A132687 | 0.13 |
| A132691 | 5.11 |
| A132718 | 0.31 |
| A132817 | 3.23 |
| A133148 | 0.17 |
| A133215 | 0.04 |
| A133229 | 4.58 |
| A13332 | 0.33 |
| A133742 | 0.46 |
| A133954 | 4.89 |
| A134118 | 3.17 |
| A13413 | 2.70 |
| A134302 | 0.42 |
| A134726 | 0.78 |
| A135025 | 0.96 |
| A135237 | 0.53 |
| A135372 | 0.12 |
| A135502 | 1.02 |
| A135859 | 0.21 |
| A135877 | 0.47 |
| A136239 | 4.40 |
| A136504 | 0.01 |
| A136522 | 3.00 |
| A136572 | 2.89 |
| A136603 | 2.25 |
| A137083 | 0.27 |
| A13742 | 3.17 |
| A137641 | 0.57 |
| A138297 | 0.58 |
| A138625 | 3.27 |
| A138837 | 1.35 |
| A138986 | 4.76 |
| A139005 | 0.14 |
| A139154 | 0.10 |
| A139221 | 0.95 |
| A139451 | 0.57 |
| A139726 | 0.73 |
| A139811 | 2.04 |
| A139906 | 1.75 |
| A139960 | 2.47 |
| A140103 | 4.97 |
| A140121 | 2.41 |

REPORT ITEM CCS 082 REFERS

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| A140199 | 0.81 |
| A140478 | 0.49 |
| A140513 | 1.95 |
| A140630 | 2.34 |
| A140711 | 1.58 |
| A140739 | 0.71 |
| A140761 | 1.16 |
| A140937 | 0.06 |
| A141006 | 0.33 |
| A1412 | 0.09 |
| A141240 | 3.78 |
| A141533 | 4.86 |
| A141628 | 0.10 |
| A141830 | 2.32 |
| A141876 | 2.07 |
| A141907 | 0.02 |
| A141939 | 0.30 |
| A142062 | 0.82 |
| A142076 | 2.32 |
| A142274 | 0.67 |
| A142319 | 0.51 |
| A142418 | 1.01 |
| A142620 | 3.84 |
| A143096 | 3.65 |
| A143145 | 1.49 |
| A143474 | 2.91 |
| A143636 | 0.31 |
| A14401 | 2.21 |
| A144020 | 1.75 |
| A144052 | 0.59 |
| A144129 | 0.21 |
| A144179 | 1.75 |
| A144313 | 0.25 |
| A1444 | 4.67 |
| A144412 | 3.43 |
| A144480 | 0.69 |
| A144688 | 0.83 |
| A144818 | 2.79 |
| A144822 | 1.67 |
| A145004 | 2.55 |
| A145036 | 0.88 |
| A145167 | 3.80 |
| A145270 | 1.07 |
| A145789 | 3.53 |
| A146056 | 3.64 |
| A146088 | 0.56 |
| A146173 | 1.84 |
| A146272 | 1.68 |
| A146420 | 4.48 |

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| A146646 | 3.74 |
| A146745 | 0.15 |
| A146911 | 1.72 |
| A146975 | 4.50 |
| A14708 | 3.54 |
| A147080 | 4.00 |
| A147157 | 0.77 |
| A147274 | 4.28 |
| A147567 | 3.58 |
| A14758 | 1.48 |
| A147602 | 3.59 |
| A147648 | 0.23 |
| A148492 | 0.85 |
| A14910 | 2.93 |
| A149426 | 0.56 |
| A149444 | 1.58 |
| A149458 | 1.58 |
| A149476 | 1.89 |
| A149525 | 0.33 |
| A149642 | 0.81 |
| A149872 | 4.82 |
| A14992 | 2.00 |
| A150281 | 0.59 |
| A150295 | 22.52 |
| A150380 | 0.62 |
| A150605 | 0.59 |
| A150899 | 2.35 |
| A151071 | 0.41 |
| A151198 | 0.15 |
| A151445 | 0.61 |
| A151706 | 2.49 |
| A151904 | 2.88 |
| A15192 | 8.31 |
| A151986 | 0.46 |
| A152104 | 0.06 |
| A152172 | 1.91 |
| A152235 | 1.88 |
| A152352 | 3.30 |
| A152384 | 0.62 |
| A152433 | 2.02 |
| A15273 | 0.01 |
| A152780 | 1.44 |
| A152861 | 1.05 |
| A152910 | 1.05 |
| A152924 | 1.34 |
| A152974 | 1.05 |
| A153007 | 1.05 |
| A153075 | 1.05 |
| A153106 | 1.05 |

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| A153192 | 1.66 |
| A153223 | 1.66 |
| A153255 | 1.66 |
| A153318 | 1.05 |
| A153322 | 0.01 |
| A153403 | 1.66 |
| A153417 | 2.07 |
| A153435 | 1.66 |
| A153467 | 1.66 |
| A153499 | 1.67 |
| A153552 | 1.66 |
| A153584 | 1.66 |
| A153615 | 1.81 |
| A153647 | 2.58 |
| A153679 | 2.58 |
| A153697 | 0.71 |
| A153796 | 4.47 |
| A153881 | 0.32 |
| A153908 | 0.22 |
| A153994 | 0.54 |
| A154108 | 0.54 |
| A154441 | 4.48 |
| A154617 | 4.74 |
| A154770 | 3.19 |
| A154801 | 0.52 |
| A154851 | 0.84 |
| A155083 | 0.37 |
| A155097 | 3.27 |
| A155128 | 2.81 |
| A15534 | 0.20 |
| A155588 | 0.56 |
| A155619 | 0.57 |
| A155673 | 3.90 |
| A155736 | 0.84 |
| A156021 | 0.30 |
| A156152 | 0.81 |
| A156251 | 3.96 |
| A156300 | 2.94 |
| A156477 | 0.36 |
| A15665 | 1.20 |
| A156675 | 0.06 |
| A156936 | 2.70 |
| A157906 | 0.09 |
| A157956 | 0.62 |
| A158007 | 0.51 |
| A158386 | 0.33 |
| A158435 | 2.22 |
| A158499 | 1.23 |
| A158516 | 2.00 |

REPORT ITEM CCS 082 REFERS

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| A158548 | 0.63 |
| A158647 | 4.49 |
| A158665 | 0.31 |
| A158782 | 4.60 |
| A159027 | 2.77 |
| A159081 | 3.45 |
| A159112 | 0.33 |
| A159207 | 3.28 |
| A159356 | 0.74 |
| A159491 | 0.12 |
| A15958 | 0.54 |
| A159586 | 0.28 |
| A159720 | 3.33 |
| A160323 | 1.88 |
| A160387 | 4.70 |
| A16081 | 0.02 |
| A161131 | 5.00 |
| A161339 | 4.89 |
| A161361 | 0.58 |
| A161456 | 0.37 |
| A16158 | 0.18 |
| A161686 | 0.78 |
| A161753 | 0.35 |
| A161951 | 0.45 |
| A161983 | 0.41 |
| A162412 | 1.75 |
| A162430 | 1.78 |
| A162610 | 4.15 |
| A162953 | 2.80 |
| A16306 | 1.30 |
| A163220 | 1.14 |
| A163252 | 3.65 |
| A163351 | 1.52 |
| A164006 | 2.78 |
| A164074 | 2.88 |
| A164187 | 0.56 |
| A16419 | 0.61 |
| A164191 | 0.56 |
| A164218 | 0.59 |
| A164303 | 4.97 |
| A164795 | 3.51 |
| A165107 | 2.66 |
| A165111 | 3.65 |
| A165143 | 2.39 |
| A165189 | 1.38 |
| A165224 | 1.36 |
| A165373 | 3.55 |
| A16540 | 0.40 |
| A165472 | 0.14 |

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| A165517 | 0.47 |
| A165620 | 0.62 |
| A165797 | 0.63 |
| A165846 | 1.89 |
| A16590 | 1.24 |
| A166230 | 2.55 |
| A166294 | 0.71 |
| A166311 | 0.32 |
| A166456 | 2.89 |
| A166983 | 1.74 |
| A16702 | 2.49 |
| A16734 | 3.91 |
| A167363 | 0.29 |
| A167458 | 0.85 |
| A16748 | 0.39 |
| A167737 | 0.67 |
| A167836 | 2.35 |
| A167917 | 0.31 |
| A168022 | 2.59 |
| A168090 | 0.29 |
| A168301 | 0.30 |
| A168329 | 0.38 |
| A168428 | 4.66 |
| A168531 | 0.69 |
| A168923 | 0.02 |
| A169137 | 2.70 |
| A169222 | 0.64 |
| A169317 | 5.00 |
| A169349 | 7.13 |
| A169551 | 4.16 |
| A169614 | 0.31 |
| A169650 | 0.29 |
| A169795 | 2.93 |
| A169808 | 2.20 |
| A169925 | 0.74 |
| A169993 | 1.16 |
| A17047 | 0.91 |
| A170645 | 0.67 |
| A170659 | 3.40 |
| A170663 | 0.01 |
| A170695 | 4.14 |
| A17083 | 4.11 |
| A170906 | 4.26 |
| A170988 | 0.60 |
| A171011 | 0.54 |
| A171499 | 4.36 |
| A171651 | 3.84 |
| A171908 | 0.68 |
| A172059 | 0.24 |

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| A172063 | 0.33 |
| A172162 | 0.70 |
| A172293 | 2.05 |
| A172392 | 0.90 |
| A172504 | 0.69 |
| A172522 | 22.05 |
| A172554 | 0.73 |
| A172621 | 1.33 |
| A172653 | 0.50 |
| A172699 | 2.00 |
| A172833 | 0.65 |
| A172897 | 0.57 |
| A173051 | 1.92 |
| A17308 | 2.40 |
| A173132 | 9.00 |
| A173394 | 2.93 |
| A173506 | 1.38 |
| A173588 | 1.45 |
| A173704 | 2.37 |
| A173722 | 0.17 |
| A173736 | 2.28 |
| A174314 | 4.97 |
| A175497 | 3.64 |
| A175960 | 2.42 |
| A176110 | 0.63 |
| A176188 | 0.30 |
| A176287 | 0.05 |
| A176322 | 1.57 |
| A176845 | 0.20 |
| A176930 | 3.60 |
| A177130 | 1.98 |
| A177243 | 2.11 |
| A177374 | 4.17 |
| A177392 | 3.72 |
| A177405 | 2.95 |
| A177572 | 3.74 |
| A177685 | 0.64 |
| A178132 | 3.86 |
| A178182 | 0.17 |
| A178475 | 0.25 |
| A178506 | 4.24 |
| A178542 | 2.97 |
| A178786 | 4.71 |
| A178790 | 0.99 |
| A178849 | 3.43 |
| A178952 | 0.73 |
| A179003 | 10.56 |
| A179120 | 4.80 |
| A179378 | 1.13 |

REPORT ITEM CCS 082 REFERS

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| A179580 | 0.70 |
| A180147 | 0.73 |
| A180408 | 10.89 |
| A181036 | 1.34 |
| A181040 | 0.45 |
| A181054 | 0.70 |
| A181149 | 0.01 |
| A181234 | 3.51 |
| A181248 | 3.05 |
| A181347 | 0.56 |
| A181397 | 0.17 |
| A181527 | 0.33 |
| A181581 | 2.17 |
| A18166 | 3.41 |
| A18170 | 1.94 |
| A181793 | 0.80 |
| A181810 | 3.39 |
| A181824 | 0.17 |
| A181842 | 0.69 |
| A181941 | 1.66 |
| A182141 | 1.36 |
| A182204 | 1.42 |
| A182367 | 0.68 |
| A182385 | 0.13 |
| A182416 | 0.98 |
| A182501 | 4.33 |
| A182529 | 0.30 |
| A182547 | 0.83 |
| A18265 | 3.50 |
| A182781 | 2.48 |
| A182939 | 0.36 |
| A182957 | 4.81 |
| A183193 | 0.34 |
| A183224 | 3.39 |
| A183571 | 3.84 |
| A183698 | 1.64 |
| A183797 | 0.40 |
| A183814 | 1.17 |
| A184064 | 0.14 |
| A184276 | 1.04 |
| A184280 | 4.42 |
| A184294 | 0.44 |
| A184460 | 3.45 |
| A184541 | 2.02 |
| A184636 | 2.75 |
| A184834 | 0.34 |
| A185048 | 0.68 |
| A18512 | 0.99 |
| A185133 | 1.33 |

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| A185264 | 2.03 |
| A185444 | 0.88 |
| A185561 | 3.05 |
| A185787 | 0.39 |
| A185791 | 1.66 |
| A186036 | 0.58 |
| A186090 | 3.77 |
| A186117 | 3.34 |
| A186478 | 3.42 |
| A186482 | 3.54 |
| A186676 | 2.70 |
| A186838 | 0.47 |
| A18693 | 0.07 |
| A187092 | 0.02 |
| A18710 | 3.87 |
| A187141 | 3.14 |
| A187240 | 0.30 |
| A187399 | 0.12 |
| A187713 | 0.62 |
| A187731 | 0.43 |
| A187795 | 0.16 |
| A187907 | 0.07 |
| A188161 | 4.43 |
| A188175 | 2.70 |
| A188224 | 4.13 |
| A188238 | 2.45 |
| A188436 | 1.81 |
| A188571 | 3.41 |
| A188602 | 4.27 |
| A188846 | 0.35 |
| A189028 | 3.23 |
| A189032 | 1.44 |
| A189131 | 0.69 |
| A18922 | 5.00 |
| A189343 | 0.19 |
| A18936 | 0.28 |
| A189361 | 1.22 |
| A189979 | 0.12 |
| A189997 | 2.86 |
| A190081 | 2.05 |
| A19023 | 1.95 |
| A190342 | 0.18 |
| A190590 | 3.73 |
| A190617 | 3.27 |
| A190635 | 2.37 |
| A190716 | 2.72 |
| A190851 | 0.67 |
| A190900 | 0.35 |
| A190982 | 2.46 |

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| A190996 | 0.53 |
| A191029 | 4.40 |
| A191065 | 1.81 |
| A191097 | 0.03 |
| A191259 | 0.64 |
| A191308 | 1.85 |
| A191641 | 0.31 |
| A191655 | 3.63 |
| A191673 | 1.08 |
| A191718 | 0.76 |
| A191817 | 1.46 |
| A191966 | 0.01 |
| A192120 | 3.39 |
| A192544 | 0.24 |
| A192661 | 8.07 |
| A193203 | 0.67 |
| A193302 | 1.66 |
| A193433 | 0.46 |
| A19370 | 0.33 |
| A193861 | 0.34 |
| A194188 | 0.53 |
| A194219 | 0.05 |
| A194237 | 3.48 |
| A194291 | 1.15 |
| A194782 | 0.96 |
| A194908 | 0.36 |
| A195009 | 3.11 |
| A195059 | 2.14 |
| A195063 | 0.73 |
| A195108 | 3.24 |
| A195261 | 0.87 |
| A195289 | 0.05 |
| A195356 | 2.17 |
| A195518 | 0.17 |
| A195978 | 0.97 |
| A195996 | 0.11 |
| A196015 | 1.32 |
| A196231 | 0.60 |
| A196245 | 0.98 |
| A19627 | 1.12 |
| A196330 | 1.37 |
| A196574 | 0.67 |
| A196740 | 3.50 |
| A196902 | 2.02 |
| A196934 | 1.72 |
| A197021 | 2.79 |
| A197071 | 0.20 |
| A197085 | 0.21 |
| A19730 | 0.16 |

REPORT ITEM CCS 082 REFERS

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| A197396 | 4.06 |
| A197477 | 0.67 |
| A197526 | 0.75 |
| A197643 | 0.83 |
| A197661 | 2.62 |
| A197855 | 0.02 |
| A197936 | 0.61 |
| A19794 | 2.37 |
| A197940 | 2.30 |
| A198055 | 2.01 |
| A198168 | 0.37 |
| A198217 | 2.29 |
| A198249 | 0.36 |
| A198299 | 0.70 |
| A198451 | 4.24 |
| A198627 | 0.02 |
| A198744 | 4.75 |
| A198906 | 3.54 |
| A198974 | 0.90 |
| A199386 | 0.39 |
| A199390 | 0.07 |
| A199683 | 0.28 |
| A199796 | 3.17 |
| A199827 | 1.07 |
| A200016 | 1.40 |
| A200052 | 3.11 |
| A200345 | 3.75 |
| A200593 | 3.98 |
| A20068 | 2.79 |
| A200705 | 0.60 |
| A200719 | 9.88 |
| A200741 | 6.25 |
| A200769 | 0.15 |
| A200773 | 0.15 |
| A200787 | 0.15 |
| A200791 | 0.15 |
| A200804 | 0.12 |
| A200818 | 0.15 |
| A200822 | 0.15 |
| A200836 | 0.14 |
| A200840 | 0.14 |
| A200854 | 0.15 |
| A200868 | 0.15 |
| A200872 | 0.15 |
| A200886 | 0.15 |
| A201252 | 3.54 |
| A201527 | 2.60 |
| A201559 | 2.70 |
| A201581 | 2.07 |

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| A201630 | 0.21 |
| A201658 | 2.31 |
| A201680 | 4.50 |
| A201874 | 0.06 |
| A202038 | 0.50 |
| A202042 | 0.50 |
| A202056 | 0.50 |
| A202060 | 0.50 |
| A202074 | 0.50 |
| A202088 | 0.50 |
| A202092 | 0.50 |
| A202105 | 0.48 |
| A202119 | 0.48 |
| A202123 | 0.48 |
| A202137 | 0.48 |
| A202466 | 0.05 |
| A202498 | 2.96 |
| A202529 | 3.35 |
| A20270 | 4.65 |
| A202777 | 0.77 |
| A202907 | 2.88 |
| A202939 | 1.49 |
| A203094 | 0.03 |
| A203107 | 4.25 |
| A203157 | 2.60 |
| A203292 | 0.10 |
| A203319 | 1.84 |
| A20333 | 4.13 |
| A203440 | 2.73 |
| A203454 | 2.66 |
| A203517 | 4.35 |
| A203521 | 4.40 |
| A203549 | 0.63 |
| A203634 | 0.64 |
| A203698 | 2.38 |
| A204032 | 1.38 |
| A20414 | 4.77 |
| A204177 | 1.61 |
| A204195 | 3.61 |
| A204212 | 1.45 |
| A204280 | 1.36 |
| A20446 | 1.12 |
| A204721 | 1.15 |
| A204884 | 0.78 |
| A204965 | 3.10 |
| A204979 | 1.48 |
| A20509 | 0.07 |
| A205345 | 2.03 |
| A205359 | 2.03 |

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| A205363 | 2.03 |
| A205476 | 0.05 |
| A205480 | 0.49 |
| A205494 | 2.10 |
| A205804 | 0.61 |
| A205818 | 0.61 |
| A205890 | 0.18 |
| A206090 | 0.35 |
| A206149 | 4.62 |
| A206266 | 2.59 |
| A206739 | 2.03 |
| A206743 | 2.89 |
| A20676 | 2.41 |
| A206775 | 2.48 |
| A206969 | 0.09 |
| A206991 | 0.34 |
| A207155 | 3.02 |
| A207169 | 0.67 |
| A2072 | 3.60 |
| A207321 | 4.18 |
| A20739 | 0.54 |
| A207402 | 0.84 |
| A207466 | 0.40 |
| A207515 | 1.02 |
| A207894 | 0.52 |
| A208080 | 2.76 |
| A208107 | 4.53 |
| A208238 | 1.03 |
| A208288 | 0.44 |
| A208305 | 0.39 |
| A208369 | 3.34 |
| A208422 | 4.69 |
| A208616 | 0.37 |
| A208652 | 0.15 |
| A208751 | 0.05 |
| A208779 | 0.15 |
| A208797 | 0.52 |
| A208814 | 4.24 |
| A208832 | 0.70 |
| A208896 | 0.61 |
| A208909 | 3.72 |
| A208959 | 2.80 |
| A209078 | 2.70 |
| A209375 | 0.52 |
| A209672 | 3.03 |
| A209771 | 3.54 |
| A210144 | 0.67 |
| A210225 | 0.47 |
| A210360 | 0.70 |

REPORT ITEM CCS 082 REFERS

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|---------|------|
| A210568 | 1.87 |
| A210653 | 1.19 |
| A210801 | 4.95 |
| A210982 | 3.46 |
| A211083 | 0.58 |
| A211150 | 0.63 |
| A211209 | 2.84 |
| A211263 | 0.17 |
| A211295 | 0.09 |
| A211493 | 0.34 |
| A21169 | 2.02 |
| A211736 | 3.34 |
| A211970 | 0.02 |
| A212166 | 0.12 |
| A212346 | 0.12 |
| A212431 | 0.12 |
| A212530 | 0.12 |
| A212594 | 3.87 |
| A212706 | 0.65 |
| A212710 | 0.12 |
| A212788 | 0.50 |
| A212891 | 4.75 |
| A213122 | 0.68 |
| A213659 | 0.50 |
| A213695 | 0.53 |
| A21371 | 1.15 |
| A213811 | 0.15 |
| A213875 | 0.15 |
| A213910 | 4.27 |
| A213938 | 0.15 |
| A214007 | 0.67 |
| A214057 | 1.33 |
| A214075 | 0.15 |
| A214142 | 0.15 |
| A214174 | 0.16 |
| A214390 | 0.68 |
| A214467 | 0.74 |
| A214552 | 2.36 |
| A214584 | 3.51 |
| A214683 | 4.47 |
| A214746 | 0.65 |
| A214809 | 4.75 |
| A214813 | 4.75 |
| A214827 | 4.75 |
| A21484 | 2.91 |
| A214908 | 3.01 |
| A214944 | 1.02 |
| A214980 | 0.15 |
| A215081 | 3.90 |

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|---------|------|
| A215176 | 3.18 |
| A21529 | 3.28 |
| A215338 | 3.43 |
| A215342 | 1.92 |
| A215356 | 1.68 |
| A215360 | 1.68 |
| A215374 | 3.27 |
| A215554 | 1.27 |
| A215572 | 4.64 |
| A215635 | 3.49 |
| A21583 | 1.10 |
| A215879 | 0.23 |
| A215883 | 0.47 |
| A216079 | 0.18 |
| A216178 | 3.87 |
| A216330 | 0.15 |
| A216394 | 0.15 |
| A216506 | 0.15 |
| A216556 | 0.15 |
| A216669 | 0.15 |
| A216768 | 0.15 |
| A216772 | 0.72 |
| A216853 | 1.70 |
| A216916 | 0.15 |
| A217085 | 0.59 |
| A217233 | 2.81 |
| A217378 | 0.75 |
| A217526 | 2.16 |
| A217580 | 2.45 |
| A217675 | 2.40 |
| A217706 | 1.36 |
| A217756 | 0.84 |
| A217841 | 0.12 |
| A218005 | 3.15 |
| A218221 | 0.61 |
| A218253 | 0.59 |
| A218348 | 0.07 |
| A218352 | 0.05 |
| A218479 | 9.28 |
| A218500 | 3.51 |
| A218514 | 0.64 |
| A218550 | 3.82 |
| A218582 | 1.03 |
| A218712 | 2.89 |
| A218730 | 2.29 |
| A219075 | 1.90 |
| A219322 | 0.69 |
| A219403 | 0.34 |
| A219417 | 0.36 |

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|---------|------|
| A219449 | 2.19 |
| A219566 | 0.30 |
| A219601 | 0.20 |
| A219697 | 0.73 |
| A219746 | 3.64 |
| A219796 | 3.98 |
| A219813 | 0.70 |
| A220042 | 1.23 |
| A220141 | 2.48 |
| A220254 | 3.42 |
| A220286 | 2.13 |
| A22030 | 3.19 |
| A220385 | 2.35 |
| A220399 | 1.05 |
| A220402 | 2.36 |
| A220416 | 1.05 |
| A220420 | 2.36 |
| A220434 | 2.36 |
| A220448 | 2.35 |
| A220452 | 3.58 |
| A220466 | 1.05 |
| A220470 | 2.35 |
| A220484 | 2.35 |
| A220498 | 2.34 |
| A220501 | 2.35 |
| A220515 | 2.36 |
| A220529 | 2.35 |
| A220533 | 2.35 |
| A220547 | 2.37 |
| A220614 | 3.54 |
| A22062 | 4.91 |
| A220664 | 4.66 |
| A220696 | 0.52 |
| A220727 | 0.74 |
| A220781 | 0.63 |
| A220795 | 0.63 |
| A220808 | 0.63 |
| A220812 | 0.63 |
| A220826 | 0.63 |
| A220880 | 1.02 |
| A220961 | 4.84 |
| A221256 | 2.74 |
| A22139 | 0.29 |
| A22143 | 0.59 |
| A221486 | 0.44 |
| A221521 | 1.60 |
| A221648 | 4.14 |
| A221913 | 0.21 |
| A222000 | 1.68 |

REPORT ITEM CCS 082 REFERS

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|---------|------|
| A222208 | 4.46 |
| A222262 | 0.51 |
| A222325 | 1.50 |
| A222460 | 1.71 |
| A222474 | 1.76 |
| A22260 | 0.66 |
| A222820 | 2.03 |
| A222834 | 2.03 |
| A222915 | 2.03 |
| A222979 | 1.70 |
| A223002 | 1.11 |
| A223656 | 1.03 |
| A223872 | 2.23 |
| A223903 | 1.01 |
| A223917 | 2.94 |
| A223985 | 0.86 |
| A224072 | 2.03 |
| A224351 | 0.58 |
| A224383 | 1.91 |
| A224446 | 0.07 |
| A224581 | 3.67 |
| A224595 | 0.18 |
| A224630 | 1.29 |
| A224658 | 2.69 |
| A224662 | 4.79 |
| A224725 | 1.69 |
| A224793 | 4.57 |
| A224892 | 0.64 |
| A22517 | 2.62 |
| A225191 | 0.18 |
| A225272 | 2.05 |
| A225286 | 3.06 |
| A225434 | 0.39 |
| A22549 | 0.14 |
| A225515 | 2.03 |
| A22567 | 0.15 |
| A225844 | 3.81 |
| A225894 | 0.52 |
| A225989 | 1.50 |
| A226080 | 3.01 |
| A226094 | 3.01 |
| A226139 | 3.01 |
| A226157 | 3.01 |
| A226256 | 3.01 |
| A226274 | 3.01 |
| A226468 | 2.91 |
| A226503 | 0.65 |
| A226517 | 2.23 |
| A226521 | 1.48 |

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|---------|-------|
| A22670 | 1.86 |
| A226765 | 0.60 |
| A226814 | 0.74 |
| A226913 | 3.24 |
| A226931 | 0.23 |
| A227311 | 4.40 |
| A227488 | 2.42 |
| A227492 | 0.35 |
| A227505 | 0.60 |
| A227541 | 0.84 |
| A227573 | 4.45 |
| A227587 | 3.57 |
| A227686 | 1.45 |
| A227816 | 0.58 |
| A227852 | 0.16 |
| A227898 | 0.17 |
| A227901 | 0.42 |
| A228002 | 0.17 |
| A228016 | 1.05 |
| A228034 | 0.37 |
| A228070 | 0.17 |
| A228250 | 0.11 |
| A22828 | 3.28 |
| A228309 | 2.35 |
| A228575 | 19.03 |
| A228593 | 6.72 |
| A228624 | 4.12 |
| A228656 | 2.18 |
| A228872 | 2.14 |
| A228886 | 1.02 |
| A228949 | 4.47 |
| A228971 | 0.87 |
| A229022 | 3.85 |
| A229072 | 0.36 |
| A229298 | 0.26 |
| A229333 | 0.44 |
| A229365 | 0.12 |
| A229531 | 0.27 |
| A229559 | 0.18 |
| A229630 | 2.38 |
| A229676 | 1.18 |
| A229707 | 4.68 |
| A229806 | 0.99 |
| A230233 | 4.40 |
| A230346 | 1.84 |
| A230562 | 3.00 |
| A230607 | 0.44 |
| A230639 | 2.19 |
| A230738 | 2.37 |

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| A230819 | 1.68 |
| A230922 | 3.48 |
| A230954 | 0.75 |
| A231140 | 3.99 |
| A231285 | 1.14 |
| A231384 | 0.40 |
| A231483 | 4.71 |
| A23159 | 0.88 |
| A231609 | 0.18 |
| A231811 | 0.09 |
| A23195 | 0.35 |
| A232273 | 0.35 |
| A232386 | 2.37 |
| A232390 | 1.32 |
| A232520 | 2.20 |
| A232944 | 0.26 |
| A232976 | 1.74 |
| A233194 | 0.56 |
| A233324 | 0.93 |
| A233522 | 3.49 |
| A23438 | 4.36 |
| A23474 | 0.43 |
| A23523 | 0.01 |
| A23537 | 1.49 |
| A235463 | 0.84 |
| A235508 | 0.20 |
| A235526 | 1.05 |
| A235544 | 0.38 |
| A23640 | 0.03 |
| A237093 | 0.25 |
| A237467 | 1.57 |
| A23749 | 0.35 |
| A237548 | 0.19 |
| A23767 | 3.98 |
| A238261 | 0.09 |
| A238275 | 4.25 |
| A238801 | 1.75 |
| A239312 | 1.50 |
| A239754 | 1.26 |
| A239768 | 1.25 |
| A239803 | 1.88 |
| A239853 | 1.45 |
| A239871 | 0.80 |
| A239920 | 1.31 |
| A240078 | 3.49 |
| A240082 | 1.93 |
| A240096 | 0.33 |
| A240456 | 2.04 |
| A240492 | 0.51 |

REPORT ITEM CCS 082 REFERS

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| A240537 | 2.96 |
| A240587 | 0.43 |
| A240591 | 0.21 |
| A240686 | 0.87 |
| A240717 | 1.42 |
| A240753 | 3.42 |
| A240866 | 0.90 |
| A241246 | 0.09 |
| A241327 | 4.06 |
| A241331 | 4.06 |
| A241395 | 2.42 |
| A241408 | 0.24 |
| A241412 | 0.24 |
| A241426 | 0.26 |
| A241476 | 2.58 |
| A241953 | 0.96 |
| A24214 | 2.89 |
| A242563 | 2.51 |
| A242612 | 8.30 |
| A24264 | 0.15 |
| A24282 | 1.30 |
| A243042 | 0.64 |
| A243614 | 0.39 |
| A24381 | 0.05 |
| A244107 | 1.42 |
| A24606 | 0.55 |
| A24822 | 1.34 |
| A25284 | 0.72 |
| A25347 | 0.04 |
| A25707 | 4.30 |
| A26501 | 1.36 |
| A26515 | 0.13 |
| A26628 | 2.03 |
| A26777 | 0.31 |
| A26781 | 0.28 |
| A27076 | 3.01 |
| A27193 | 3.78 |
| A27256 | 0.81 |
| A27864 | 0.29 |
| A27882 | 1.04 |
| A2793 | 2.06 |
| A28127 | 0.17 |
| A28145 | 0.13 |
| A28587 | 0.16 |
| A28591 | 4.38 |
| A28640 | 0.16 |
| A28870 | 4.94 |
| A28997 | 2.07 |
| A29066 | 1.93 |

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|--------|------|
| A29084 | 1.27 |
| A29165 | 0.99 |
| A29228 | 1.48 |
| A29507 | 0.82 |
| A29660 | 2.94 |
| A3006 | 2.33 |
| A30475 | 2.03 |
| A30493 | 1.62 |
| A30655 | 0.41 |
| A30669 | 0.23 |
| A30790 | 0.12 |
| A31689 | 0.91 |
| A3204 | 1.09 |
| A32073 | 0.01 |
| A32334 | 0.66 |
| A32433 | 2.65 |
| A32497 | 2.16 |
| A32532 | 1.71 |
| A32564 | 1.26 |
| A32613 | 1.43 |
| A33205 | 3.37 |
| A33372 | 2.09 |
| A33796 | 4.07 |
| A33895 | 3.14 |
| A33976 | 0.64 |
| A34077 | 1.37 |
| A34081 | 4.01 |
| A3420 | 2.93 |
| A34207 | 1.39 |
| A34338 | 4.25 |
| A3452 | 0.18 |
| A34734 | 0.91 |
| A34770 | 0.19 |
| A34883 | 0.88 |
| A35065 | 1.36 |
| A35182 | 0.90 |
| A35231 | 1.45 |
| A35245 | 2.34 |
| A36116 | 0.15 |
| A36134 | 1.58 |
| A36198 | 0.27 |
| A36229 | 0.85 |
| A36463 | 1.60 |
| A36625 | 3.92 |
| A36805 | 0.72 |
| A36869 | 3.49 |
| A36873 | 2.18 |
| A36954 | 1.33 |
| A37055 | 0.05 |

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| A37118 | 2.33 |
| A3713 | 0.69 |
| A37217 | 0.13 |
| A37235 | 0.85 |
| A37302 | 1.69 |
| A37582 | 1.41 |
| A37811 | 1.69 |
| A37910 | 3.79 |
| A38192 | 0.68 |
| A38205 | 3.06 |
| A38467 | 3.01 |
| A38471 | 0.84 |
| A38732 | 0.71 |
| A38764 | 0.84 |
| A39194 | 0.01 |
| A39275 | 0.15 |
| A39487 | 0.62 |
| A39491 | 1.48 |
| A3957 | 0.50 |
| A39635 | 0.31 |
| A39667 | 3.64 |
| A39801 | 1.76 |
| A39865 | 0.39 |
| A4008 | 0.52 |
| A40107 | 0.16 |
| A40139 | 0.56 |
| A40602 | 3.24 |
| A40747 | 0.90 |
| A40959 | 1.33 |
| A41983 | 0.18 |
| A42444 | 3.21 |
| A42494 | 0.15 |
| A42511 | 4.82 |
| A42543 | 1.48 |
| A42624 | 4.36 |
| A42638 | 0.57 |
| A42660 | 2.14 |
| A4274 | 4.41 |
| A42903 | 0.22 |
| A42935 | 2.34 |
| A43167 | 3.83 |
| A43383 | 0.10 |
| A43577 | 1.74 |
| A43581 | 4.64 |
| A4369 | 3.37 |
| A43991 | 0.37 |
| A44466 | 0.14 |
| A44876 | 1.51 |
| A44925 | 1.81 |

REPORT ITEM CCS 082 REFERS

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|--------|------|
| A45468 | 3.22 |
| A45472 | 4.56 |
| A45846 | 4.12 |
| A46258 | 0.01 |
| A46325 | 2.57 |
| A46460 | 1.12 |
| A46668 | 9.30 |
| A46703 | 2.57 |
| A46997 | 0.41 |
| A47660 | 0.39 |
| A47787 | 1.57 |
| A47840 | 3.39 |
| A48301 | 2.36 |
| A48531 | 0.17 |
| A48630 | 4.13 |
| A48923 | 2.79 |
| A49024 | 1.74 |
| A4909 | 2.42 |
| A4931 | 4.37 |
| A49498 | 0.75 |
| A49579 | 1.68 |
| A49678 | 3.50 |
| A49713 | 2.03 |
| A49745 | 0.57 |
| A49808 | 3.43 |
| A4981 | 0.39 |
| A49876 | 3.28 |
| A50005 | 0.47 |
| A50221 | 2.36 |
| A50302 | 3.20 |
| A50316 | 3.28 |
| A50384 | 1.33 |
| A50451 | 1.36 |
| A50479 | 1.85 |
| A50483 | 2.73 |
| A50677 | 3.81 |
| A50794 | 1.07 |
| A50938 | 0.62 |
| A51237 | 0.06 |
| A51269 | 0.12 |
| A51368 | 0.12 |
| A51390 | 0.37 |
| A51534 | 1.58 |
| A51629 | 0.09 |
| A51859 | 2.73 |
| A51930 | 2.54 |
| A51994 | 1.65 |
| A52685 | 0.82 |
| A52829 | 1.63 |

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|--------|------|
| A53065 | 1.09 |
| A53146 | 1.02 |
| A53295 | 1.59 |
| A53308 | 4.75 |
| A53394 | 1.93 |
| A53475 | 1.09 |
| A53736 | 0.88 |
| A5375 | 0.64 |
| A53821 | 0.57 |
| A53849 | 0.92 |
| A53916 | 2.83 |
| A53970 | 1.49 |
| A54265 | 0.30 |
| A54297 | 1.82 |
| A54431 | 1.67 |
| A54508 | 1.28 |
| A54639 | 0.77 |
| A54891 | 4.91 |
| A55203 | 0.35 |
| A55320 | 2.89 |
| A5541 | 0.19 |
| A55609 | 0.23 |
| A55762 | 0.48 |
| A55924 | 3.43 |
| A5605 | 0.01 |
| A5650 | 2.40 |
| A5654 | 0.08 |
| A5664 | 3.44 |
| A5692 | 3.08 |
| A5700 | 0.18 |
| A5714 | 2.71 |
| A5723 | 0.58 |
| A5734 | 1.63 |
| A5753 | 0.38 |
| A5774 | 3.36 |
| A5805 | 0.37 |
| A5829 | 1.83 |
| A5833 | 3.44 |
| A5842 | 2.43 |
| A5900 | 1.45 |
| A5931 | 1.03 |
| A5934 | 1.02 |
| A5971 | 2.18 |
| A5984 | 4.30 |
| A6002 | 0.49 |
| A6007 | 1.45 |
| A6051 | 2.19 |
| A6098 | 4.42 |
| A6104 | 1.29 |

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|--------|------|
| A6161 | 3.16 |
| A6164 | 0.34 |
| A6172 | 0.02 |
| A6183 | 0.69 |
| A6185 | 3.90 |
| A6193 | 2.18 |
| A6227 | 3.44 |
| A6261 | 0.19 |
| A6270 | 2.54 |
| A6278 | 4.32 |
| A62808 | 4.40 |
| A62894 | 4.71 |
| A62925 | 1.36 |
| A63323 | 0.16 |
| A6359 | 0.15 |
| A64078 | 2.56 |
| A64082 | 0.58 |
| A64181 | 4.16 |
| A64195 | 0.15 |
| A64212 | 2.63 |
| A64244 | 0.58 |
| A64771 | 0.16 |
| A65377 | 0.10 |
| A65543 | 1.02 |
| A65840 | 1.00 |
| A65935 | 1.36 |
| A65949 | 0.33 |
| A65999 | 1.62 |
| A66379 | 3.07 |
| A6656 | 3.85 |
| A67254 | 0.48 |
| A67367 | 3.07 |
| A67448 | 4.39 |
| A67777 | 4.38 |
| A68288 | 2.15 |
| A68585 | 2.36 |
| A68599 | 1.09 |
| A68698 | 0.10 |
| A68729 | 0.18 |
| A69000 | 4.28 |
| A69032 | 4.97 |
| A69163 | 3.70 |
| A69181 | 0.61 |
| A69244 | 4.32 |
| A69523 | 1.99 |
| A69690 | 0.27 |
| A70027 | 1.98 |
| A70158 | 1.77 |
| A7036 | 2.37 |

REPORT ITEM CCS 082 REFERS

| | |
|--------|------|
| A70473 | 3.33 |
| A70572 | 0.52 |
| A70720 | 4.34 |
| A70883 | 0.53 |
| A7090 | 0.38 |
| A70996 | 1.29 |
| A71065 | 3.06 |
| A71097 | 0.37 |
| A71489 | 4.04 |
| A71560 | 2.02 |
| A71574 | 0.97 |
| A71623 | 0.59 |
| A71637 | 0.68 |
| A71718 | 2.19 |
| A71849 | 2.42 |
| A71948 | 3.82 |
| A7216 | 1.94 |
| A72508 | 0.48 |
| A72760 | 0.93 |
| A72904 | 0.47 |
| A73087 | 3.44 |
| A73299 | 0.01 |
| A73596 | 3.39 |
| A7379 | 3.01 |
| A74075 | 1.01 |
| A74174 | 2.35 |
| A74598 | 1.59 |
| A74764 | 0.61 |
| A74962 | 0.58 |
| A75702 | 1.44 |
| A75900 | 1.78 |
| A75946 | 4.06 |
| A76114 | 0.79 |
| A76461 | 1.43 |
| A76669 | 4.83 |
| A76754 | 3.89 |
| A7676 | 3.07 |
| A76853 | 1.09 |
| A76899 | 0.15 |
| A76934 | 0.57 |
| A76970 | 0.59 |
| A77067 | 0.01 |
| A77378 | 0.81 |
| A77409 | 3.18 |
| A77459 | 3.60 |
| A77661 | 0.35 |
| A77841 | 2.35 |
| A77922 | 1.27 |
| A78564 | 4.24 |

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|--------|------|
| A78631 | 0.34 |
| A78875 | 0.29 |
| A79124 | 0.31 |
| A79160 | 3.85 |
| A79188 | 4.52 |
| A79269 | 0.65 |
| A79340 | 1.72 |
| A7937 | 1.80 |
| A79485 | 3.10 |
| A79598 | 0.26 |
| A79728 | 0.63 |
| A79958 | 0.27 |
| A80038 | 2.20 |
| A80349 | 3.74 |
| A8060 | 0.70 |
| A80989 | 3.76 |
| A81224 | 0.73 |
| A81387 | 2.02 |
| A81391 | 0.96 |
| A81553 | 0.29 |
| A81959 | 0.75 |
| A81995 | 3.77 |
| A82082 | 2.69 |
| A82127 | 0.56 |
| A82159 | 4.44 |
| A82163 | 3.94 |
| A82181 | 0.41 |
| A82834 | 2.69 |
| A82848 | 0.81 |
| A82947 | 0.83 |
| A82983 | 2.99 |
| A83282 | 0.73 |
| A83313 | 1.14 |
| A83363 | 0.56 |
| A83610 | 2.37 |
| A83688 | 0.57 |
| A83804 | 0.01 |
| A84171 | 1.42 |
| A84298 | 0.74 |
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| A84559 | 1.82 |
| A84581 | 3.53 |
| A84806 | 2.57 |
| A84888 | 4.22 |
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| | |
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| A9292 | 2.63 |
| A92930 | 2.35 |

REPORT ITEM CCS 082 REFERS

| | |
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| A92980 | 1.68 |
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| A93059 | 0.59 |
| A93158 | 1.41 |
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| A99740 | 0.30 |
| A99899 | 0.13 |

CITY OF ALBANY

LOCAL PLANNING SCHEME No. 1

AMENDMENT No. 27

MINISTER FOR PLANNING

PROPOSAL TO AMEND A LOCAL PLANNING SCHEME

LOCAL AUTHORITY: **CITY OF ALBANY**

DESCRIPTION OF LOCAL PLANNING SCHEME: **LOCAL PLANNING SCHEME No. 1**

TYPE OF SCHEME: **DISTRICT SCHEME**

SERIAL No. OF AMENDMENT: **AMENDMENT No. 27**

PROPOSAL:

- i. To transfer Lots 84, 85, 86 and portion of Lots 87 & 98 Home, Harding & Frenchman Bay Roads Robinson from Rural Residential Zone 29 within Schedule 14 to Rural Residential Zone 43.
- ii. To modify existing and introduce new Special Provisions and reference the Frenchman Bay, Harding & Home Roads Local Structure Plan within Schedule 14 Rural Residential Zone 43.

LOCAL PLANNING SCHEME No. 1

AMENDMENT No. 27

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1. RESOLUTION
2. REPORT
3. EXECUTION

PLANNING AND DEVELOPMENT ACT 2005

**RESOLUTION TO PREPARE AMENDMENT
TO LOCAL PLANNING SCHEME**

CITY OF ALBANY

LOCAL PLANNING SCHEME No. 1

DISTRICT SCHEME

AMENDMENT No. 27

RESOLVED that the local government pursuant to Section 72 of the *Planning and Development Act 2005*, amend the above Local Planning Scheme by:

- i. Transferring Lots 84, 85, 86 and portion of Lots 87 & 98 Home, Harding & Frenchman Bay Roads Robinson from Rural Residential Zone 29 within Schedule 14 to Rural Residential Zone 43.
- ii. Modify existing and introduce new Special Provisions and reference the Frenchman Bay, Harding & Home Roads Local Structure Plan within Schedule 14 Rural Residential Zone 43.

The amendment is a Standard Amendment under the provisions of the *Planning and Development (Local Planning Schemes) Regulations 2015* for the following reasons.

- It is an amendment relating to a zone or reserve that is consistent with the objectives identified in the scheme for that zone or reserve;
- It is an amendment that is consistent with a local planning strategy for the scheme that has been endorsed by the Commission;
- It is an amendment that would have minimal impact on land in the scheme area that is not the subject of the amendment; and
- It is an amendment that does not result in any significant environmental, social, economic or governance impacts on land in the scheme area.

Dated this _____ day of _____

CHIEF EXECUTIVE OFFICER

CITY OF ALBANY
LOCAL PLANNING SCHEME No. 1
AMENDMENT No. 27

ADDITIONS TO
RURAL RESIDENTIAL ZONE No. 43
HOME & HARDING ROAD PRECINCT

PLANNING REPORT

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1. INTRODUCTION

It is proposed to transfer Lots 84, 85 & 86, as well as the Rural Residential zoned portions of Lots 87 & 98 Home & Harding Roads, Robinson, from Rural Residential Zone Area 29 to Area 43.

It is also proposed to make reference to a Local Structure Plan which covers the subject land and to modify a number of existing provisions to cater for the subdivision, development and ongoing use of the land.

With the exception of the areas of Lots 87 & 98 zoned Residential, the land forms a discrete precinct in the southern portion of the City of Albany's existing Rural Residential Zone No. 29.

The purpose of the amendment is:

- a) To enable the subdivision of 5 existing lots, into 14 lots, with a minimum lot size of 1 hectare; and
- b) To consistently reflect land use compatibility within the Priority 3 water source protection area.

Water Source Protection areas exist within Albany to establish compatible land uses. Three priority areas exist. The Priority 1 area exists to generally not permit development, the Priority 2 area exists to support development subject to limitations and the Priority 3 area exists over land where water supply sources need to co-exist with other land uses such as residential and commercial.

The Priority 2 and 3 areas exist over the Rural Residential No. 29 zone. The Priority 3 area exists over the Rural Residential No. 43 zone.

The transfer of lots zoned Rural Residential No. 29 and within the Priority 3 area, to the Rural Residential No. 43 zone, is a consistent reflection of land use compatibility for the Priority 3 area.

In accordance with the Draft Government Sewerage Policy, exemptions to the mandatory requirement for connection to reticulated sewerage may be considered for subdivision proposals for the creation of lots greater than one hectare in Priority 3 public drinking water source areas in rural residential/rural living zones.

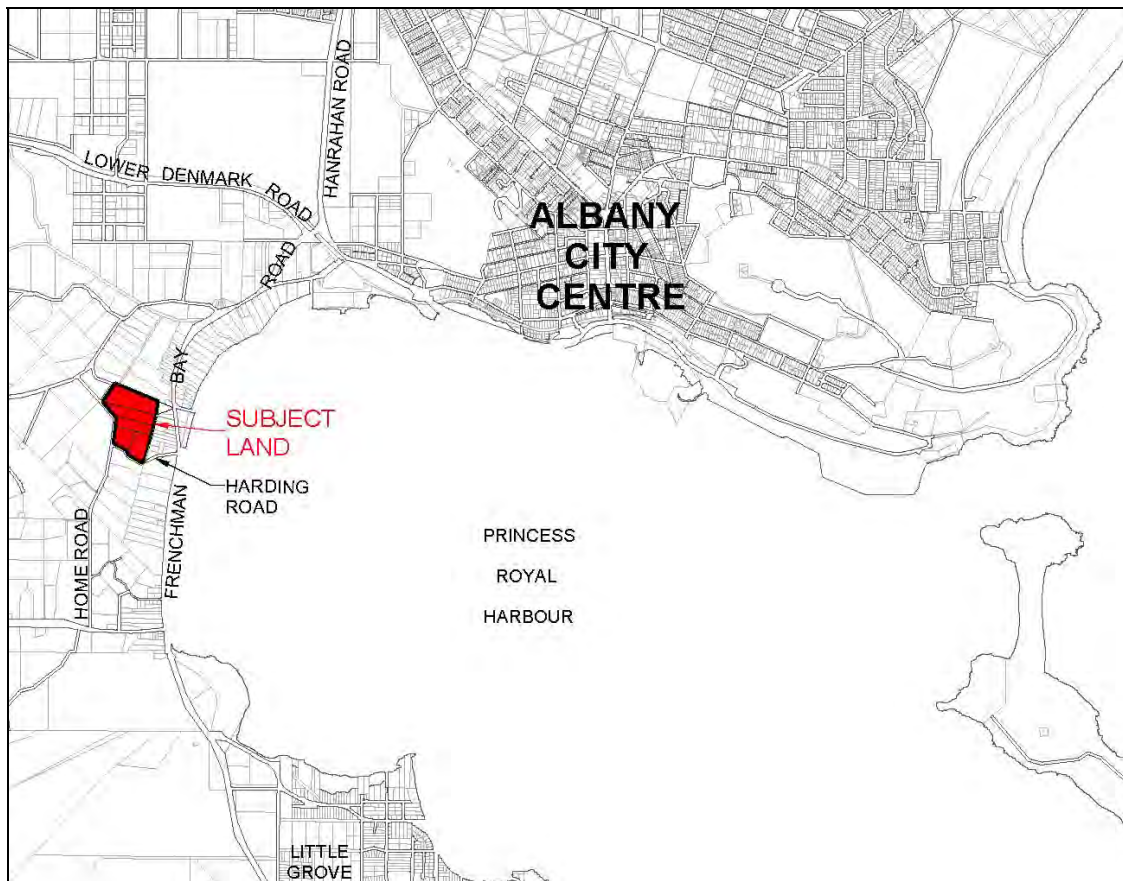
This proposal has been foreshadowed by the Albany Local Planning Strategy, strongly supporting more efficient use of existing zoned land and the Local Planning Scheme, requiring the preparation and adoption of a Structure Plan prior to the intensification of development, as well as background liaison with both Council and the Department for Planning.

This document supports and should be read with the Frenchman Bay, Harding & Home Roads Local Structure Plan and Map.

2. BACKGROUND

2.1 Location, Area & Zoning

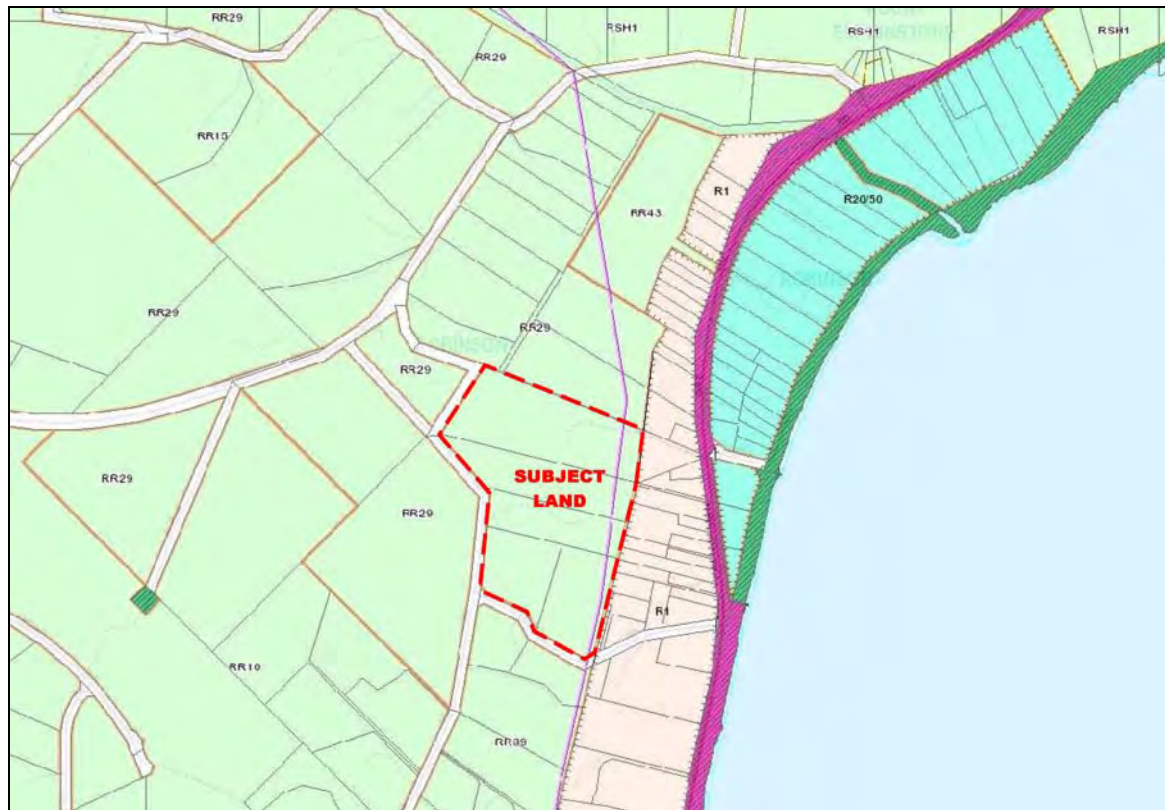
The precinct is located some 5.5km south west of the Albany City Centre and is accessed via Princess Royal Drive and Frenchman Bay Road.



Location Plan

| Lot No.: | Lot Size: | Lot Access: |
|----------|-----------|----------------------------|
| 84 | 2.7363ha | Harding Road |
| 85 | 2.0187ha | Harding & Home Roads |
| 86 | 2.2085ha | Home Road |
| 87 | 2.9078ha | Frenchman Bay & Home Roads |
| 98 | 5.4802ha | Frenchman Bay & Home Roads |

Apart from the area of Lot 98 fronting Frenchman Bay Road and the Lot 87 access leg, the land is zoned Rural Residential and is included in Area 29 of Local Planning Scheme No. 1. It is surrounded by existing Special Rural development (north and west), unsewered residential to the east and further east, the Princess Royal Harbour Foreshore (parks and recreation reserve). Currently there is no Local Structure Plan covering the Subject Land.



Extract from LPS 1 Scheme Map

2.2 Site Description

Land Assessment Pty Ltd has completed a land capability and geotechnical investigation of the subject land (see Appendix A). It describes the site as follows:

The land contains a mixture of cleared and vegetated areas and there is a residence on each of the five existing lots. There are no significant rural pursuits although portions of lots 85 and 98 are used for stabling and exercise of horses, and the eastern part of lot 98 is subject to grazing by goats.

As parts of the subject land are located on relatively low-lying terrain inland from Princess Royal Harbour, environmental assessment of the land needs to consider its capability to support on-site disposal of domestic effluent and wastewater, and to address the potential for further development to be affected by any Acid Sulfate Soil conditions.

The assessment found that none of the three vegetation types represented in the pockets on site occur at less than 30% of their pre clearing extent and none of the areas would require any significant to create additional house sites or access ways. Soils, site conditions, land capability, acid sulfate and other issues are discussed further in this report and in Appendix A.

2.3 Surrounding Land Use and Zoning

Immediately north of the subject land, Rural Residential Areas 29 & 43 continue and support lots down to 1ha in area. To the north east fronting Frenchman Bay Road are residential lots down to 2000m² in area. LPS1 has revised the minimum lot size in this area to 8500m². To the south is Rural Residential Area 39 with a minimum lot size of 1ha. To the south west is the Almore Park Rural Residential Estate. Almore Park, being within the Priority 2 area of the South Coast Groundwater Reserve, has a minimum Rural Residential lot size of 2ha.

Further north is Rural Residential Area 43 comprising 1ha lots on land currently used for grazing and stables. This area, being located on the lower flats, has requirements for a finished floor level of 2.74m and more tightly controlled building envelopes. Also being located immediately adjacent to small scale market garden activities, this area includes a 50m setback requirement incorporating a 20m wide vegetation buffer. The Provisions and Subdivision Guide Plan relating to Rural Residential Area 43 are included as Appendix B.

The subject land is therefore amongst the last land in the area capable of being developed to Rural Residential standards given groundwater protection controls and the prevailing planning context.

3. PLANNING CONTEXT

The key planning documents that relate to the subject land are the Lower Great Southern Strategy, the City of Albany's Local Planning Strategy (ALPS) and Local Planning Scheme No. 1 (LPSNo.1).

The Lower Great Southern Strategy (2015 – Draft) is soon to replace the 2007 Strategy. This is a regional strategy identifying regional level objectives and directions. It includes relevant nominated actions to:

- Provide efficiency in development form and servicing settlements.
- Carefully manage essential natural resources, particularly water supplies and agricultural land.
- Appropriately zone sufficient land for urban development and a variety of housing types, in accord with endorsed local planning strategies.
- Recognise public drinking water source areas in local planning strategies and protect them where appropriate in local planning schemes.

The strategy also notes that encouraging the provision of a range of residential living environments is a clear planning objective and that the location and amount of rural living land is to be determined through the Local Planning Strategy process.

The Albany Local Planning Strategy identifies the land within a Rural Residential and Residential R1 precinct and shows the land as suitable for accommodating some re-subdivision to provide more efficient and sustainable development.

Local Planning Scheme No. 1 identifies the land as "Rural Residential" and notes in cl4.2.17, the objectives to:

- "(a) Create small rural land holdings for residents who wish to enjoy a residential lifestyle within a rural landscape and environment; and*
- (b) Provide for residential and limited incidental land uses which—*
 - (i) Are compatible with the preservation and protection of environmentally sensitive areas such as remnant vegetation and groundwater protection areas;*
 - (ii) Do not visually detract from the landscape and the visual amenity of the locality;*
 - (iii) Allow for uses and developments that are fit for purpose and minimise any on-site or off-site impacts such as soil erosion, nutrient loss, drainage and potential land use conflicts; and*
 - (iv) Are located in close proximity to existing urban areas and can enjoy appropriate urban servicing to the lots including rubbish disposal, reticulated water, community facilities and fire infrastructure."*

Along with these documents some context is provided by the recent creation of Rural Residential Area No. 39 immediately south of the subject land. This Rural Residential area accommodates and provides for the form of subdivision and development covered in the current proposal.

The area is within the Department of Water South Coast Groundwater Reserve with a Priority 3 Coding. This coding provides for subdivision to a minimum average of 1ha where land is zoned and appropriate landuse controls apply, capability is acceptable and the land, such as the subject land, is situated beyond any wellhead protection zones.

Clearly the zoning, context and the objective of the current zone not only provides for the proposed development but both local and state strategies encourage it on efficiency and sustainability grounds.

As the land is already correctly zoned, the 2015 Planning Regulations and LPS1 requires the preparation, adoption by Council and endorsement by the WA Planning Commission, of a Local Structure Plan Map and the inclusion of relevant subdivision, development and land management provisions. Pursuant to the 2015 Planning Regulations, the process to achieve this is via the “Standard Amendment” and Local Structure Plan process.

While this document addresses the Local Planning Scheme Amendment issues, it also covers background and issues relevant to the Frenchman Bay, Harding & Home Roads Local Structure Plan and as a result, both documents should be read together.

4. SITE ASSESSMENT

Land Assessment Pty Ltd has completed a detailed assessment of the site for Rural Residential development. This is attached in Appendix A.

Summary.

Subject to the proposed pattern of subdivision enabling positioning of building envelopes for all 'new' lots within areas of either high (green) or fair (yellow) capability, the subject land is capable of supporting additional subdivision to the lot sizes permissible for the relevant land use zoning categories under the planning scheme (City of Albany 2014).

On-site effluent disposal.

For the major portion of the subject land (elevated dunal areas) conventional on-site effluent disposal systems (septic tanks and leach drains) will be appropriate for unsewered rural residential lots.

Should the plan of subdivision result in building envelopes being positioned within lower-lying portions where alternative treatment units are required, setback distances (both vertical and horizontal) are applicable to land application areas for effluent disposal.

Specific setbacks, and the required area for land application of treated effluent, can vary according to the type of system (i.e. a soil absorption system such as leach drains with amended soil, or an irrigation system associated with an aerobic treatment unit, ATU) and according to the method of any irrigation (i.e. surface sprays or drippers, or subsoil drippers).

Acid Sulfate Soils.

A search has been conducted of the State Government's contaminated sites database by planners Ayton Baesjou, who report that there are no records of contaminated sites within the subject land.

Notwithstanding the absence of any need for deep excavation works associated with further subdivision and development of the land for rural-residential use, field survey observations and some laboratory testing of subsoil material within the estuarine plain portion, indicate acid sulfate soils are not present.

Remnant Vegetation.

The proposed intensity of further subdivision should not require any significant clearing of the remaining native vegetation within the subject land.

Outside of the parkland cleared areas, where understorey species have been already been depleted, the more intact areas of remaining vegetation occur near the property fringes and are unlikely to be considered prospective sites for building envelopes given the proposed lot sizes.

Subject to site responsive subdivision design, the ALRS objective of protecting areas of remnant vegetation would not be compromised by the development proposal.

Groundwater Protection.

The Local Planning Scheme (City of Albany 2014) takes into consideration the Water Source Protection Plan for the South Coast Water Reserve (Water and Rivers Commission 2001) via designation of a special control area which extends over most of the subject land.

Subject to the plan of subdivision responding to the land capability mapping through appropriate positioning of 'new' building envelopes, and the creation of lots of equal or greater size to those determined by the Water Source Protection Priority Code (P3 – with a possible minimum average of 1 ha), the proposed intensification of rural residential development in this area should not jeopardize groundwater protection.

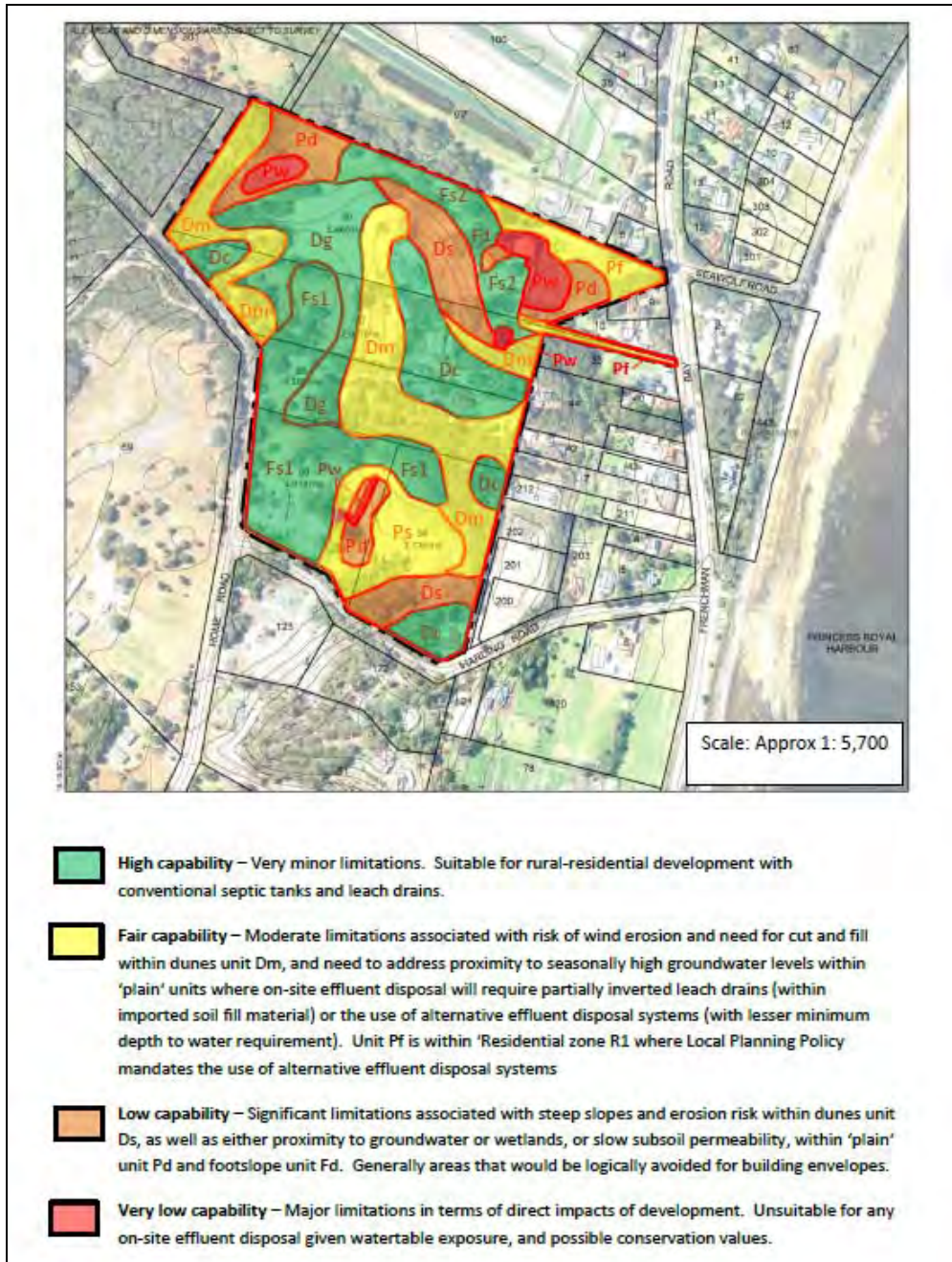
Surrounding Activities.

A small scale market garden is located some 50m to 80m north of the subject land. In other areas of Rural Residential Area No. 43, this activity is provided with 50m setback incorporating a 20m wide vegetated buffer.

In relation to the subject land however, this activity is buffered by an existing tree line some 20m to 50m wide. Internal setbacks to the northern boundary of an additional 20m are also available. This brings total setbacks to 70m to 100m incorporating a 20m to 50m vegetated buffer; well in excess of the established standard.

Land Capability.

The Land Capability Plan prepared by Land Assessment Pty Ltd shows the outcomes of the detailed assessment as below:



From this it can be seen that each existing lot has substantial areas of acceptable capability showing fair or high capability. Effluent disposal systems will need to avoid areas shown as low and very low.

5. SERVICES AND INFRASTRUCTURE

5.1 Roads & Access

In terms of access, Lot 84 has access to Harding Road, Lot 85 to both Harding and Home Roads, Lot 86 to Home Road and both Lots 87 and 98 access both Home and Frenchman Bay Road. For Lot 87 this is an established 5m wide battle-axe leg/ driveway to Frenchman Bay Road and for Lot 98 this is a driveway within a frontage of 12m widening to 100m.

5.2 Potable Water Supply

Reticulated water supplies are partially available in the locality.

5.3 Effluent Disposal

Disposal of effluent on the properties and in the wider area is by way of on-site effluent disposal systems. Scheme sewer is not available.

In accord with the land assessment, new development will be required to utilise high performance nutrient retaining systems and Effluent Disposal Exclusion Areas will be identified over land with poor capability.

As noted previously, Department of Water Groundwater Protection Controls restrict effluent disposal density in this Rural Residential zone to 1 unit per 1ha average. This proposal will meet this requirement by ensuring this density is not exceeded and systems will be restricted to capable areas.

5.4 Power & Telecommunication

The properties have access to power and telecommunication services which are partially underground.

5.5 Schools and Community Facilities

Local, Neighbourhood and Regional services and facilities are readily accessible and available in the Albany City Centre some 5.5km by road to the north east.

6. PLANNING

Clause 5.5.13.3 of Local Planning Scheme No.1 requires a number of issues to be addressed. These include:

- Land Capability and suitability assessment;
- Protection and enhancement of the natural environment;
- Protection and enhancement of visual amenity;
- Provision of infrastructure and services;
- Impacts on adjacent land uses;
- Any potential for site contamination;
- Effluent disposal;
- Location of building envelopes, development exclusion areas;
- Preparation of a Subdivision Guide Plan for the subdivision showing proposed roads and connectivity between proposed /future and existing developments, lots, recreation areas, location of building envelopes, as relevant.

These issues are addressed in this report and on the attached Local Structure Plan.

6.1 Local Structure Plan – Lot Layout & Subdivision

The subdivision layout is shown for the lots overleaf on the Local Structure Plan Map. This plan is undergoing review and endorsement via a separate but complementary process. The plan will be applied at the time of subdivision along with the relevant Scheme No. 1 General Clauses and Special Provisions to guide that subdivision and the future development of and on the land.

6.2 Access

Existing accesses are utilised wherever possible. Regarding each lot:

Lot 84: One new crossover is required to Harding Road for the northern lot.

Lot 85: The new lot out of Lot 85 may make use of one of the existing crossovers to Home Road.

Lot 86: One new crossover is required for the new lot. With this noted, reciprocal access could be established over the existing driveway such that both lots effectively use the existing driveway and cross over and thus remove the need for new physical access to be constructed.

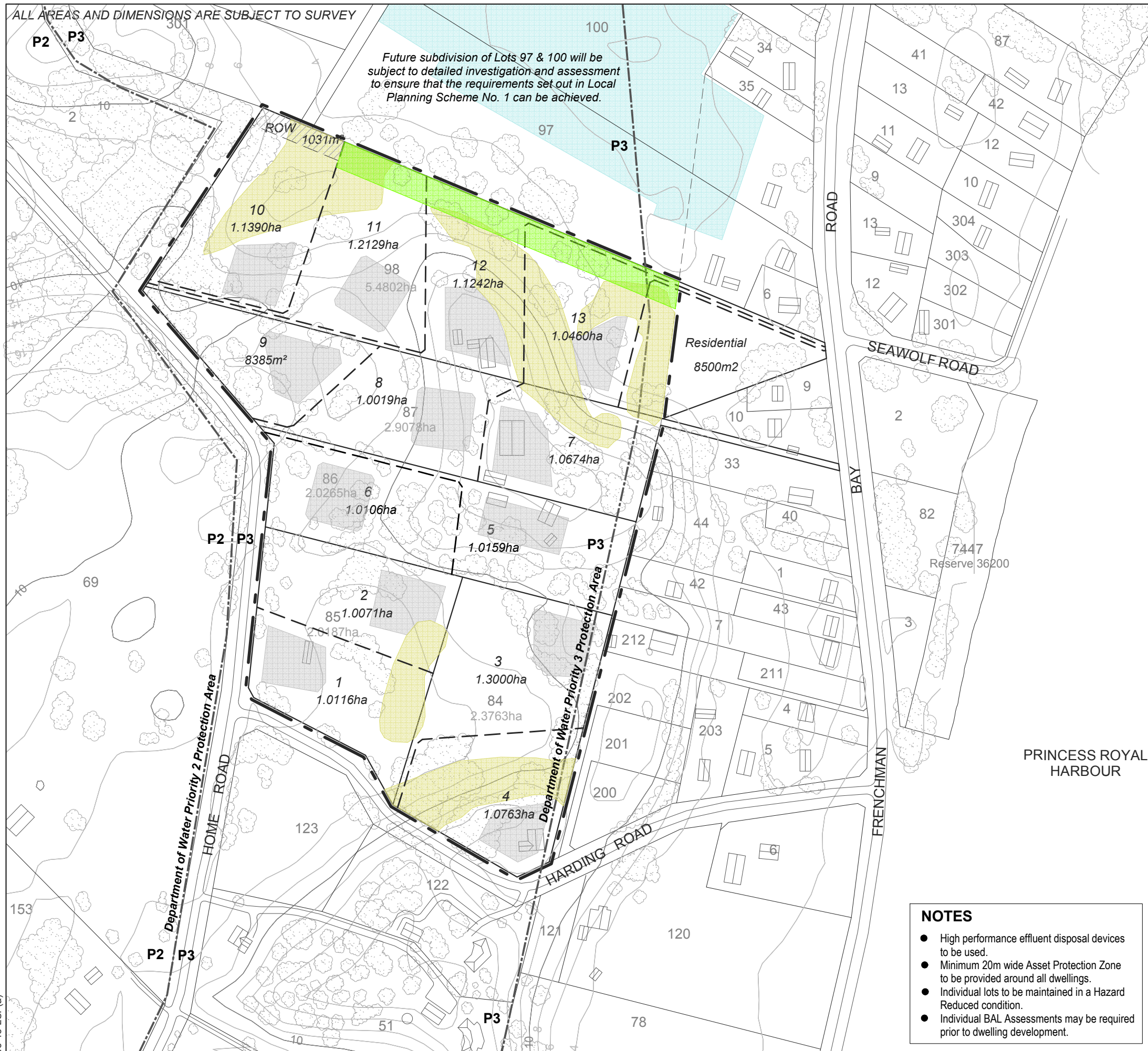
Lot 87: The existing dwelling retains the existing battle-axe to Frenchman Bay Road. There is also the option that the two new lots in the west may share the existing crossover to Home Road. No construction or visibility issues present.

Lot 98: The existing access on Frenchman Bay Road is retained as a battle-axe to serve the existing house lot and a lot to its east. The two western lots share an historic access to Home Road to the south west. A Right of Way may also be provided in the north western corner of the land to provide alternate access to Lot 97 north should it be required. In accord with Scheme Requirements for the Residential zone, a lot of 8500m² is shown over the land zoned Residential with direct frontage to Frenchman Bay Road.

Local Structure Plan

Frenchman Bay,
Home & Harding Roads
Rural Residential Area 43

Lots 84, 85 Harding Road &
Lots 86, Pt87 & Pt98 Home Road
Robinson, City of Albany



LEGEND

- Subject Land
- Existing Lot Boundaries
- Proposed Lot Boundaries
- Existing Vegetation
- Existing Buildings
- Vegetated Agricultural Buffer
- Effluent Disposal Exclusion Area
- Market Garden
- Indicative Building Envelope Max 2000m2
- DoW Priority 2 Protection Area
- DoW Priority 3 Protection Area

Map Modification - 1a
Map Creator - BQ/MRT
Copyright - Aytou Baesjou Planning
Sources - Landgate (Cadastral & Contours)
Datum - AHD
Contact - Aytou Baesjou Planning
Disclaimer - Subject to Verification & Survey

ORIG A3
SCALE 1:3000

0 15 30 45 60 75

- NOTES**
- High performance effluent disposal devices to be used.
 - Minimum 20m wide Asset Protection Zone to be provided around all dwellings.
 - Individual lots to be maintained in a Hazard Reduced condition.
 - Individual BAL Assessments may be required prior to dwelling development.

AYTON BAESJOU
PLANNING
59 Peels Place
ALBANY WA 6330
Ph 9842 2304 Fax 9842 8494

Preference has been given to the continued use of existing and established crossovers. This provides that for the nine new lots only two new crossovers are required; both on the quiet local roads. With an allowance of approximately 5vpd per new lot, there will not be a significant impact on these existing access roads. Reciprocal rights of way are proposed over joint use battle-axe legs so as to minimise construction requirements and site disturbance.

The access to Frenchman Bay Road on Lots 87 & 98 allows for emergency access through to Home Road should it be required. In addition a Right of Way spur can be provided through to Lot 97 (offsite). This could provide alternate access for this lot should it be required if this land is considered for future development.

6.3 Landscape

The existing landscape character is small lot semi rural in nature with a mix of rural residential, horse based activities and small scale vegetable production on the low lying flats. Development fronting Frenchman Bay Road is residential in nature and will remain unchanged.

The amendment proposal and the Local Structure Plan Map retains these landscape qualities by ensuring rural residential/special rural lot sizes are maintained and by ensuring that no new development will be exposed to Frenchman Bay Road but is screened behind existing development. Home Road will retain its established semi rural character.

6.4 Capability and Site Assessment

A site and capability assessment is included within the Land Assessment Report (Appendix A). This assessment found minimal site constraints for the proposed limited rural residential development so long as development is confined to the capable and suitable areas shown, the setbacks to small scale vegetable production are retained and high performance onsite effluent disposal devices are utilised.

Each lot has access to capable and suitable house sites and is capable of supporting onsite effluent disposal. In accord with the findings of the Land Assessment report, areas of very low and low capability are shown as Development Exclusion.

In addition, the existing 50m – 80m vegetated setback to the small scale market garden will couple with the proposed 20m internal exclusion area to cater for development. This overall buffer significantly exceeds the standard applying in Rural Residential Area 43.

6.5 Servicing

Each lot is independently developable and will therefore need to support its own access construction as well as electrical and telecommunications connections. Services and connections are available generally in the area with no need for trunk extension.

Site conditions, soil permeability and the extremely low density of development allow for the continued use of swale & infiltration based storm water management for driveway and structure runoff.

Some rationalisation of internal services may also be required where existing domestic services conflict with new internal boundaries.

6.6 Fire Assessment

A fire hazard assessment and fire management proposals are included as Appendix B and satisfy State Planning Policy 3.7. This assessment ranks hazards and outlines requirements to be included in the development.

Requirements include:

- Preparation and implementation of a Bushfire Management Plan/s as a condition of subdivision.
- Notification to landowners of fire safety issues and individual responsibilities per the Bushfire Management Plan/s.
- Maintaining lots in a fuel reduced condition.
- Installing and maintaining Asset Protection Zones.
- Dwelling construction to specified fire safe standards.
- Modified perimeter fire break requirements.
- Access to existing street fire hydrants.

6.7 Existing Provisions

Rural Residential Area 43 has existing provisions in Schedule 14 to the Scheme. The provisions relate to the LSP Map, outline permissible landuses, the location of buildings, effluent disposal, access, landowner notification and provision of the agricultural buffer.

The adequately provide for the development of the subject land, the existing provisions will need to be modified to:

- Reference the LSP Map covering the new lots.
- Provide for potable water supplies for the new lots in the conventional manner whilst retaining the specific requirements necessary for the low laying land in the existing section of Rural Residential Area 43.
- Correct references to access leg widths.
- Provide for the new Vegetated Agricultural Buffer.

7. CONCLUSION

The Local Planning Scheme No. 1 Amendment and the Local Structure Plan Map proposal is a simple one providing for nine new lots within this contained & existing rural residential area.

The development of this structure plan and the limited resubdivision of the land is foreshadowed in the original zoning of the Rural Residential Area as well as efficiency and sustainability objectives within local and regional strategies. Planning satisfies cl 5.5.13.3k of the Scheme and provides for development already established and popular in the locality.

This is achieved whilst maintaining a low density of development and also providing for site sensitive development generally.

As a result, the proposal has clear merit and accords with the principals of orderly and proper planning.

Appendix A

Land Capability Assessment

RR 43 Home & Harding Road Precinct

Land Assessment Pty Ltd

LAND CAPABILITY ASSESSMENT AND PRELIMINARY GEOTECHNICAL INVESTIGATION

- Lots 84, 85 Harding Road &
Lots 86, 87 & 98 Home Road,
Robinson, City of Albany

Prepared for

AYTON BAESJOU PLANNING

by

Land Assessment Pty Ltd



LA Report No 1512
11 January 2016

LAND ASSESSMENT PTY LTD
P.O. Box 117 SUBIACO, WA 6008
Phone: (08) 9388 2427
Email: landass@inet.net.au

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- B ARVS Vegetation Unit Descriptions
- C Soil Profile Descriptions and Photographs
- D Acid Sulfate Test Results
- E Acid Sulfate Soils: Self-Assessment Form
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1.0 INTRODUCTION

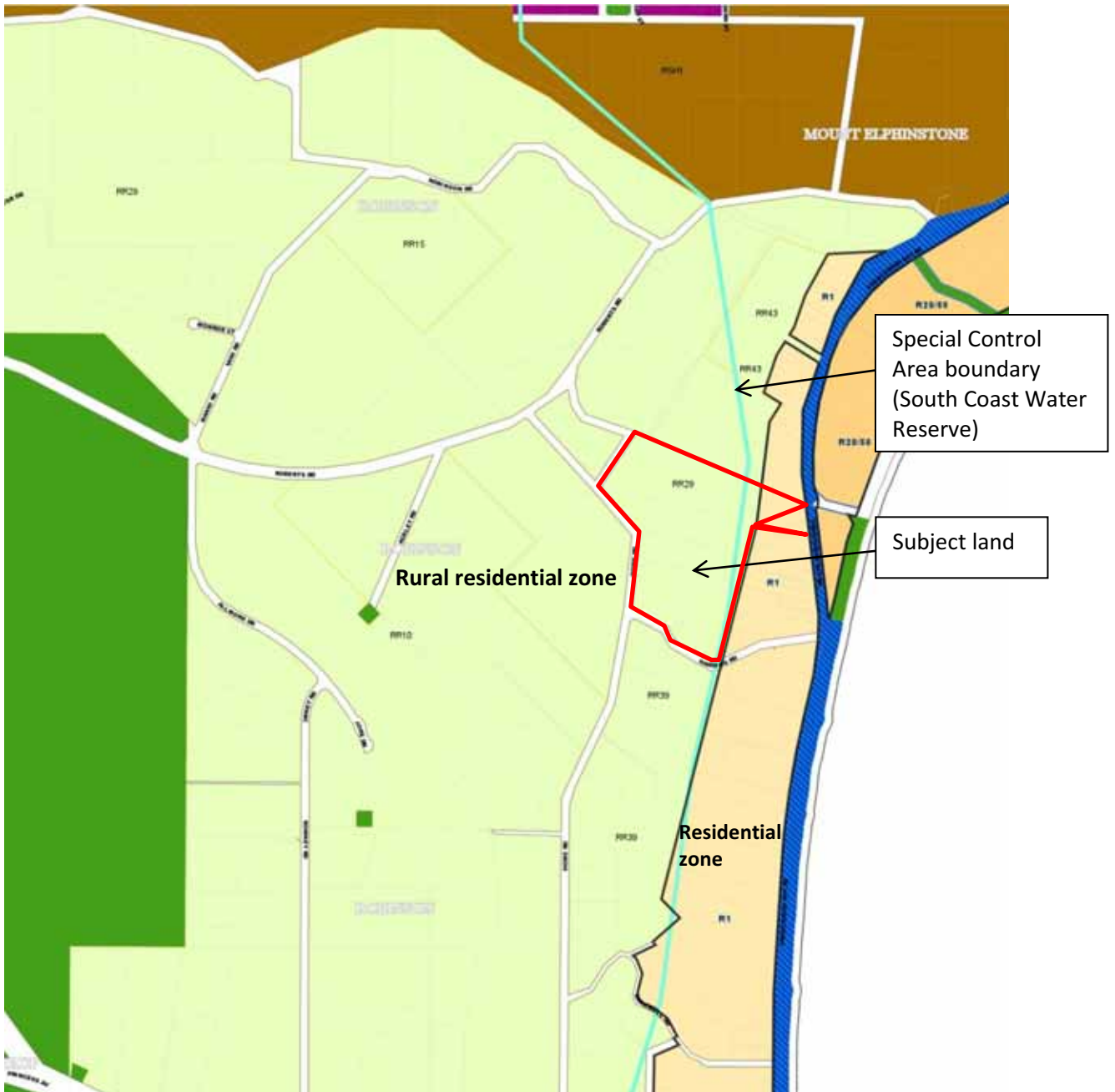
This report has been prepared at the request of Ayton Baesjou Planning to assist preparation of a Structure Plan for further subdivision of existing Lots 84, 85 Harding Road and Lots 86, 87 & 98 Home Road, within the Robinson locality of the City of Albany. Attachment A shows a base plan with site characteristics.

The subject land of approximately 15.3 ha is located on the southern side of Princess Royal Harbour, to the west of Frenchman Bay Road and approximately 3.5 km west-south-west of the Albany central business district. Figure 1 shows the study area is zoned 'Rural residential' (RR29) with the exception of the lower-lying eastern portion of Lot 98 and the battle-axe leg entrance to adjacent Lot 87, both of which are zoned 'Residential' (R1).

The land contains a mixture of cleared and vegetated areas and there is a residence on each of the five existing lots. There are no significant rural pursuits although portions of lots 85 and 98 are used for stabling and exercise of horses, and the eastern part of lot 98 is subject to grazing by goats.

As parts of the subject land are located on relatively low-lying terrain inland from Princess Royal Harbour, environmental assessment of the land needs to consider its capability to support on-site disposal of domestic effluent and wastewater, and to address the potential for further development to be affected by any Acid Sulfate Soil conditions.

FIGURE 1: LOCATION AND ZONING



Source: City of Albany Local Planning Scheme No 1 (District Scheme) Map 21.

2.0 POLICY CONTEXT

2.1 Local Planning Scheme (City of Albany 2014) and Policy

Rural Residential Zone (major portion)

It is understood from planners Ayton Baesjou that the possible minimum allowable average lot size within area RR29 is 1 ha. In relation to matters addressed by this report, relevant planning objectives for the Rural Residential Zone include;

Provide for residential and limited incidental land uses which:

- (i) Are compatible with the preservation and protection of environmentally sensitive areas such as remnant vegetation and groundwater protection areas;*
- (ii) Do not visually detract from the landscape and the visual amenity of the locality;*
- (iii) Allow for uses and developments that are fit for purpose and minimise any on-site or off-site impacts such as soil erosion, nutrient loss, drainage and potential land use conflicts.*

Residential Zone (minor portion)

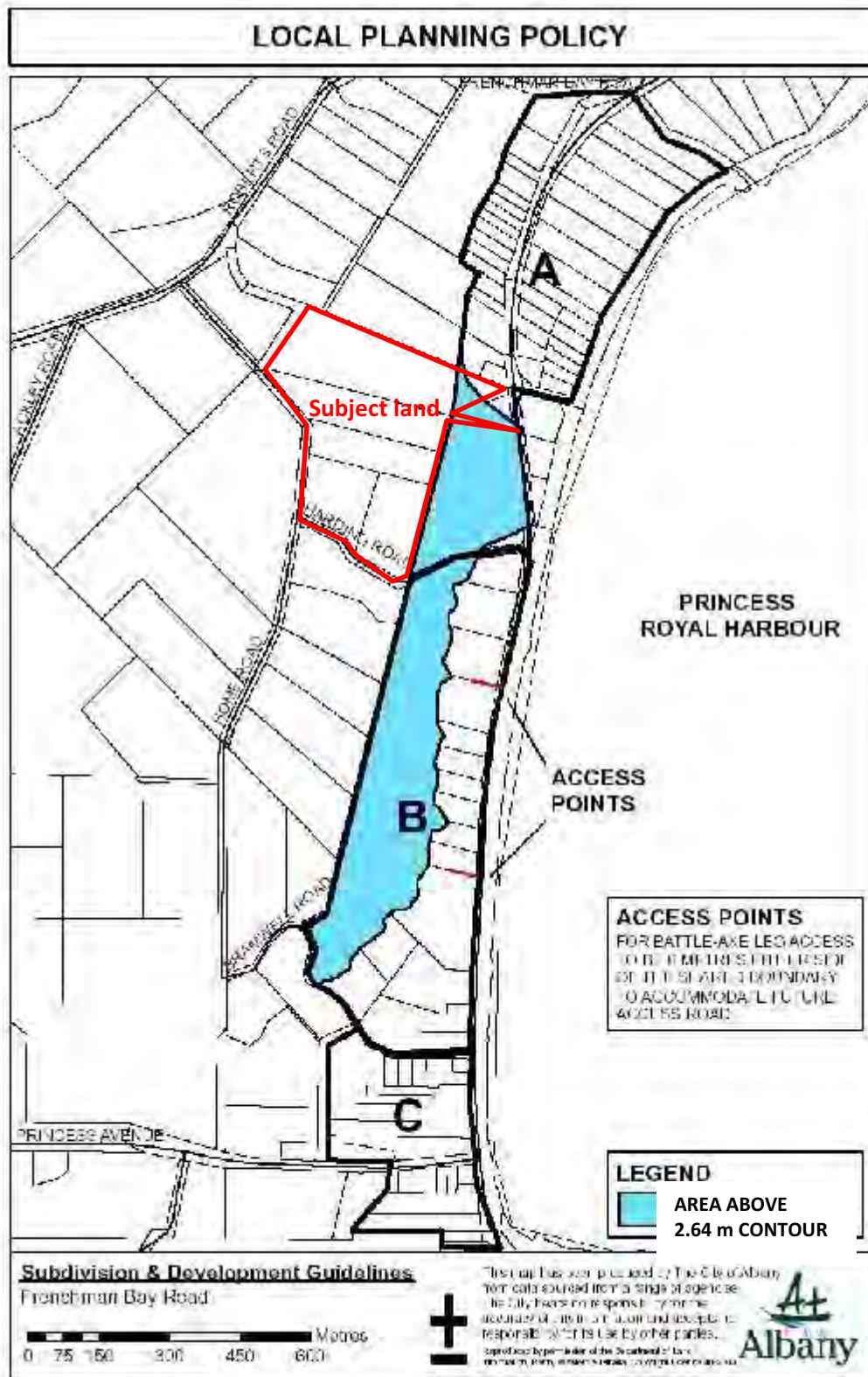
In relation to the Residential Zone portion encompassing the smaller eastern part of Lot 98, as well as the battle-axe entrance to adjacent Lot 87, it is understood from planners Ayton Baesjou that the minimum allowable lot size in this R1 designated area is 8500 sq m.

A Local Planning Policy for the Frenchman Bay Road Residential Development Area (City of Albany undated) addresses the effects of potential flooding or high ground water levels in this low lying area. It identifies this land as part of Precinct A with portions above and below a designated contour line at 2.64 m AHD (Figure 2).

The Local Planning Policy specifies that no subdivision proposals (within the Residential Zone) will be supported until such time as a conceptual local structure plan has been prepared for the portion of land above 2.64m AHD and, for the remaining lower lying area, until such time as infrastructure services (sewerage) have been extended to this locality.

For any subdivision of the Residential zoned land within the area above the 2.64m AHD contour, the policy also states that Council will require the resultant lots to utilise alternative effluent disposal systems, such as approved amended soil and/or aerobic systems.

FIGURE 2: FRENCHMAN BAY ROAD RESIDENTIAL DEVELOPMENT POLICY AREA



Source: City of Albany (undated) Policy - Frenchman Bay Road Residential Development Area

2.2 Local Planning Strategy (City of Albany 2010)

Rural residential zones are encompassed within a broad 'Rural Living' category where strategic objectives of Albany's Local Planning Strategy (ALPS) include

"In the long term encourage the efficient use of existing rural living areas, based on land capability to maximise their development potential."

The ALPS supports lot sizes from 1ha to 4ha in new Rural Residential areas subject to the provision of reticulated water and land capability analysis.

2.3 Special Control Area (South Coast Water Reserve)

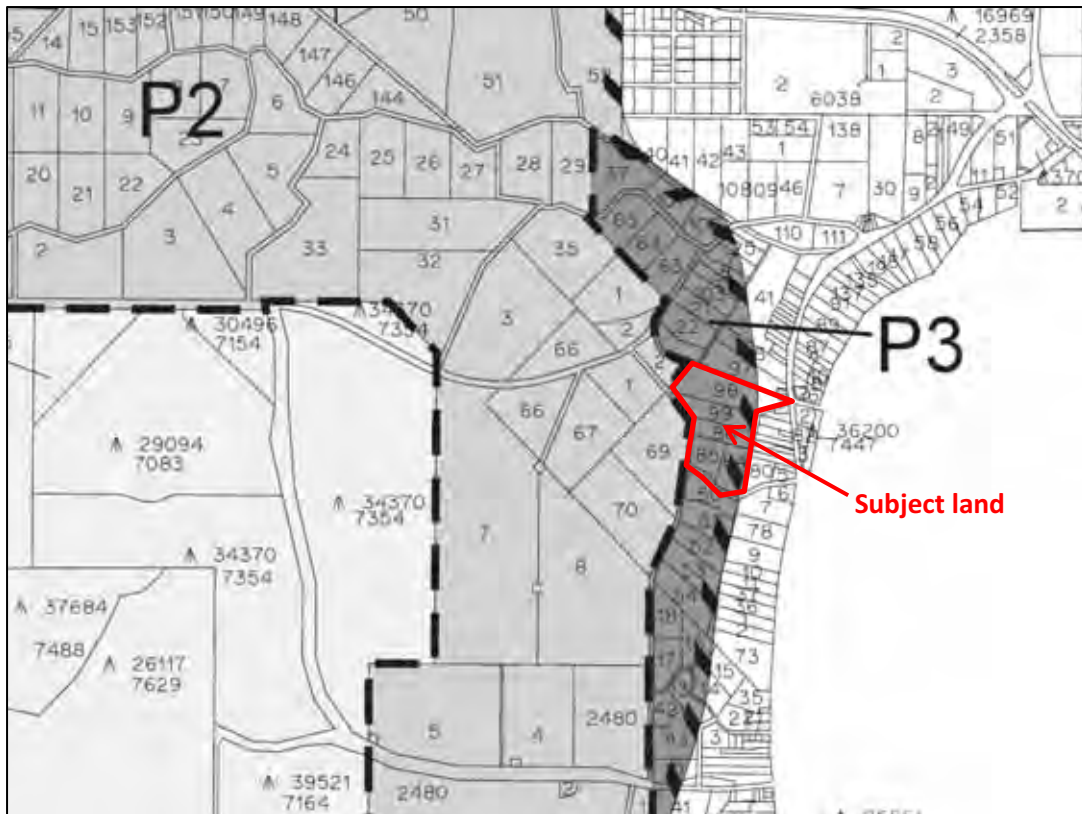
As shown in Figure 1 the major part of the subject land is designated under the Local Planning Scheme as part of a Special Control Area (SCA) for the protection of public drinking water sources.

This particular SCA covers the South Coast Water Reserve, and the Planning Scheme reflects the objectives of the *South Coast Water Reserve and Limeburners Creek Catchment Area Water Source Protection Plan* (Water and Rivers Commission 2001) where the dominant 'rural-residential' portion of subject land is designated a Priority 3 (P3) category. The lesser 'residential' zoned area closest to Frenchman Bay Road is outside of the SCA (Figure 3).

Appendix 1 of the Water Source Protection Plan outlines the (now) Department of Water's guidelines on *Land Use Compatibility in Public Drinking Water Source Areas* (Department of Environment 2004). Under a P3 category, water supply sources need to co-exist with other land uses, and rural-residential subdivision to a lot size of between 1 and 2 hectares is considered 'compatible' with water source protection subject to the following conditions;

- *An average, rather than minimum, lot size may be accepted if the proponent can demonstrate that the water quality objectives of the source protection area are met, and caveats/memorials are placed on titles of specified blocks stating that further subdivision shall not occur.*
- *Lots should only be created where land capability assessment shows that effective on-site soakage of treated wastewater can be achieved. Conditions apply to siting of wastewater disposal systems in areas with poor land drainage and/ or a shallow depth to groundwater, animals are held or fertiliser is applied. Alternative wastewater treatment systems, where approved by the Department of Health, may be accepted with ongoing maintenance requirements.*

FIGURE 3: RELEVANT PORTION OF WATER SOURCE PROTECTION PLAN



Source: Water and Rivers Commission (2001) *South Coast Water Reserve and Limeburners Creek Catchment Area Water Source Protection Plan*

2.4 On-site Sewage Management

The following policies and guideline documents have been considered in relation to the capability of the subject land to support further un-sewered development;

- *Draft Country Sewerage Policy* (Government of Western Australia 1999 - as amended to 2003).
- *Code of Practice for Onsite Sewage Management* (Department of Health 2012) Consultation Draft November 2012
- *Code of Practice for the Design, Manufacture, Installation and Operation of Aerobic Treatment Units (ATUs) Serving Single Households.* (Department of Health 2001).

These documents show the capability of land to accommodate an on-site effluent disposal system is influenced by a number of factors including system type, site drainage conditions, topography, soil depth, permeability, and depth to watertable.

Site requirements for on-site effluent disposal based on health criteria include the following specifications;

Gradient of the land - not to exceed one in five (i.e. not greater than 20% slope)

Site drainage – not subject to inundation or flooding at greater than once in 10 years

Depth to groundwater

- greater than 1.2 m from the underside of a wastewater disposal system prescribed under regulation 49 of the Regulations (*for example, leach drains associated with septic tanks*)
- as prescribed by Executive Director, Public Health for other approved wastewater disposal systems (*required separation from watertable varies with type and design of other approved systems – see DoH 2001 and DoH 2012 with the latter indicating a range 0.6 – 1.5 m is required above groundwater*).
- greater than 0.5 m from natural ground surface irrespective of type of system

Available area - unencumbered area of at least 150 m² required.

Soil depth - greater than 1.2 m depth to bedrock or impervious clay.

In addition to the requirements based on health criteria, the existing Government Sewerage Policy states; *the responsible authorities may require compliance with any special conditions of the (then) Department of Environment.*

The 'special conditions' based on environmental criteria relate to the protection of wetlands and watercourses, and are primarily expressed through setback distances as described in Appendix 2 of the *Draft Country Sewerage Policy* and reiterated in the City of Albany Local Planning Scheme (2014) as follows;

- Watercourses with permanent water – 50 metres;
- Seasonally flowing watercourses – 30 metres;
- Estuary or marine environment - 100 metres

The *Code of Practice for Onsite Sewage Management* (DoH 2012) also specifies setbacks from various types of effluent disposal systems for sub-soil or open drains as follows;

- Soil absorption systems (trenches, beds and mounds) – 6 metres;
- Dripper irrigation systems (associated with ATUs) - 3 metres
- Spray irrigation systems (associated with ATUs) - 6 metres.

Furthermore, in relation to dams or bores, the *Code of Practice for ATUs* (DoH 2001) specifies a 30 m setback where they are used or available for human or animal consumption. It has been assumed here that a 6 m setback is applicable where such water sources are precluded from human or animal consumption.

2.5 Acid Sulfate Soils

Acid sulfate soils (ASS) are wetland soils and unconsolidated sediments that contain iron sulfides which, when exposed to atmospheric oxygen in the presence of water, form sulfuric acid. This acid can mobilise or release heavy metals to the detriment of biota and built infrastructure in contact with drainage water.

ASS commonly occur in low-lying coastal lands such as marine or estuarine muds and sands that potentially underlie the surface soils within the eastern-most portion of the subject land. The City of Albany's *Local Planning Strategy* (2010) identifies lower lying portions of the Robinson locality as a high risk area.

The Western Australian Planning Commission's *Acid Sulfate Soils Planning Guidelines* (WAPC 2008) require a preliminary site assessment to be undertaken in 'at risk' areas, and wherever practicable to avoid disturbance of any subsequently identified acid sulfate soils. The potential for ASS is addressed in this report and an acid sulfate soils self-assessment form is included as Attachment E.

3.0 ENVIRONMENTAL SETTING

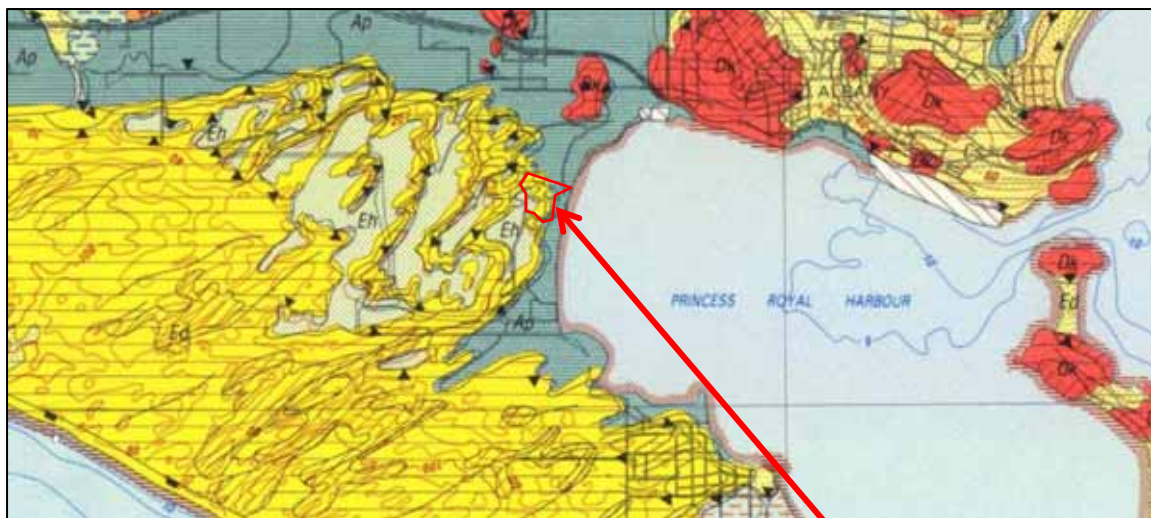
3.1 Geomorphology and Geology

The subject land predominantly encompasses an area of parabolic and nested parabolic dunes (and an associated deflation hollow) that extend over part of the estuarine plain fringing, and extending inland from, the western margins of Princess Royal Harbour (Figure 4).

The dunes are comprised of sands that are variably leached and have a core of calcareous limestone (aeolianite – LS₄) which is pale yellowish brown in colour and weakly cemented.

The underlying estuarine plain is exposed in the north eastern portion of the subject land as well as in the deflation hollow to the south west. The estuarine plain is reported by the Geological Survey of Western Australia to be overlain by predominantly siliceous, white to pale grey, alluvial sand (S₁₄) which, although being well drained (i.e. very permeable), is subject a high watertable and considered prone to flooding in part (Gozzard 1989).

FIGURE 4: GEOMORPHOLOGY & ENVIRONMENTAL GEOLOGY MAPPING



GEOMORPHOLOGICAL CLASSIFICATION

| | | | |
|----|---|-------------------|--|
| Ed | Parabolic and nested parabolic dunes, Quindakup Dune System | Ar | Estuarine beach ridges |
| Ed | Parabolic and nested parabolic dunes, Spearwood Dune System | At ₁₋₂ | Estuarine terraces, where identified |
| Eh | Deflation hollow | Cs | Colluvial slope |
| Er | Relict foredunes | Dk | Granitic knolls, inselbergs and bornhardts |
| Ap | Estuarine/alluvial plain | Ds | Denudational slopes in Tertiary sediments |

Subject land



GEOLOGY CLASSIFICATION

S₁₄ SAND – white to pale grey (Quaternary Alluvium)

LS₄ LIMESTONE – pale yellowish brown, weakly cemented (Quaternary dunes over estuarine deposits).

Sp₁ PEATY SAND – (Quaternary lake and swamp deposits)

Source: Gozzard (1989).

3.2 Acid Sulfate Soil Risk Mapping

Acid Sulfate Soil Risk Maps are available online through the Landgate's WA Atlas portal <https://www2.landgate.wa.gov.au/bmvf/app/waatlas/> Figure 5 shows the relevant portion of the Albany-Torbay map-sheet where the (former) Department of Environment and Conservation (DEC) has identified risk areas (in brown). The risk areas are based on the geomorphological classifications associated with the environmental geology mapping (Gozzard 1989) including the estuarine / alluvial plain areas (Ap in Figure 4).

FIGURE 5: ACID SULFATE SOIL RISK MAPPING



Source: Landgate WA Atlas recent online query.

3.3 Soil-landscape Mapping

CSIRO (Churchward et al 1988) have produced broad-scale mapping of the soils and landforms of the Albany region. This mapping has subsequently been incorporated into the soil-landscape mapping database of the Department of Agriculture and Food (DAFWA). Figure 6 shows the relevant portion, with the subject land forming part of the Meerup coastal dunes system, predominantly subsystem Mp which is described as; *Podzols over calcareous sand; banksia-bullich-yate woodland.*

* Podzols are siliceous sands with leached (light coloured) sandy topsoil over a stronger coloured sandy subsoil. Calcareous sands have an appreciable calcium carbonate content.

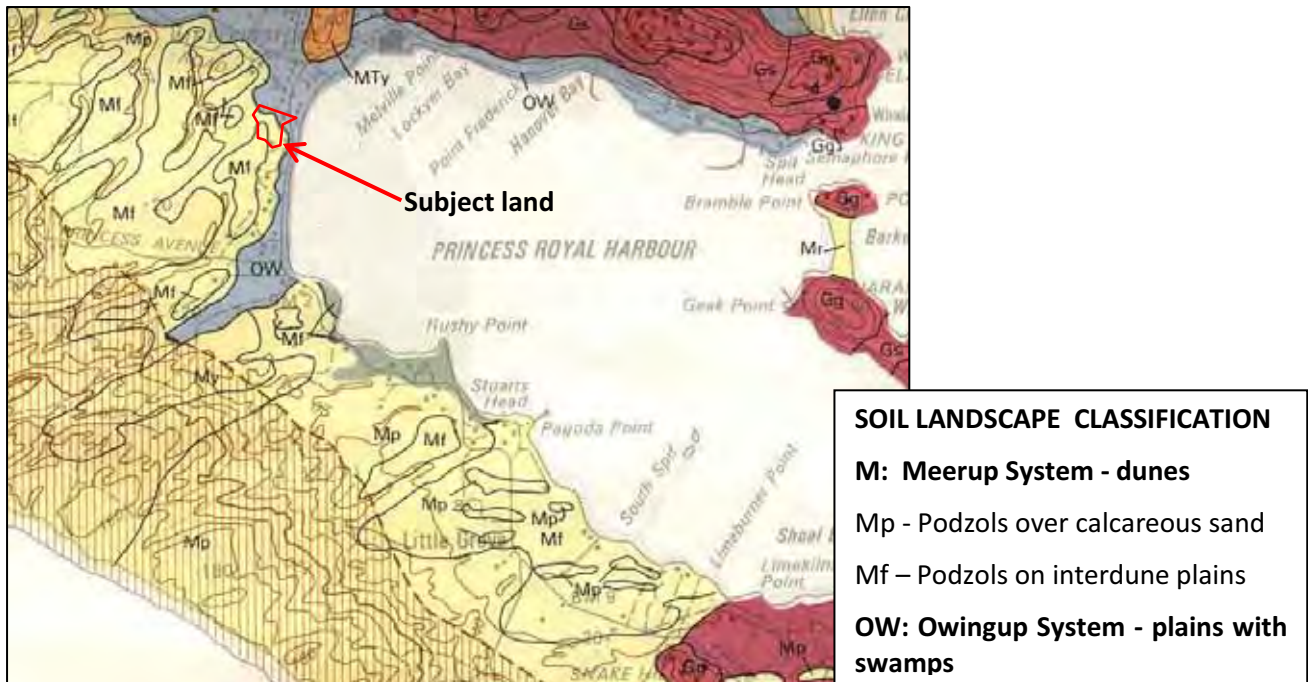


FIGURE 6: BROAD-SCALE SOIL LANDSCAPE MAPPING

Source: Churchward et al 1988).

3.4 Vegetation

As shown in the aerial image within Attachment A, the subject land contains a mixture of cleared and vegetated areas. It occurs inland from the western edge of Princess Royal Harbour although no portion is within 100 m of that waterbody.

The extent and nature of the remaining vegetation within the subject land is also indicated in Figure 7 sourced from the Albany Regional Vegetation Survey, ARVS (Sandiford and Barrett 2010).

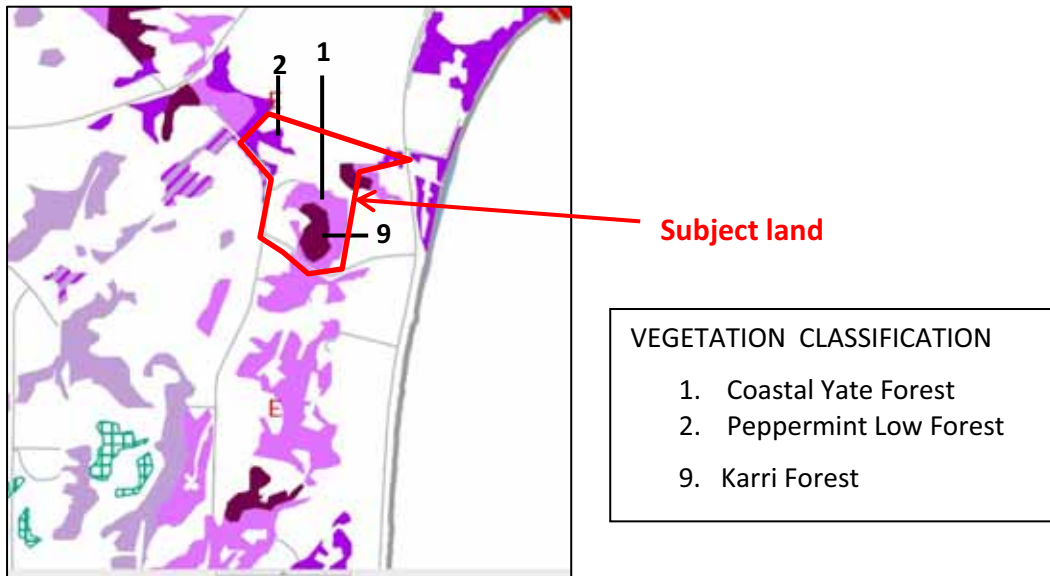
The ARVS mapping is relatively broad-scale and identifies most of the remaining vegetation within lots 84 – 86 as part of vegetation unit 1 (Coastal Yate Forest).

Vegetation unit 9 (Karri Forest) is shown as occurring on lower-lying terrain near the eastern end of Lot 87, and also within the deflation hollow in lots 84 and 85. In the latter area however examination of the aerial image in Attachment A shows that most of the Karri is no longer present.

Vegetation unit 2 (Peppermint Low Forest) is shown within the western portion of lot 98, and to a lesser extent within its central eastern portion.

Attachment B contains descriptions of each of these ARVS vegetation units.

FIGURE 7: VEGETATION MAPPING



Source: Sandiford and Barrett (2010).

Taking into account the known occurrences of these vegetation units (1, 2, and 9) within all types of reserves in the Albany region, only vegetation unit 9 (Karri Forest) might be considered in need of specific conservation measures.

Notwithstanding this, none of the three vegetation units occur at <30% of their pre-clearing extent, and further subdivision of the subject land in accordance with lot size allowed under its zoning category would not directly require any clearing of remnant vegetation to create additional house sites or property access ways.

3.5 Water Resources

Surface water

The subject land occurs inland from the margins of Princess Royal Harbour where the importance of protecting this waterbody from further addition of nutrients is recognised in both the Local Planning Scheme (City of Albany 2014) and the Albany Local Planning Strategy (City of Albany 2010) through the application of a general 100 m development setback.

As shown by the aerial image in Attachment A, all portions of the subject land occur at greater than 100 m from the margins of Princess Royal Harbour, and it contains no natural watercourses. A man-made drain does however run along the northern side of the entrance way into Lot 98 off Frenchman Bay Road. There are also a small number of wetland 'soaks' within Lots 98 and 85 that appear to have been excavated to facilitate earlier agricultural pursuits.

Groundwater

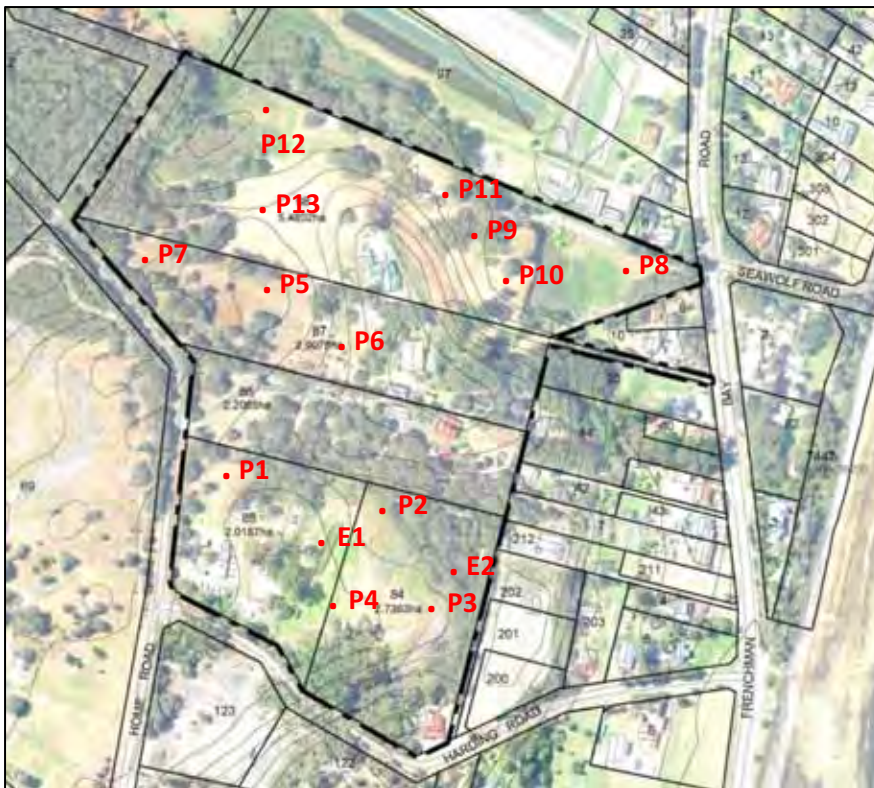
As part of Albany's water supply, groundwater is abstracted from borefields in the South Coast Water Reserve drawing from the Werillup Formation aquifer. The South Coast Water Reserve (Water and Rivers Commission 2001) encompasses most of the subject land which is part of the Priority 3 protection category for land-use planning purposes as discussed earlier in Section 2.3.

4.0 SITE ASSESSMENT

Given the broad scale of soil-landscape mapping depicted in Figure 6, some 'on-ground' variation can be expected in soil and landform conditions. Field observations are therefore required to determine the capability of the land to support unsewered development and the actual presence or otherwise of acid sulfate soil.

Site assessment was undertaken during December 7 – 9. In addition to site traverses and associated photography, the field work involved description and sampling of soils from thirteen machine - excavated pits and two existing exposed cuttings. Figure 8 shows the location of the soil sites over an aerial image.

FIGURE 8: SOIL SITE LOCATIONS



Soil profile descriptions and photographs are contained within Attachment C.

4.1 Land Unit Mapping

Method

Soil and landform conditions within the subject land were surveyed in general accordance with the methodology outlined in Department of Agriculture and Food publications (van Gool et al 2005, Wells and King 1989). This involved examination of aerial photos followed by the field survey work during December.

The soils were classified in accordance with the WA Soil Group nomenclature (Schoknecht 2002) and consideration of the earlier Great Soil Group (Stace et al 1968) classification system used by Churchward et al (1988).

Site positions were recorded using a GPS unit and slope gradients were measured using a hand-held inclinometer correlated with the 2 m interval contour mapping shown on the base plan provided by Ayton Baesjou (refer Attachment A).

Results

A site results summary is provided in Table 1. In combination with aerial photo observations, the soil profile conditions were used to refine and subdivide the broad-scale soil landscape mapping (Meerup Mp & Mf, and Owingup) into eleven component 'land units'.

The resulting more-detailed 'land unit' mapping, shown in Figure 9, depicts areas of more homogeneous landform and soil conditions compared to the earlier soil landscape mapping unit (Figure 6). It therefore provides a more accurate spatial framework on which to assess the capability of the land and the suitability of a subdivision design.

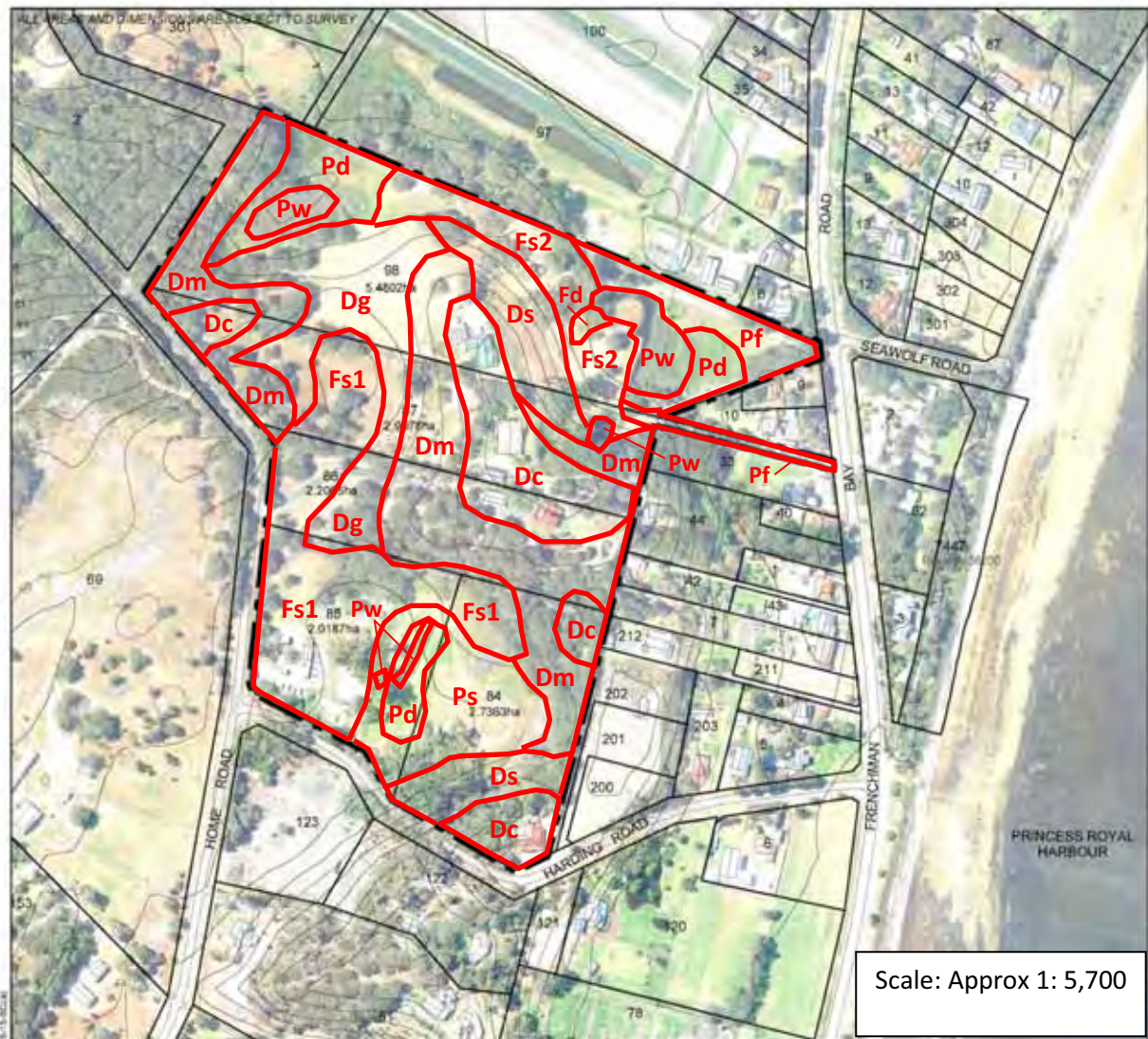
The land units are described in Table 2, and further appreciation of site conditions can be gained by reference to the property photographs which follow Table 2, and by reference to those accompanying the soil pit descriptions in Attachment C.

TABLE 1: SOIL SITE SUMMARY

| Site * | Soil Classification** | Landform |
|---------------|--|---|
| P1 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained, low sandy rise over interdunal flats. |
| P2 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained sandplain at margin of interdunal flats or deflation basin. |
| P3 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Moderately well drained depression within interdunal flat or deflation basin. |
| P4 | <i>Alkaline grey shallow sandy duplex</i> (over calcareous sand). | Imperfectly drained interdunal flat or deflation basin. |
| P5 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained interdunal depression. |
| P6 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Rapidly drained sand dune (moderate sideslope). |
| P7 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Rapidly drained sand dune (gentle upper slope). |
| P8 | <i>Disturbed land</i> (<i>Semi-wet soil</i> – siliceous sand mantled by loamy soil fill material) | Imperfectly drained estuarine plain with fill material. |
| P9 | <i>Semi-wet soil</i> (calcareous organic loam over siliceous sand) | Imperfectly drained depression within sandplain margin or footslope area. |
| P10 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Gently undulating, well drained sandplain margin or footslope area. |
| P11 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Gently undulating, well drained sandplain margin or footslope area. |
| P12 | <i>Alkaline grey deep sandy duplex</i> (over calcareous sand). | Imperfectly drained estuarine plain fringing wetland area. |
| P13 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Gently undulating upland surface of well drained dunes. |
| E1 | <i>Alkaline grey shallow loamy duplex</i> (over calcareous sand). | Imperfectly drained interdunal flat or deflation basin. |
| E2 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Rapidly drained sand dune (moderate sideslope). |

* Refer Figure 8 ** Classification in bold according to DAFWA system (Schoknecht 2002).

FIGURE 9: LAND UNIT MAPPING



Abbreviated Legend – see also Table 2

| Dunes | |
|---|--|
| Dc Crests; pale deep sands. | Dm Moderate slopes; pale deep sands. |
| Ds Steep slopes; pale deep sands. | Dg Gentle slopes; pale deep sands. |
| Footslopes (margins with plain) | |
| Fs1 Sandplain; pale deep sands (siliceous). | Fd Depression; semi-wet organic soil. |
| Fs2 Sandplain; pale deep sands (subsoils calcareous). | |
| Plains (estuarine plain and portions exposed within deflation basin) | |
| Ps Pale deep sands (subsoils calcareous). | Pd Duplex soils with clayey marl / l'stone. |
| Pf Fill; semi-wet soil (loamy fill over sand). | Pw Wetland |

TABLE 2. LAND UNIT DESCRIPTIONS

| Unit | Description |
|---|---|
| <i>Dunes – Higher portions of the parabolic sand dunes of the Meerup system</i> | |
| Dc | Elevated crests with flat to gentle slopes (< 10 % gradient) and well drained pale deep sands. (Podzols - deep leached grey siliceous sand with yellowish brown sandy subsoil which may be calcareous at greater than 2m depth). |
| Ds | Steeply sloping dune areas (> 20 % gradient) with well drained pale deep sands similar to unit Dc. |
| Dm | Moderately sloping dune areas (10 - 20 % gradient) with well drained pale deep sands similar to unit Dc although subsoils may be calcareous at 1 – 2 m depth. |
| Dg | Gently sloping dune areas (3 – 10 % gradient) with well drained pale deep sands similar to unit Dc although subsoils may be calcareous at 1 – 2 m depth. |
| <i>Footslopes - Lower portions of the parabolic dunes and inter-dune sandplain of the Meerup system in proximity to adjacent areas of estuarine / alluvial plain.</i> | |
| Fs1 | Well drained low sandy rises, inter-dune depressions or sandplain with pale deep sands (Podzols - deep grey siliceous sand with yellowish brown sandy subsoil) |
| Fs2 | Gently undulating, well drained sandplain margin or footslope with pale deep sands similar to unit Fs1 although subsoils may be calcareous at 1 – 2 m depth. |
| Fd | Imperfectly drained depression within sandplain margin or footslope with semi-wet soil (calcareous organic loam over siliceous sand). |
| <i>Plains – Flat terrain forming part of the estuarine / alluvial plain (Owingup System) and including portions exposed by deflation hollows within the dunes (Meerup System).</i> | |
| Ps | Moderately well drained inter-dune flat or deflation basin with pale deep sands (Podzols - deep grey siliceous sand over a very weak iron-organic hardpan and calcareous yellowish brown sandy subsoil). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pf | Imperfectly drained area of estuarine plain with semi-wet soil (siliceous sand mantled by loamy soil fill material). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pd | Imperfectly drained area of deflation basin or estuarine plain with duplex soils (alkaline sandy or loamy surfaced duplex soils with clayey marl / limestone rubble subsoil layer over buried calcareous sand). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pw | Wetland depressions and associated poor- very poorly drained wet soils. |



Lot 98 – Dg gently undulating upland dune surface



Lot 97- Moderate slopes Dm and dune depression Fs1



Lot 98 – Peppermint low forest within moderately sloping dunes Dm



Lot 97 – Ds steep dune slope



Lot 98 –Ds leading to sandy footslopes Fs2



Lots 84 & 85 - Ps sandy deflation basin with wetland.



Lot 85 – Remnant area of Karri forest within unit Ps



Lot 98 – Plain unit Pf wetlands Pw and steep dunes Ds



Lot 98 – Wetland Pw within area of plain with duplex soils Pd.

4.2 Land Capability Assessment

'Land capability' is a term referring to the ability of land to support a proposed change in use with minimal risk of degradation to its soil and water resources. In this report, where the subject land is already zoned for rural-residential land use* the capability assessment relates only to the ability of the land to accommodate on-site effluent disposal systems associated with more intensive subdivision of existing lots.

The assessment is expressed in accordance with the DAFWA's five class system (ranging from very high to very low capability) as described by van Gool et al (2005) and Wells and King (1989), and is based on the methodology outlined in those publications. Site requirements relating to soil depth, permeability, and separation from groundwater and surface waterbodies under the *Draft Country Sewerage Policy* (Gov't of Western Australia 1999) and the more recent Department of Health (2001 & 2012) *Code of Practice* documents are also considered.

Figure 10 provides a qualitative assessment of the capability of the subject land based on this approach. Four colour-coded categories are shown as follows;

Green - High capability (land units Dc, Dg, Fs1 and Fs2)

- Very minor land use limitations and suitable for conventional on-site effluent disposal using septic tanks and leach drains.
- Free draining soils that are well elevated above water-table and deeper subsoil likely to have moderate nutrient retention ability (based on iron content and calcareousness) and these areas are generally not close to surface waterbodies.
- Within unit Fs2 consideration needs to be given adequate setback distance from nearby wetland areas.

Yellow - Fair capability (land units Ps, Pf and Dm).

- Dunal areas (unit Dm) are suitable for conventional on-site effluent disposal using septic tanks and leach drains, although gradients require cut and fill activity and areas left devoid of vegetative cover are subject wind erosion risk.
- Areas of the estuarine plain and deflation basin are constrained for on-site effluent disposal due to proximity to the seasonally high watertable but this can be addressed through use of partially inverted leach drains (within imported soil fill material).
- Alternative effluent disposal systems (with lesser minimum depth to water requirement, and greater nutrient retention ability) can also be used. Within the R1 residential zoned portion of the subject land, Alternative Treatment Units are mandatory under the local planning policy (City of Albany - undated) for areas above 2.64 m AHD (such as unit Ps).

* A minor portion of Lot 98 near Frenchman Bay Road is zoned Residential R1.

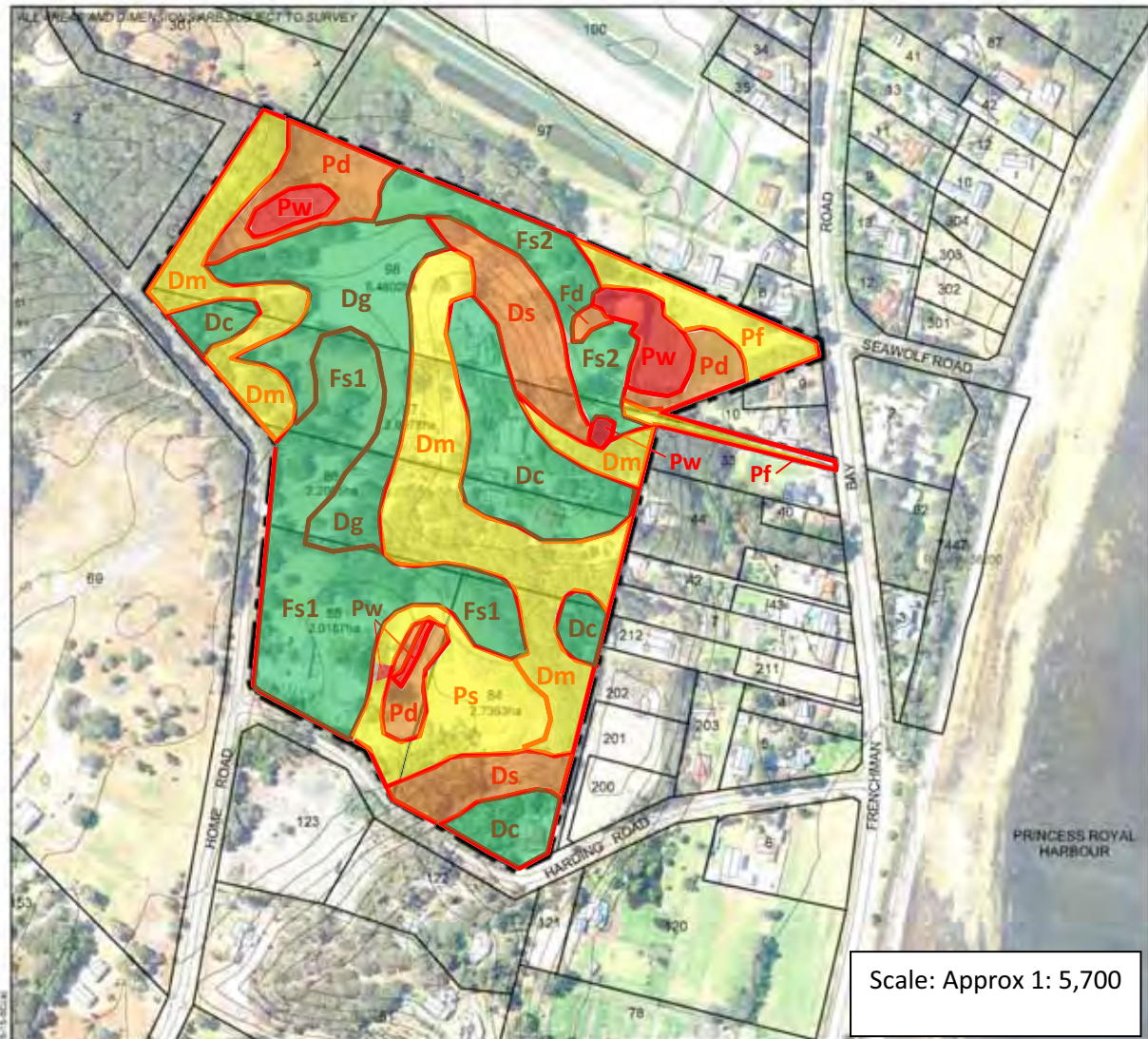
Orange - Low capability (land units Ds, Pd and Fd).

- Significant land use limitations.
- Dunal areas (Ds) are too steep for location of residences and associated on-site effluent disposal systems without significant engineering works, and areas left devoid of vegetative cover are subject to a high risk of slope instability and wind erosion.
- The duplex soil portions of the estuarine plain (Pd), and the organic soils within footslope depression area (Fd), are imperfectly drained and best avoided for on-site effluent disposal. Conventional septic tank systems would need fully inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil within unit Pd.
- Setback requirements from nearby wetland areas also need to be considered for both Pd and Fd units, and their relatively limited extent suggests they would easily, and logically, be avoided when positioning building envelopes.
- If building envelope positioning is not able to be achieved outside of these areas (Pd and Fd), use of alternative treatment units should be mandatory.

Red - Very low capability (land unit Pw)

- Prohibitive land use limitations.
- Unsuitable for any form of on-site effluent disposal given the surface expression of the watertable and likely local conservation values.
- Underlying buried sediments of the estuarine plain potentially include acid sulfate soils which pose a risk to water quality if they are exposed through attempts to lower wetland watertable levels by drainage.
- Wetland areas (including excavated soaks) require a general 50 m minimum setback for conventional septic tank / leach drain systems, however this might be reduced to 30 m if alternative treatment units are used.
- Existing drains (such as the one along the northern side of the access route from Frenchman Bay Road into Lot 98) require a minimum 6 m setback in relation to positioning of any on-site effluent disposal systems within adjacent land units., (assuming that none of the water in such will be used for livestock consumption).

FIGURE 10: LAND CAPABILITY ASSESSMENT



- High capability** – Very minor limitations. Suitable for rural-residential development with conventional septic tanks and leach drains.
- Fair capability** – Moderate limitations associated with risk of wind erosion and need for cut and fill within dunes unit Dm, and need to address proximity to seasonally high groundwater levels within ‘plain’ units where on-site effluent disposal will require partially inverted leach drains (within imported soil fill material) or the use of alternative effluent disposal systems (with lesser minimum depth to water requirement). Unit Pf is within ‘Residential zone R1 where Local Planning Policy mandates the use of alternative effluent disposal systems
- Low capability** – Significant limitations associated with steep slopes and erosion risk within dunes unit Ds, as well as either proximity to groundwater or wetlands, or slow subsoil permeability, within ‘plain’ unit Pd and footslope unit Fd. Generally areas that would be logically avoided for building envelopes.
- Very low capability** – Major limitations in terms of direct impacts of development. Unsuitable for any on-site effluent disposal given watertable exposure, and possible conservation values.

4.3 Testing for Acid Sulfate Soil

Testing of soil pH (1:5 water) for most layers of soil at each of the 13 pit and 2 existing exposure sites is reported within the description in Attachment C and shows predominantly neutral to alkaline soil pH and calcareous subsoil which is not suggestive of acid sulfate soil conditions.

Should the proposed subdivision of the land create additional residences within the estuarine plain portion where watertable proximity is a limiting factor, this can be addressed through partially inverted leach drains (Ps) or mandatory use of alternative treatment systems (as required for unit Pf) rather than any form of additional site drainage.

Notwithstanding this, two subsoil areas were sampled for Acid Sulfate Soil testing by the ChemCentre of WA. (Site 8 within estuarine plain land unit Pf, and site 9 within footslope depression land unit Fd).

The SPOCAS (complete suspension peroxide oxidation combined acidity and sulfur) analysis method was used. This is a standardized set of procedures recommended by the (former) Department of Environment and Conservation for assessing the potential for an acid sulfate soil problem in sandy soils in Western Australia.

The results are contained in Attachments D and E and show the buried soils within unit Pf are within action guideline limits and have high excess acid neutralizing capacity. However the result for the smaller area of highly organic soil within unit Fd is less clear-cut as indicated by the email correspondence copied below;

Copy of Email Communication from Chemistry Centre

*The second sample (P9) was interesting. It appears to have a significant carbon content (black colour and sample tends to float on liquid). The **TPA is very high but is not supported by the sulphide sulphur content (Spos)**. Based on the Spos value a TPA of approximately 950 moles H^+ /tonne would have been expected if all the sulphide was as FeS_2 , a strongly acid producing sulfide. I **strongly suspect the additional acidity is due to the formation of organic acids from the oxidation of carbon/ carbon compounds**.*

*I feel this is supported by the pHox which at 3.4 is certainly acidic, but not as acidic as expected from the TPA value- organic acids tend to have higher pH values than mineral acids such as H_2SO_4 as they do not readily produce hydrogen ions in solution. Non sulfidic acidity can also come from reactions of iron and manganese compounds in solution but there appeared to be very little iron or manganese in this sample. I believe it **unlikely that the non sulfidic acidity of this sample would be realized in practice** as the hydrogen peroxide oxidation used in the method is much more severe than aerial oxidation.*

It appears therefore that although the result for site 9 is not within the actionable guideline, it is considered likely to be the result of the oxidation of the atypically high soil organic matter content rather than an indication of acid sulphate soil conditions.

Notwithstanding the results which indicate Acid Sulfate Soils are not present beneath the subject land, it is relevant to point out that rural-residential development need not involve any form of deep excavation or drainage to expose or aerate previously buried waterlogged subsoils. Any impacts on the limited 'interesting area' of Fd / site 9 can also be easily avoided by appropriate positioning building envelopes.

5.0 CONCLUSIONS

5.1 Capability of the land to support more intensive subdivision

Figure 10 presents the results of land capability assessment for rural-residential development and provides a spatial framework for preparing a plan of subdivision that adequately responds to the nature and capability of the land.

Subject to the proposed pattern of subdivision enabling positioning of building envelopes for all 'new' lots within areas of either high (green) or fair (yellow) capability, the subject land is capable of supporting additional subdivision to the lot sizes permissible for the relevant land use zoning categories under the planning scheme (City of Albany 2014).

Comment in relation to on-site effluent disposal.

For the major portion of the subject land (elevated dunal areas) conventional on-site effluent disposal systems (septic tanks and leach drains) will be appropriate for unsewered rural residential lots.

Should the plan of subdivision result in building envelopes being positioned within lower-lying portions where alternative treatment units are required, setback distances (both vertical and horizontal) are applicable to land application areas for effluent disposal.

Specific setbacks, and the required area for land application of treated effluent, can vary according to the type of system (i.e. a soil absorption system such as leach drains with amended soil, or an irrigation system associated with an aerobic treatment unit, ATU) and according to the method of any irrigation (i.e. surface sprays or drippers, or subsoil drippers).

Attachment F provides a list of alternative treatment systems approved for use in Western Australia. Subject to landowner choice of type of system, installers can determine specific setback requirements (vertical and horizontal) through reference

to the manufacturer's specifications, and the Department of Health's Code of Practice documents (DoH 2001, 2012).

5.2 Potential for further development to be affected by Acid Sulfate Soil

The Albany Local planning Strategy (City of Albany 2010) addresses acid sulphate soils as a land contamination issue and seeks to; *Ensure the suitability of land uses on existing or potential contaminated sites and require hazard reduction mechanisms to prevent harm to human health or the environment.*

A search has been conducted of the State Government's contaminated sites database by planners Ayton Baesjou, who report that there are no records of contaminated sites within the subject land.

Notwithstanding the absence of any need for deep excavation works associated with further subdivision and development of the land for rural-residential use, field survey observations and some laboratory testing of subsoil material within the estuarine plain portion, indicate acid sulfate soils are not present.

An acid sulfate soils self-assessment form is included here as Attachment E should it be considered necessary to refer this report to the Department of Environment Regulation in the context of assessing potential impacts of the proposed subdivision.

5.3 Protection of remnant vegetation

The proposed intensity of further subdivision should not require any significant clearing of the remaining native vegetation within the subject land.

Outside of the parkland cleared areas, where understorey species have been already been depleted, the more intact areas of remaining vegetation occur near the property fringes and are unlikely to be considered prospective sites for building envelopes given the proposed lot sizes.

Subject to site responsive subdivision design, the ALRS objective of protecting areas of remnant vegetation would not be compromised by the development proposal.

5.4 Protection of groundwater

The Local Planning Scheme (City of Albany 2014) takes into consideration the Water Source Protection Plan for the South Coast Water Reserve (Water and Rivers Commission 2001) via designation of a special control area which extends over most of the subject land.

Subject to the plan of subdivision responding to the land capability mapping through appropriate positioning of 'new' building envelopes, and the creation of lots of equal or greater size to those determined by the Water Source Protection Priority Code (P3 – with a possible minimum average of 1 ha), the proposed intensification of rural-residential development in this area should not jeopardize groundwater protection.

6.0 REFERENCES

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ATTACHMENT A

SITE CHARACTERISTICS – BASE PLAN

SITE CHARACTERISTICS

Lots 84, 85 Harding Road &
Lots 86, 87 & 98 Home Road
Robinson, City of Albany



LEGEND

- Subject Land
- Existing Vegetation
- Existing Buildings

N
 ORIG A3
 SCALE 1:3000
 0 15 30 45 60 75

15-15-SC(a)

ATTACHMENT B

ARVS VEGETATION UNIT DESCRIPTIONS

1 Coastal Yate Woodland.

No. of relevés 7 Mean spp. richness 11.7 Area 419 ha % of Rem. Veg. 0.9 % in IUCN Reserve 1-IV 21.4

Description

Coastal Yate Woodland is found along the coastal fringe in protected swales, slopes, crests and flats on grey sand. It is dominated by an upper canopy of *Eucalyptus cornuta* over a sparse secondary tree stratum of *Agonis flexuosa*. There is usually one shrub layer, a tall open scrub or open heath and common dominant shrubs include *Hibbertia furfuracea*, *Bossiaea linophylla* and *Spyridium globulosum*. Ground cover is frequently sparse and there is a high degree of variability in sedge dominance with *Desmocladius flexuosus* most common.

This unit is one of four units that equate to “Scrub heath on dunes” as mapped by Beard (1979), and described as “Peppermint Low Woodland and Scrub-heath”. The other units are Peppermint Low Forest (2), Coastal Heath (3) and Limestone Coastal Heath (4). This unit shares many species with Peppermint Low Forest (2), with which it merges, but differs in the absence of *Adenanthos sericeus* and presence of *Hibbertia furfuracea*. It is usually found in more protected and damper sites. In some areas this unit merges with Karri Forest (9).

Comments

Infestations of **Dipogon lignosus* (Dolichos Pea) and **Zantedeschia aethiopicum* (Arum Lily) were observed within this unit in the Little Grove and Robinson areas. This unit is largely restricted to coastal and near coastal consolidated dunes with occasional occurrences along near coastal drainage lines, though one site near Bornholm was recorded on a hill top. The distribution of dominant understorey species suggest that this unit reaches its eastern limit just east of the survey area (the eastern limit of *Hibbertia furfuracea* and *Hardenbergia comptoniana*) and it probably extends to the west along the coastal fringe of the Warren Botanical District. Direct comparison with units described in the Walpole region by Wardell-Johnson and Williams (1996) is difficult, though it is likely that this unit falls within their community group A4.

This unit is naturally restricted to the coastal fringe. The only other *Eucalyptus cornuta* dominated unit within the survey area, Unit 24, is restricted to granite outcrops.

Floristic Summary

| Lifeform | %cover | Species |
|---------------|--------|---|
| Trees 10-30m | S-M | <i>Eucalyptus cornuta</i> |
| Trees <10m | V | <i>Agonis flexuosa</i> |
| Shrubs >2m | M | <i>Hibbertia furfuracea</i> , <i>Bossiaea linophylla</i> , <i>Spyridium globulosum</i> |
| Shrubs 1-2m | | <i>Leucopogon obovatus</i> , <i>Hibbertia cuneiformis</i> , <i>Pimelea clavata</i> |
| Shrubs <1m | | <i>Tremandra stelligera</i> , <i>Rhagodia baccata</i> |
| Sedges/rushes | Nil -V | <i>Desmocladius flexuosus</i> , <i>Lepidosperma densiflora</i> , <i>Lepidosperma densiflora</i> forma proliferous, <i>Lepidosperma effusum</i> , <i>Lepidosperma effusum</i> forma small, <i>Lepidosperma gladiatum</i> , <i>Ficinia nodosa</i> |
| Herbs | | <i>Billardiera fusiformis</i> , <i>Clematis pubescens</i> , <i>Stylidium adnatum</i> , <i>Opercularia hispidula</i> , <i>Hardenbergia comptoniana</i> |
| Grasses | | <i>Tetrarrhena laevis</i> |

Key identifying Features

- Canopy of *Eucalyptus cornuta* above *Agonis flexuosa* and shrubland dominated by *Hibbertia furfuracea*, *Bossiaea linophylla* and *Spyridium globulosum*.
- Coastal distribution on sand.

Conservation species None recorded

2 Peppermint Low Forest

No. of relevés 10 **Mean spp. richness** 10 **Area** 1232 ha **% of Rem. Veg.** 2.8 **% in IUCN Reserve 1-IV** 23.0

Description

Peppermint Low Forest is restricted to the coastal dune system where it commonly occurs in swales and flats. A dense canopy of *Agonis flexuosa* (Peppermint) is characteristic of this unit with the structure varying from a closed heath on exposed coastal slopes to a low closed forest in swales with shrub species often sub or co-dominant in exposed areas. A tall shrubland of *Spyridium globulosum*, *Adenanthos sericeus*, *Bossiaea linophylla* and *Leucopogon obovatus* is usually present over an open or closed sedgeland with *Rhagodia baccata*, *Hardenbergia comptoniana* and *Clematis pubescens* common.

This unit forms a mosaic with Coastal Heath (3), Limestone Coastal Heath (5), Coastal *Banksia ilicifolia*/Peppermint Low Woodland (4) and Coastal Yate Woodland (1) and appears to be the climax of Coastal Heath (Beard 1979).

Three sub-units are described:

2a Peppermint Low Forest occurs on coastal dunes and swales and is described above.

2b Peppermint/Eucalyptus megacarpa Low Forest occurs along minor drainage lines on lower slopes of the coastal dunes. *Eucalyptus megacarpa* is co-dominant in the upper strata and *Lepidosperma effusum* and *Pteridium esculentum* are common.

2c Peppermint Low Forest/Lepidosperma gladiatum Sedgeland occurs in the swale behind the fore dune and occasionally in deep valleys on the inland dunes. *Lepidosperma gladiatum*, *Desmocladius flexuosus*, *Rhagodia baccata* and *Hardenbergia comptoniana* are prominent understorey species with *Hibbertia cuneiformis* and *Pimelea clavata* common shrubs.

Comments

This unit also includes *Agonis flexuosa* thickets that have invaded other units. In the Little Grove and Big Grove area, *A. flexuosa* is invading what was once *Banksia littoralis*/Woodland *Melaleuca incana* Shrubland (44) as indicated by the dead and dying *Banksia littoralis* and the presence of scattered species indicative of winter wet areas such as *Villarsia parnassiifolia*, *Sphenotoma gracilis* and *Melaleuca incana* under dense canopies of *A. flexuosa*. This invasion suggests that a significant and prolonged lowering of the water table may have occurred. Anecdotal evidence indicates that large areas of Little Grove and Big Grove were more swampy forty to fifty years ago (T. Allen, pers. comm.).

Many infestations of **Acacia longifolia* were observed within this unit, particularly in the Little Grove area. *Agonis flexuosa* occurs as a lower tree stratum or as a co-dominant in a number units (1, 4, 9 and 10) and where this species occurs as stands over pasture, identification of the unit has been based on the nearest intact vegetation.

Peppermint Low Forest is common along the south west coastline though those with *Adenanthos sericeus* in the understorey (2a) are restricted to areas around Albany as this species only occurs from the Nullaki Peninsula to Waychinnicup with an outlying population at Warriup. *Eucalyptus megacarpa* and *Hardenbergia comptoniana* reach their eastern limit near Mt Manypeaks and Cheyne Beach respectively (DEC 2009).

Floristic Summary

| Lifeform | %cover | Species |
|------------------|--------|---|
| Mallee/Tree <8m | M-D | <i>Agonis flexuosa</i> +/- <i>Eucalyptus megacarpa</i> , +/- <i>Hakea oleifolia</i> |
| Shrubs 1m to >2m | S | <i>Spyridium globulosum</i> , <i>Adenanthos sericeus</i> , <i>Bossiaea linophylla</i> , <i>Leucopogon obovatus</i> , <i>Hibbertia cuneiformis</i> |
| Shrubs 0.5-1m | V | <i>Rhagodia baccata</i> |
| Sedges/rushes | V-D | <i>Desmocladius flexuosus</i> , <i>Lepidosperma densiflora</i> forma proliferous, <i>Lepidosperma gladiatum</i> , <i>Lepidosperma effusum</i> |
| Herbs | V | <i>Hardenbergia comptoniana</i> , <i>Clematis pubescens</i> , <i>Opercularia hispidula</i> , <i>Billardiera fusiformis</i> |

Key identifying Features

- Thickets with *Agonis flexuosa* dominant or co-dominant.
- Occurs on sand in coastal areas

Conservation species None recorded

9 Karri Forest

No. of relevés 11 **Mean spp. richness** 10.6 **Area** 885 ha **% of Rem. Veg.** 2.0 **% in IUCN Reserve 1-IV** 1.6

Description

Karri Forest is found in the southern and south western areas of the survey area with isolated pockets along the north-west boundary. It is distinguished by the dominance of *Eucalyptus diversicolor* (Karri) trees in the canopy. Three sub-units are described, differing in floristic composition, landform and soil type and distribution. However, two of these sub-units were poorly sampled and further survey is required to clarify floristic differences.

Sub-units:

9a Coastal Karri Forest is found in a scattered band on the flats and lower slopes north of the coastal hills from Goode Beach to Torbay Townsite, with isolated pockets occurring south of Manypeaks. It often occurs on grey sand often overlying limestone and typically it is an open forest, occasionally reaching > 30 m in height. *Eucalyptus cornuta* is often a sub-dominant canopy species and *Agonis flexuosa* forms an open secondary tree stratum. The understorey shrubs vary from a closed tall scrub on very moist sites to a tall open scrub or open heath over open sedgeland. Common species include *Chorilaena quercifolia*, *Trymalium odoratissimum*, *Thomasia solanacea*, *Hibbertia furfuracea*, *Bossiaea linophylla*, *Tremandra stelligera*, *Lepidosperma effusum*, *Ficinia nodosa*, *Gahnia sclerioides* and *Desmocladius flexuosus*. The climbers *Hardenbergia comptoniana*, *Clematis pubescens* and *Billardiera variifolia* are frequently prominent. This sub-unit often grades into *Eucalyptus cornuta* Open Forest on drier sites.

9b Karri Tall Open Forest

This sub-unit is found on the deep red Karri loams on the hills around Torbay, Bornholm and Torbay townsite. This unit was poorly sampled (1 relevé) and is differentiated from the Coastal Karri sub-unit by the presence and/or dominance of *Allocasuarina decussata* and/or *Acacia pentadenia* in the lower tree/upper shrub strata and the absence of *Thomasia solanacea* and *Templetonia retusa*. This sub-unit occasionally merges with sub-unit 9a on the lower slopes/flats of hills near Bornholm and Torbay townsite where colluvial sands occur. An unsurveyed pocket in the Goode Beach area also appears transitional with subunit 9a with *Acacia pentadenia* present (WA Herbarium records). Other common species include *Agonis flexuosa*, *Hibbertia furfuracea*, *Trymalium odoratissimum* and *Bossiaea linophylla*. This unit often occurs upslope of Marri/Jarra Forest/Peppermint Woodland (10) and appears to have close floristic affinities with Karri forests in the Denmark Walpole/Manjimup area with *Allocasuarina decussata* and *Acacia pentadenia* in the understorey.

9c Redmond Karri Forest

This sub-unit was recorded on the north west boundary of the survey area along a broad valley on skeletal soils overlying a very dark exposed lateritic rock. All areas had been recently burnt (2002) and post fire opportunistic species including *Rulingia corylifolia*, *Acacia pulchella* and *Opercularia hispidula* were dominant beneath a *Bossiaea linophylla* Tall Open Scrub. Other species present were *Leucopogon obovatus*, *Cyathochaeta avenacea*, *Ficinia nodosa*, *Opercularia hispidula*, *Pteridium esculentum*, *Xanthosia candida* and *Tetrarrhena laevis*.

Comments

The Karri forests observed on several previously cleared remnants on the plains south of Manypeaks have regenerated well following fencing and the presence of *Chorilaena quercifolia* and *Templetonia retusa* suggest they belong to sub-unit 9a.

Karri forests are common throughout the Warren Botanical District with the eastern limit occurring on the slopes of Mt Manypeaks just east of the survey area. An outlying population occurs in the Porongurup Range north of the context area. The floristic similarity of Karri forests outside the study area to the sub-units recorded here has not been assessed. The occurrence of sub-unit 9c on skeletal dark lateritic soil may be unusual as Karri forests are typically found on deep loam or sand.

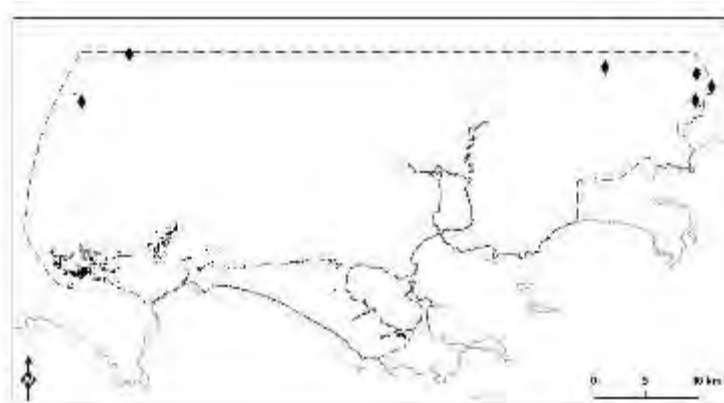
Floristic Summary

| Lifeform | %cover | Species |
|---------------|--------|--|
| Trees 10-30m | M | <i>Eucalyptus diversicolor</i> , <i>Eucalyptus cornuta</i> |
| Trees <10 m | V | <i>Agonis flexuosa</i> , <i>Allocasuarina decussata</i> , <i>Hakea oleifolia</i> |
| Shrubs >2m | S-M | <i>Trymalium odoratissimum</i> , <i>Chorilaena quercifolia</i> , <i>Thomasia solanacea</i> , <i>Hibbertia furfuracea</i> , <i>Bossiaea linophylla</i> , <i>Templetonia retusa</i> , <i>Acacia pentadenia</i> , <i>Rulingia corylifolia</i> |
| Shrubs <2m | V | <i>Acacia alata</i> , <i>Tremandra stelligera</i> |
| Sedges/rushes | V | <i>Lepidosperma effusum</i> , <i>Ficinia nodosa</i> , <i>Desmocladus flexuosus</i> , <i>Lepidosperma squamatum</i> , <i>Lepidosperma densiflora</i> |
| Herbs | V | <i>Opercularia hispidula</i> , <i>Hardenbergia comptoniana</i> , <i>Clematis pubescens</i> , <i>Billardiera variifolia</i> , <i>Lagenophora huegelii</i> , <i>Pteridium esculentum</i> |
| Grasses | | <i>Tetrarrhena laevis</i> , <i>Poa porphyroclados</i> , <i>Microlaena stipoides</i> |

Key identifying Features



- Canopy of *Eucalyptus diversicolor* (Karri).



Conservation species *Thomasia solanacea* P3, *Gahnia sclerioides* P3



Unit 9 Karri Forest

ATTACHMENT C
SOIL PROFILE DESCRIPTIONS AND
PHOTOGRAPHS

| <p>Site Number: Pit 1 Lot 85 50 H 577015 m E; 6122659 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf</p> | <p>Land unit: Fs1</p> | | | | | | | | | | |
|---|---|--|------------|-------------|--------|---|---------|--|----------|--|----------|---|
|  | | <p>Landform: Well drained, low sandy rise (up to 6 % gradient) over interdunal flats.</p> | | | | | | | | | | |
|  | <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> <table border="1"> <thead> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0 – 45</td> <td>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</td> </tr> <tr> <td>45 - 90</td> <td>Dark grey (10YR 4/1) sand, dry; clear boundary to;</td> </tr> <tr> <td>90 - 140</td> <td>Light grey (10YR 7/1) sand, dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to;</td> </tr> <tr> <td>140-180+</td> <td>Dark brown (7.5YR 3/3) fine sand, (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m).</td> </tr> </tbody> </table> | | Depth (cm) | Description | 0 – 45 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | 45 - 90 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | 90 - 140 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | 140-180+ | Dark brown (7.5YR 3/3) fine sand , (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m). |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 – 45 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | | | | | | | | | | | |
| 45 - 90 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | | | | | | | | | | | |
| 90 - 140 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | | | | | | | | | | | |
| 140-180+ | Dark brown (7.5YR 3/3) fine sand , (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m). | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have limited nutrient retention ability but site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

| Site Number: Pit 2 Lot 84 50 H 577130 m E; 6122649 m N | DAFWA Soil landscape mapping: Meerup flats Mf | Land unit: Fs1 | | | | | | | | | | |
|--|--|---|------------|-------------|--------|---|---------|--|---------|--|-----------|--|
|  | | Landform: Well drained sandplain (< 2% gradient) at margin of interdunal flats or deflation basin. | | | | | | | | | | |
|  | | WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol) | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0 - 25</td> <td>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</td> </tr> <tr> <td style="text-align: center;">25 - 50</td> <td>Dark grey (10YR 4/1) sand, dry; clear boundary to;</td> </tr> <tr> <td style="text-align: center;">50 - 95</td> <td>Light grey (10YR 7/1) sand, dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to;</td> </tr> <tr> <td style="text-align: center;">95 – 180+</td> <td>Dark brown (7.5YR 3/3) fine sand, dry.</td> </tr> </tbody> </table> | Depth (cm) | Description | 0 - 25 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | 25 - 50 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | 50 - 95 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | 95 – 180+ | Dark brown (7.5YR 3/3) fine sand , dry. |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 - 25 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | | | | | | | | | | | |
| 25 - 50 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | | | | | | | | | | | |
| 50 - 95 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | | | | | | | | | | | |
| 95 – 180+ | Dark brown (7.5YR 3/3) fine sand , dry. | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 2.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

| | | |
|--|---|-----------------------------|
| <p>Site Number: Pit 3 Lot 84 50 H 577188 m E; 6122562 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Ps</p> |
|--|---|-----------------------------|





Landform: Moderately well drained depression within interdunal flat or deflation basin.





| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth).</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 – 10</p> | <p>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</p> |
| <p>10 – 25</p> | <p>Dark grey (10YR 4/1) sand, dry; clear boundary to;</p> |
| <p>25 – 95</p> | <p>Light grey (10YR 7/1) sand, dry, clear boundary to;</p> |
| <p>95 – 155</p> | <p>Dark brown (7.5YR 3/3) sand, (very weak pan), calcareous, dry, gradual boundary to;</p> |
| <p>155-180+</p> | <p>Dark brown (7.5YR 3/3) sand, calcareous, moist, moderately alkaline (pH 8.0), moderately saline (ECe 474 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: 180 cm.

Comment: Suitable for conventional on-site effluent disposal subject to use of partially inverted leach drains (within imported soil fill material) to achieve adequate separation from groundwater. Also suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).

| <p>Site Number: Pit 4 Lot 85 50 H 577095 m E; 6122557 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Pd</p> | | | | | | | | | | | | |
|--|---|--|------------|-------------|--------|--|---------|---|---------|--|----------|---|----------|--|
|  | | <p>Landform: Imperfectly drained interdunal flat (partly obscured at photo left) or deflation basin.</p> | | | | | | | | | | | | |
|  | <p>WA Soil Group: <i>Alkaline grey shallow sandy duplex</i> - over buried calcareous sand.</p> <table border="1"> <thead> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0 - 25</td> <td>Very dark grey (10YR 3/1) loamy sand, calcareous, slightly moist; clear boundary to;</td> </tr> <tr> <td>25 – 65</td> <td>Light brownish grey (10YR 6/2) Clay loam, sandy, calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to;</td> </tr> <tr> <td>65 - 80</td> <td>Light yellowish brown (10YR 6/4) sand, with few black mottles (cutans), calcareous; slightly moist; gradual boundary to;</td> </tr> <tr> <td>80 - 180</td> <td>Greyish brown (10YR 5/2) sand, calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to;</td> </tr> <tr> <td>180-200+</td> <td>Very dark greyish brown (10YR 3/2) clayey sand, calcareous, moist.</td> </tr> </tbody> </table> | | Depth (cm) | Description | 0 - 25 | Very dark grey (10YR 3/1) loamy sand , calcareous, slightly moist; clear boundary to; | 25 – 65 | Light brownish grey (10YR 6/2) Clay loam, sandy , calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to; | 65 - 80 | Light yellowish brown (10YR 6/4) sand , with few black mottles (cutans), calcareous; slightly moist; gradual boundary to; | 80 - 180 | Greyish brown (10YR 5/2) sand , calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to; | 180-200+ | Very dark greyish brown (10YR 3/2) clayey sand , calcareous, moist. |
| Depth (cm) | Description | | | | | | | | | | | | | |
| 0 - 25 | Very dark grey (10YR 3/1) loamy sand , calcareous, slightly moist; clear boundary to; | | | | | | | | | | | | | |
| 25 – 65 | Light brownish grey (10YR 6/2) Clay loam, sandy , calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to; | | | | | | | | | | | | | |
| 65 - 80 | Light yellowish brown (10YR 6/4) sand , with few black mottles (cutans), calcareous; slightly moist; gradual boundary to; | | | | | | | | | | | | | |
| 80 - 180 | Greyish brown (10YR 5/2) sand , calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to; | | | | | | | | | | | | | |
| 180-200+ | Very dark greyish brown (10YR 3/2) clayey sand , calcareous, moist. | | | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): 0.12 – 0.5 m/d (Imperfectly drained). Depth to water: 190 cm.</p> | | | | | | | | | | | | | | |
| <p>Comment: Best avoided as generally not suitable for conventional on-site effluent disposal due to need for fully inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil near surface and need for setback from soakage dam. Possibly suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).</p> | | | | | | | | | | | | | | |

| Site Number: Pit 5 Lot 87 50 H 577048 m E; 6122828 m N | DAFWA Soil landscape mapping: Meerup flats Mf | Land unit: Fs1 | | | | | | | | | | | | |
|---|---|-----------------------|---|--|------------|-------------|--------|--|----------|---|----------|--|-----------|--|
| <div style="display: flex; justify-content: space-between; align-items: flex-start;">  <div style="width: 45%;"> <p>Landform: Well drained interdunal depression (< 2% gradient).</p> </div> </div> | | | | | | | | | | | | | | |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 5px;">WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</td> </tr> <tr> <th style="width: 15%; padding: 5px;">Depth (cm)</th> <th style="padding: 5px;">Description</th> </tr> <tr> <td style="padding: 5px;">0 – 20</td> <td style="padding: 5px;">Very dark grey (10YR 3/1) loamy sand, dry; strongly acid (pH 5.4), non-saline (ECe 110 mS/m); gradual boundary to;</td> </tr> <tr> <td style="padding: 5px;">20 - 100</td> <td style="padding: 5px;">Grey (10YR 5/1) sand, dry, moderately alkaline (pH 8.6), non-saline (ECe 111 mS/m); clear to;</td> </tr> <tr> <td style="padding: 5px;">100 –135</td> <td style="padding: 5px;">Very dark brown (7.5YR 2.5/2) sand, dry, neutral (pH 7.6), non-saline (ECe 56 mS/m); clear to;</td> </tr> <tr> <td style="padding: 5px;">135– 190+</td> <td style="padding: 5px;">Pale brown (10YR 6/3) sand, with few black mottles (cutans), slightly moist, neutral (pH 7.4), non-saline (ECe 87 mS/m).</td> </tr> </table> | | WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol) | | Depth (cm) | Description | 0 – 20 | Very dark grey (10YR 3/1) loamy sand , dry; strongly acid (pH 5.4), non-saline (ECe 110 mS/m); gradual boundary to; | 20 - 100 | Grey (10YR 5/1) sand , dry, moderately alkaline (pH 8.6), non-saline (ECe 111 mS/m); clear to; | 100 –135 | Very dark brown (7.5YR 2.5/2) sand , dry, neutral (pH 7.6), non-saline (ECe 56 mS/m); clear to; | 135– 190+ | Pale brown (10YR 6/3) sand , with few black mottles (cutans), slightly moist, neutral (pH 7.4), non-saline (ECe 87 mS/m). |
| WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol) | | | | | | | | | | | | | | |
| Depth (cm) | Description | | | | | | | | | | | | | |
| 0 – 20 | Very dark grey (10YR 3/1) loamy sand , dry; strongly acid (pH 5.4), non-saline (ECe 110 mS/m); gradual boundary to; | | | | | | | | | | | | | |
| 20 - 100 | Grey (10YR 5/1) sand , dry, moderately alkaline (pH 8.6), non-saline (ECe 111 mS/m); clear to; | | | | | | | | | | | | | |
| 100 –135 | Very dark brown (7.5YR 2.5/2) sand , dry, neutral (pH 7.6), non-saline (ECe 56 mS/m); clear to; | | | | | | | | | | | | | |
| 135– 190+ | Pale brown (10YR 6/3) sand , with few black mottles (cutans), slightly moist, neutral (pH 7.4), non-saline (ECe 87 mS/m). | | | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered here but > 3.0 m based on observation in adjacent excavated area.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | | | |

| | | |
|---|--|----------------------|
| Site Number: Pit 6 Lot 87 50 H 577101 m E; 6122786 m N | DAFWA Soil landscape mapping: Meerup dunes Mp | Land unit: Dm |
|---|--|----------------------|



Landform: Rapidly drained sand dune (moderate sideslope, 14 % gradient). Note Steeper bank is edge of excavated terrace



| WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth). | |
|---|---|
| Depth (cm) | Description |
| 0 – 20 | Dark grey (10YR 4/1) sand , dry; clear boundary to; |
| 20 - 70 | Light grey (10YR 7/2) sand , dry, clear boundary to; |
| 70 – 120 | Yellowish brown (10YR 5/6) sand , dry; moderately alkaline (pH 8.0), non saline (ECe 51 mS/m.); diffuse boundary to; |
| 120 - 185 | Yellowish brown (10YR 5/6) sand , with few bleached mottles, dry; gradual boundary to; |
| 185–220+ | Very pale brown (10YR 7/4) sand , calcareous, strongly alkaline (pH 9.2), non saline (ECe 99 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).

Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|---|--|----------------------|
| Site Number: Pit 7 Lot 87 50 H 576958 m E; 6122855m N | DAFWA Soil landscape mapping: Meerup dunes Mp | Land unit: Dc |
|---|--|----------------------|



Landform: Rapidly drained sand dune (gentle upper slope, 7 % gradient).





WA Soil Group: *Pale deep sand* (Deep siliceous podzol)

| Depth (cm) | Description |
|------------|---|
| 0 - 40 | Dark grey (10YR 4/1) sand , dry, gradual boundary to; |
| 40 – 110 | Grey (10YR 5/1) sand , dry, moderately acid (pH 5.6), non-saline (ECe 56 mS/m); gradual boundary to; |
| 110 - 165 | Light grey (10YR 7/1) sand , dry; clear boundary to; |
| 165–210+ | Dark yellowish brown (10YR 4/4) sand , mottled, dry, slightly acid (pH 6.5), non-saline (ECe 48 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| <p>Site Number: Pit 8 Lot 98 50 H 577352 m E; 6122837 m N</p> | <p>DAFWA Soil landscape mapping: Owingup flats OW</p> | <p>Land unit: Pf</p> | | | | | | | | | | |
|--|---|--|------------|-------------|--------|---|----------|---|----------|--|-----------|---|
|  | | <p>Landform: Imperfectly drained estuarine plain (< 2% gradient) with fill material.</p> | | | | | | | | | | |
|  | <p>WA Soil Group: Disturbed land / Semi-wet soil (Loamy fill material over siliceous sand)</p> <table border="1"> <thead> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0 – 60</td> <td>Brown (10YR 4/3/) loamy sand, with few ferruginous gravels, (fill material) dry, neutral (pH 7.2), non-saline (ECe 57 mS/m); clear boundary to;</td> </tr> <tr> <td>60 - 105</td> <td>Very dark greyish brown (10YR 3/2) clay loam fine sandy, (fill material) calcareous, dry, moderately alkaline (pH 8.4), non-saline (ECe 142 mS/m); clear boundary to;</td> </tr> <tr> <td>105 -150</td> <td>Dark grey (10YR 4/1) sand, (former land surface?) dry, moderately alkaline (pH 8.5), non-saline (ECe 132 mS/m); clear boundary to;</td> </tr> <tr> <td>150 -170+</td> <td>Grey (10YR 5/1) clayey sand, moist.</td> </tr> </tbody> </table> | | Depth (cm) | Description | 0 – 60 | Brown (10YR 4/3/) loamy sand , with few ferruginous gravels, (fill material) dry, neutral (pH 7.2), non-saline (ECe 57 mS/m); clear boundary to; | 60 - 105 | Very dark greyish brown (10YR 3/2) clay loam fine sandy , (fill material) calcareous, dry, moderately alkaline (pH 8.4), non-saline (ECe 142 mS/m); clear boundary to; | 105 -150 | Dark grey (10YR 4/1) sand , (former land surface?) dry, moderately alkaline (pH 8.5), non-saline (ECe 132 mS/m); clear boundary to; | 150 -170+ | Grey (10YR 5/1) clayey sand , moist. |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 – 60 | Brown (10YR 4/3/) loamy sand , with few ferruginous gravels, (fill material) dry, neutral (pH 7.2), non-saline (ECe 57 mS/m); clear boundary to; | | | | | | | | | | | |
| 60 - 105 | Very dark greyish brown (10YR 3/2) clay loam fine sandy , (fill material) calcareous, dry, moderately alkaline (pH 8.4), non-saline (ECe 142 mS/m); clear boundary to; | | | | | | | | | | | |
| 105 -150 | Dark grey (10YR 4/1) sand , (former land surface?) dry, moderately alkaline (pH 8.5), non-saline (ECe 132 mS/m); clear boundary to; | | | | | | | | | | | |
| 150 -170+ | Grey (10YR 5/1) clayey sand , moist. | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): 0.12 – 0.5 m/d (Imperfectly drained). Depth to water: 170 cm. Estimated depth of fill: 105 cm.</p> <p>Comment: Fill material brings site above 2.64m AHD but not suitable for conventional on-site effluent disposal using septic tanks and leach drains due to policy requirements (City of Albany - Frenchman Bay Road Residential Development Area - undated local planning policy). Suitable for effluent disposal using Alternative Treatment Units subject to 6 m setback from drain on north side of property access way.</p> | | | | | | | | | | | | |

| | | |
|--|---|-----------------------------|
| <p>Site Number: Pit 9 Lot 98 50 H 577221 m E; 6122844 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW</p> | <p>Land unit: Fd</p> |
|--|---|-----------------------------|



Landform: Imperfectly drained depression within sandplain margin or footslope area.



| <p>WA Soil Group: <i>Semi-wet soil</i> (calcareous organic loam over siliceous sand)</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 – 20</p> | <p>Black (10YR 2/1) loamy sand, dry; gradual boundary to;</p> |
| <p>20 - 80</p> | <p>Black (10YR 2/1) loam fine sandy calcareous, slightly moist, moderately alkaline (pH 8.6), moderately saline (ECe 699 mS/m); gradual boundary to;</p> |
| <p>80 – 140</p> | <p>Black (10YR 2/1) clayey fine sand, slightly moist; clear boundary to;</p> |
| <p>140 - 210</p> | <p>Black (10YR 2/1) loamy fine sand, moist (with some seepage inflow).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): 1.5 - 3.0 m/d (Moderately well drained). **Depth to water:** 210 cm (although gradual seepage inflow above).

Comment: Limited area, best avoided and generally not suitable for on-site effluent disposal systems.

| | | |
|---|---|------------------------------|
| <p>Site Number: Pit 10 Lot 98 50 H 577248 m E; 6122827 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW</p> | <p>Land unit: Fs2</p> |
|---|---|------------------------------|



Landform: Gently undulating, well drained sandplain margin or footslope area.



| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth).</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 - 35</p> | <p>Dark grey (10YR 4/1) sand, dry, gradual boundary to;</p> |
| <p>35 - 80</p> | <p>Grey (10YR 5/1) sand, dry, neutral (pH 7.6), non-saline (ECe 57 mS/m); gradual boundary to;</p> |
| <p>80 - 85</p> | <p>Dark brown (10YR 3/3) loamy sand, dry; weak hardpan, neutral (pH 7.7), slightly-saline (ECe 228 mS/m); clear boundary to;</p> |
| <p>85 - 100</p> | <p>Very dark brown (7.5YR 2.5/2) loamy sand (with limestone / marl rubble); dry, clear to;</p> |
| <p>100-180+</p> | <p>Pale brown (10YR 6/3) sand, calcareous, dry, moderately alkaline (pH 9.0), non-saline (ECe 144 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: Not encountered, likely to be > 3.0 m based on topography and geomorphology.

Comment: Limited area, but suitable for conventional on-site effluent disposal using septic tanks and leach drains subject to adequate setback distance from nearby soakage dam.

| | | |
|---|--|-----------------------|
| Site Number: Pit 11 Lot 98 50 H 577190 m E; 6122929 m N | DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW | Land unit: Fs2 |
|---|--|-----------------------|



Landform: Gently undulating, well drained sandplain margin or footslope area. (site on cleared area beyond access road)



WA Soil Group: *Pale deep sand*
(Podzol; calcareous at depth).

| Depth (cm) | Description |
|------------|--|
| 0 - 35 | Dark grey (10YR 4/1) sand , dry, slightly acid (pH 6.0), non-saline (ECe 69 mS/m); clear boundary to; |
| 35 - 60 | Grey (10YR 5/1) sand , clear boundary to; |
| 60 – 90 | Light yellowish brown (10YR 6/4) sand , dry, gradual boundary to; |
| 90 - 130 | Yellowish brown (10YR 5/4) sand , calcareous, dry, neutral (pH 6.9), non-saline (ECe 35 mS/m); gradual to; |
| 130-180+ | Very pale brown (10YR 7/4) sand , calcareous, dry, moderately alkaline (pH 9.0), non-saline (ECe 119 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).

Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|---|--|-----------------------------|
| <p>Site Number: Pit 12 Lot 98 50 H 577052 m E; 6122975 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup over Owingup flats OW</p> | <p>Land unit: Pd</p> |
|---|--|-----------------------------|





Landform: Imperfectly drained estuarine plain (< 1% gradient) fringing wetland area (at far left).



| <p>WA Soil Group: <i>Alkaline grey deep sandy duplex</i> - over buried calcareous sand.</p> | |
|--|---|
| <p>Depth(c m)</p> | <p>Description</p> |
| <p>0 – 20</p> | <p>Very dark grey (10YR 3/1) sand, dry, gradual boundary to;</p> |
| <p>20 - 50</p> | <p>Dark grey (10YR 4/1) sand, dry, neutral (pH 6.7), non-saline (ECe 74 mS/m); clear boundary to;</p> |
| <p>50 – 60</p> | <p>Very dark brown (10YR2/2) sand, (weak hardpan); dry, clear boundary to;</p> |
| <p>60 - 80</p> | <p>Light brownish grey (10YR 6/2) Clay loam, sandy, calcareous with limestone / marl rubble, slightly moist; clear boundary to;</p> |
| <p>80 –150+</p> | <p>Pale brown (10YR 6/3) sand, calcareous, moist, with few black mottles (cutans), moderately alkaline (pH 8.2), slightly-saline (ECe 338 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): partly within rapidly drained sand (> 3.0 m/d) and imperfectly drained clay loam (0.12 – 0.5 m/d). **Depth to water:** 150 cm (although gradual seepage inflow above).

Comment: Best avoided as generally not suitable for conventional on-site effluent disposal due to need for partially inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil and need for setback from nearby wetland.

| <p>Site Number: Pit 13 Lot 98 50 H 577055 m E; 6122889 m N</p> | <p>DAFWA Soil landscape mapping: Meerup dunes Mp</p> | <p>Land unit: Dg</p> | | | | | | | | | | | | | | |
|--|--|--|--|--|------------|-------------|--------|--|---------|--|----------|---|----------|--|----------|---|
|  | | <p>Landform: Gently undulating upland surface of well drained dunes (4 – 5 % gradient).</p> | | | | | | | | | | | | | | |
|  | <table border="1"> <tr> <td colspan="2"> <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> </td> </tr> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> <tr> <td>0 – 20</td> <td>Dark grey (10YR 4/1) sand, dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to;</td> </tr> <tr> <td>20 – 85</td> <td>Grey (10YR 5/1) sand, dry, clear to;</td> </tr> <tr> <td>85 - 105</td> <td>Light grey (10YR 7/2) sand, dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to;</td> </tr> <tr> <td>105 –125</td> <td>Pale brown (10YR 6/3) sand, dry, clear to;</td> </tr> <tr> <td>125-150+</td> <td>Strong brown (7.5YR 4/6) sand, with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m).</td> </tr> </table> | | <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> | | Depth (cm) | Description | 0 – 20 | Dark grey (10YR 4/1) sand , dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to; | 20 – 85 | Grey (10YR 5/1) sand , dry, clear to; | 85 - 105 | Light grey (10YR 7/2) sand , dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to; | 105 –125 | Pale brown (10YR 6/3) sand , dry, clear to; | 125-150+ | Strong brown (7.5YR 4/6) sand , with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m). |
| <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> | | | | | | | | | | | | | | | | |
| Depth (cm) | Description | | | | | | | | | | | | | | | |
| 0 – 20 | Dark grey (10YR 4/1) sand , dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to; | | | | | | | | | | | | | | | |
| 20 – 85 | Grey (10YR 5/1) sand , dry, clear to; | | | | | | | | | | | | | | | |
| 85 - 105 | Light grey (10YR 7/2) sand , dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to; | | | | | | | | | | | | | | | |
| 105 –125 | Pale brown (10YR 6/3) sand , dry, clear to; | | | | | | | | | | | | | | | |
| 125-150+ | Strong brown (7.5YR 4/6) sand , with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m). | | | | | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | | | | | |

| | | |
|---|---|--|
| <p>Site Number: Exposure 1 Lot 85 50 H 577095 m E; 6122598 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Pd/Pw</p> |
|---|---|--|





Landform: Interdunal flat or deflation basin; Imperfectly drained (0 -1% gradient) and adjacent wetland (excavated soak).



| <p>WA Soil Group: <i>Alkaline grey shallow loamy duplex</i> (over buried calcareous sand).</p> | |
|---|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 - 15</p> | <p>Very dark grey (10YR 3/1) clayey sand, calcareous; dry, gradual boundary to;</p> |
| <p>15 - 30</p> | <p>Very dark brown (10YR 2/2) sandy loam; dry, clear boundary to;</p> |
| <p>30 - 55</p> | <p>Limestone / marl, in clay loam matrix; dry, clear boundary to;</p> |
| <p>55 - 90</p> | <p>Very pale brown (10YR 7/3) sandy clay loam, with calcareous rubble; dry, gradual boundary to;</p> |
| <p>90 – 120+</p> | <p>Pale brown (10YR 6/3) sand, calcareous; slightly moist.</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): 0.5 – 1.5 m/d (Moderately well drained). **Depth to water:** 130 cm.

Comment: Possibly suitable for conventional on-site effluent disposal (apart from need for setback from soakage dam) using partially inverted leach drains within imported soil fill material to achieve adequate separation from groundwater. Possible also suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).

| <p>Site Number: Exposure 2 Lot 84 50 H 577193 m E; 6122600 m N</p> | <p>DAFWA Soil landscape mapping: Meerup dunes Mp</p> | <p>Land unit: Dm.</p> | | | | | | | | | | |
|---|---|--|---|--|-------------------|--------------------|--------|--|----------|---|----------|---|
|  | | <p>Landform: Rapidly drained sand dune (moderate sideslope, 18 % gradient).</p> | | | | | | | | | | |
|  | <table border="1"> <tr> <td colspan="2"> <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> </td> </tr> <tr> <th> Depth (cm) </th> <th> Description </th> </tr> <tr> <td> 0 - 50 </td> <td> Greyish brown (10YR 5/2) sand, dry, clear boundary to; </td> </tr> <tr> <td> 50 - 120 </td> <td> Light yellowish brown (10YR 6/4) sand, slightly calcareous; dry, gradual boundary to; </td> </tr> <tr> <td> 120–190+ </td> <td> Yellowish brown (10YR 5/4) sand,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) </td> </tr> </table> | | <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> | | Depth (cm) | Description | 0 - 50 | Greyish brown (10YR 5/2) sand , dry, clear boundary to; | 50 - 120 | Light yellowish brown (10YR 6/4) sand , slightly calcareous; dry, gradual boundary to; | 120–190+ | Yellowish brown (10YR 5/4) sand ,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) |
| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> | | | | | | | | | | | | |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 - 50 | Greyish brown (10YR 5/2) sand , dry, clear boundary to; | | | | | | | | | | | |
| 50 - 120 | Light yellowish brown (10YR 6/4) sand , slightly calcareous; dry, gradual boundary to; | | | | | | | | | | | |
| 120–190+ | Yellowish brown (10YR 5/4) sand ,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have limited nutrient retention ability but site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

ATTACHMENT D

ACID SULFATE TEST RESULTS



REPORT ITEM DIS 115 REFERS
ChemCentre
Inorganic Chemistry Section
Report of Examination



Purchase Order: 1512
Your Reference:
ChemCentre Reference: 15S1434 R1

Land Assessment Pty Ltd
PO Box 117
Subiaco WA 6008

PO Box 1250, Bentley Delivery Centre
Bentley WA 6983
T +61 8 9422 9800
F +61 8 9422 9801
www.chemcentre.wa.gov.au
ABN 40 991 885 705

Attention: Martin Wells

Final Report on 2 samples of soil received on 21/12/2015

LAB ID **Client ID and Description**

15S1434 / 001 P8/4
15S1434 / 002 P9/4

| Analyte | | ANCe | pH _{KCl} | pH _{ox} | Sk _{Cl} | Sp | S _{pos} |
|---------|--|-------------------------|-------------------|------------------|------------------|---------|------------------|
| Method | | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS |
| Unit | | moles H ⁺ /t | | | % | % | % |

Lab ID **Client ID**

| | | | | | | | |
|-------------|------|------|-----|-----|-------|------|------|
| 15S1434/001 | P8/4 | 3.0 | 7.2 | 4.1 | <0.01 | 0.02 | 0.02 |
| 15S1434/002 | P9/4 | <1.0 | 6.7 | 3.4 | 0.06 | 1.56 | 1.50 |

| Analyte | | Stones | TAA | TPA |
|---------|--|--------|-------------------------|-------------------------|
| Method | | (>2mm) | iSPOCAS | iSPOCAS |
| Unit | | % | moles H ⁺ /t | moles H ⁺ /t |

Lab ID **Client ID**

| | | | | |
|-------------|------|------|------|------|
| 15S1434/001 | P8/4 | 0.7 | <1.0 | <1.0 |
| 15S1434/002 | P9/4 | 33.7 | <1.0 | 3200 |

| Analyte | Method | Description |
|-------------------|---------|---|
| Stones | (>2mm) | Stones - sieved particles greater than 2 mm (sample preparation method manual 3.3.2) |
| TAA | iSPOCAS | Titrateable Actual Acidity Method 23F |
| TPA | iSPOCAS | Titrateable Peroxide Acidity |
| ANCe | iSPOCAS | Excess Acid Neutralisation Capacity (AS4969.3) |
| pH _{KCl} | iSPOCAS | pH in a KCl soil extract (1:40 w/v) |
| pH _{ox} | iSPOCAS | pH in a soil suspension after 30% H ₂ O ₂ digest |
| S _{KCl} | iSPOCAS | Sulfur soluble in 1M KCl after TAA titration |
| S _p | iSPOCAS | Sulfur soluble in 1M KCl after 30% H ₂ O ₂ digest and TPA titration |
| S _{pos} | iSPOCAS | Sulfur oxidise by peroxide digest, calculated as S _P minus S _{KCl} |

The results apply only to samples as received. This report may only be reproduced in full.

Unless otherwise advised, the samples in this job will be disposed of after a holding period of 30 days from the report date shown below.

Results for soil analysis are reported on an air-dry (40C) less than 2 mm basis, whereby stones are removed (material >2mm) by sieving.

When stone content is deemed significant the result is recorded and reported.

Unless otherwise specified, all analytes (except Stones) are reported in the listed concentrations and on a dry, less than 2 mm basis.

Stones are reported on a dry, whole sample basis.



Barry Price
Team Leader
Scientific Services Division
8-Jan-2016

ATTACHMENT E
ACID SULFATE SOILS: SELF-ASSESSMENT FORM



Acid Sulfate Soils Self-Assessment Form



Applicant

The applicant is the person with whom the WAPC will correspond and, if the application is approved, the person to whom the approval will be sent.

WAPC reference no

Full name

Postal address

Town / suburb
Postcode

Email
Phone number

Applicant signature
Date

Application property details

Step 1

Assess the possibility of acid sulfate soils disturbance

- Question 1:** Are any dewatering or drainage works (either temporary or permanent) proposed to be undertaken? yes no
- Question 2:** Is excavation of 100 cubic metres or more of soil proposed? yes no
(In lay person's terms 100 cubic metres is about 10 standard-sized dump truck loads.)

If no to both question 1 and question 2 then no further investigation is required at this stage. Please sign this form and submit it, together with a completed 'Clearance of Conditions Request' form along with supporting documentation, to Department of Environment Regulation (DER).

If yes to either question 1 or question 2 go on to step 2.

Step 2

Conduct an acid sulfate soils investigation in accordance with DER's *Identification and Investigation of Acid Sulfate Soils* guideline

- Question 3:** Did the acid sulfate soils investigation indicate that there are acid sulfate soils present? yes no

If no to question 3, then no further investigation is required at this stage. Please sign this form and submit it, together with the written results of the investigation (in the form of an acid sulfate soils report) and a completed 'Clearance of Conditions Request' form and required information, to DER with a request for clearance of the acid sulfate soils condition.

If yes to question 3, please sign this form and submit it, together with the written results of the investigation (in the form of an acid sulfate soils report), an acid sulfate soils management plan and a copy of the approved subdivision plan, to DER with a request for approval of the management plan.

Note: After completion of site works in accordance with the approved management plan you will be required to submit a closure report, prepared in accordance with DER's acid sulfate soils guideline series, to DER together with a request for clearance of the acid sulfate soils condition.

Tick box for attachments as appropriate

- Clearance of conditions request form
- Copy of approved subdivision plan
- Copy of approved development plan
- Acid Sulfate Soils investigation report
- Acid Sulfate Soils management plan

- Addressed as part of land capability report

Declaration

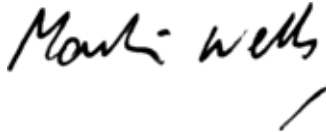
I declare that the information provided is true and correct to the best of my knowledge.

A completed 'Clearance of Conditions Request' form and required information is attached to this form (a copy can be downloaded from <http://www.der.wa.gov.au/your-environment/acid-sulfate-soils/68-ass-forms>)

Applicant signature: _____ Date: _____

Submit form to the
Department of Environment Regulation (DER)
Locked Bag 33
Cloisters Square, Perth WA 6850

If you have any questions relating to the Acid Sulfate Soils Self-Assessment form, please contact Acid Sulfate Soils Section (DER) on 1300 762 982 for assistance or email contaminated_sites@der.wa.gov.au.



Land Assessment Pty Ltd

11/ 1 /16

ATTACHMENT F
ALTERNATIVE TREATMENT SYSTEMS
APPROVED FOR USE IN WA

Approved Aerobic Treatment Units

What are Aerobic Treatment Units (ATUs)?

Aerobic Treatment Units (ATUs) are small ('package') wastewater treatment plants. Due to the treatment and disinfection process, the treated wastewater from several systems may be used for garden irrigation. Some ATUs are also approved for Phosphorus removal. The listed systems have standard approval as domestic models (they may also be used in commercial situations). They are to be installed and operated in accordance with the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 and the **Code of Practice for the Design, Manufacture, Installation and Operation of Aerobic Treatment Units (ATUs) Serving Single Dwellings**.

As the conditions of approval can vary between designs, persons interested in installing a particular ATU should confirm it meets their needs and discuss site requirements with the local government.

ATUs have regular service requirements (usually quarterly) and maintenance must be through an **Authorised person** or their staff/subcontractors.

More detailed information on ATUs is contained in the **Aerobic Treatment Units** pamphlet and the **Code of Practice**.



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|---|--|--|--|--|
| <p>Allied Pumps 2 Modal Crescent CANNING VALE WA 6155 Ph: 9350 1000 / 1800 447 777 Fax: 9356 5255 Website: www.aquanova.com.au Email: sms@alliedpumps.com.au</p> | <p>Everhard Aqua-Nova 2000 Model 80100</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or sub-strata or above ground spray irrigation.</p> | <p>Global Certification PL No. 077 27/03/2017</p> |
| <p>Aquarius Wastewater Management Pty Ltd Unit 1/20 Abrams Street BALCATTWA WA 6021 Ph: 9240 8545 Fax: 9240 8542 Website: www.aquariuswastewater.com.au Email: admin@aquariuswastewater.com.au</p> | <p>Aquarius O-3</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients to the following concentrations: TP (% removal): <1 mg/L (98.5%) TN (% removal): <10 mg/L (97.8%)</p> | <p>SMKH21519 25/03/2018</p> |
| | <p>Aquarius O-2</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved only for below ground disposal via sub-surface irrigation, leach drains, soak wells or AquaSafe Drains. The system does not include Alum Sulphate dosing and disinfection system. The system does not remove nutrients.</p> | |
| | <p>Aquarius O-2 NR</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved only for below ground disposal via sub-surface irrigation, leach drains, soak wells or AquaSafe Drains. The system does not include disinfection system. Capable of removing nutrients to the following concentrations: TP (% removal): <1 mg/L (98.5%) TN (% removal): <10 mg/L (97.8%)</p> | |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|---|---|---|--|---|
| Biomax Pty Ltd PO Box 462 MIDLAND DC WA 6936 Ph: 9250 7733 Fax: 9250 5844 Website: www.biomax.com.au Email: biomax@inet.net.au | BioMax P10-M (phosphorus removal) BioMax C-10 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| BioSeptic Pty Ltd Concrete Products WA Ph: 9274 6988 Fax: 9274 6939 Website: www.bioseptic.com.au Email: sales@bioseptic.com.au | Performa 2000 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMK02221 18/10/2015 |
| BioSystems 2000 Pty Ltd 3 Carlow Circle WATERFORD WA 6152 Ph: 9450 2570 Fax: 9450 1635 Email: biosystems2000@yahoo.com.au | Biosystem 2000 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| Earthsafe Environmental Pty Ltd PO Box 605 WYONG NSW 2259 Ph: 1300 327 847 Email: steven@rivatec.com.au | Earthsage Environmental ES10PC | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMKH20612 27/08/2016 |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|----------------------|---|--|---|
| <p>Fuji Clean Australia Pty Ltd 5/520 Mulgrave Road Earlville, Cairns QLD 4870 Website: www.fujiclean.com.au</p> <p><u>WA Distributor</u> Ecowater WA 37 Granite Place YANCHEP WA 6035 Ph: 0417 098 281 Email: ecowaterwa@bigpond.com</p> | CE1200 | Single dwelling units up to 8 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| | CE1500EX | Single dwelling units up to 10 person capacity or 1500L/day | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMKH21993 09/05/2016 |
| | | | Capable of removing nutrients to the following concentrations: TP (% removal): 1.3 mg/L (84%) TN (% removal): 21.0 mg/L (58%) | |
| | CRX1500 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| | | | Capable of removing nutrients to the following concentrations: TP (% removal): 0.24 mg/L (97%) TN (% removal): 8.29 mg/L (82%) | |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|------------------------------|--|---|--|
| <p>Galvin Concrete & Sheetmetal Pty Ltd Ph: 9302 2175 Website: www.galvins.com.au Email: csm@galvins.com.au</p> <p><u>WA Distributor</u> Clearwater Domestic Sewerage 52 Railway Parade WELSHPOOL WA 6106 Ph: 9258 6933 Fax: 9258 6944 Email: naiquip@iinet.net.au</p> | <p>Clearwater 90 Compact</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for above ground spray irrigation.</p> | <p>No AS1546.3 certification 30/06/2015</p> |
| <p>Icon-Septech Pty Ltd Lot 265 Valencia Way MADDINGTON WA 6109 Ph: (08) 9493 2352 or 1300 557 143 Fax: (08) 9493 2548 Website: www.icon-septech.com.au</p> | <p>Septech Turbojet 2000</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or above ground spray irrigation.</p> | <p>SMK0239 13/11/2015</p> |
| <p>Jowa Group Pty Ltd 8 Lander Avenue SHEIDOW PARK SA 5158 Ph: (08) 8381 9100 Fax: (08) 8381 9116 Website: www.biocyclejowagroup.com.au Email: sales@biocyclejowagroup.com.au</p> | <p>Biocycle 5800</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or above ground spray irrigation.</p> | <p>No AS1546.3 certification 30/06/2015</p> |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|---|---|--|---|
| Krystal Kleer Pty Ltd 59 Commerce Circuit Yatala QLD 4207 Ph: (07) 3382 7666 Website: www.qualitytanks.com.au Email: Nicole@qualitytanks.com.au | Krystal Kleer ADV5000 (Concrete and plastic models) | Single dwelling units up to 10 person capacity. | Approved for sub-surface or above ground spray irrigation. | Cert No. 125 13/09/2014 |
| Suncoast Waste Water Management 59 Industrial Avenue KUNDA PARK QLD 4556 Ph: 1800 450 767 Website: www.ozzikleen.com Email: info@ozzikleen.com | Ozzi Kleen RP10 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or above ground spray irrigation. | SMK02608 14/08/2016 |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|---|---|--|---|
| Taylex Industries Pty Ltd 56 Prairie Road Ormeau QLD 4208 Ph: (07) 3441 5200 Fax: (07) 3287 4199 Email: Taylex@bigpond.com.au | Taylex DMS (Domestic Membrane System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. Capable of removing nutrients to the following concentrations: TP (% removal): 0.29 mg/L (96%) TN (% removal): 6.19 mg/L (86%) | No AS1546.3 certification 30/06/2015 |
| | Taylex ABS (Advanced Blower System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. | |
| | Taylex Poly ABS (Advanced Blower System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. | |



Assessed and not approved OR Approval withdrawn

| Manufacturer / Supplier | Brand name and model | Reason not approved / Further information |
|--|-----------------------|---|
| Biolytix Technologies PO Box 591 MALENY QLD 4552 Ph: (07) 5435 2700 Fax: (07) 5435 2701 Website: www.biolytix.com Email: info@biolytix.com | Biolytix BF-6 Aerated | Company liquidated. Biolytix units which have been issued a 'Permit to Use' by local government before 19 January 2011 can still be in use. For further information, visit the following webpage: www.lawlerpartners.com.au/creditor_reports/biolytix_group_of_companies/faqs |
| Water Gurus Pty Ltd 3/57 Inspiration Drive WANGARA WA 6065 Ph: 9302 6444 or 1800 043 956 Fax: 9302 6777 Website: www.watergurus.com.au | Novaclear | Company liquidated. For further information, visit the following webpage: http://www.asic.gov.au/ |

More information:

Water Unit

Environmental Health Directorate
 Department of Health
 PO Box 8172
 PERTH BUSINESS CENTRE WA 6849

Telephone: 08 9388 4999

Facsimile: 08 9388 4910

This document is available in alternative formats on request for a person with a disability.



Approved Alternative Leach Drains

These phosphorus reducing systems have a conventional septic tank and leaching field (leach drain) arrangement. The leaching field is contained within an approved amended soil which binds phosphates from the effluent.

| Manufacture / Supplier | Brand Name and Model | Comments and Restrictions | Approval Date |
|--|---|---|---------------|
| Filtrex Innovative Wastewater Solutions PO Box 5122 BUNBURY WA 6231 Ph: (08) 9726 0118 Fax: (08) 9726 0117 Website: www.filtrex.com.au Email: info@filtrex.com.au | Filtrex Split System | <ul style="list-style-type: none"> ■ Leach drains (for blackwater) and subsurface irrigation (for greywater) only. ■ Minimum 600mm soil absorption from any ground or pooled waters at the wettest time of year | 01/02/08 |
| | Filtrex Phosphate and Nutrient Wastewater Irrigation System | <ul style="list-style-type: none"> ■ Leach drains disposal only. ■ Minimum 600mm soil absorption from any ground or pooled waters at the wettest time of year | 31/05/11 |
| | Filtrex Leach Drain Cage | <ul style="list-style-type: none"> ■ Has an infiltrative area of 0.9m² per metre length ■ Non-phosphorus retentive. ■ Install in accordance to Department of Health approval conditions | 29/10/2008 |
| | Filtrex Standard Leach Drain Cage SLD MK2 | <ul style="list-style-type: none"> ■ Has an infiltrative area of 1.5m² per metre length ■ Non-phosphorus retentive. ■ Install in accordance to Department of Health approval conditions | 27/10/2009 |



More information

Water Unit
Environmental Health Directorate
Department of Health
PO Box 8172
PERTH BUSINESS CENTRE WA 6849
Telephone: (08) 9388 4999
Fax: (08) 9388 4910

Produced by Environmental Health Directorate
© Department of Health, Western Australia 2012



Appendix B

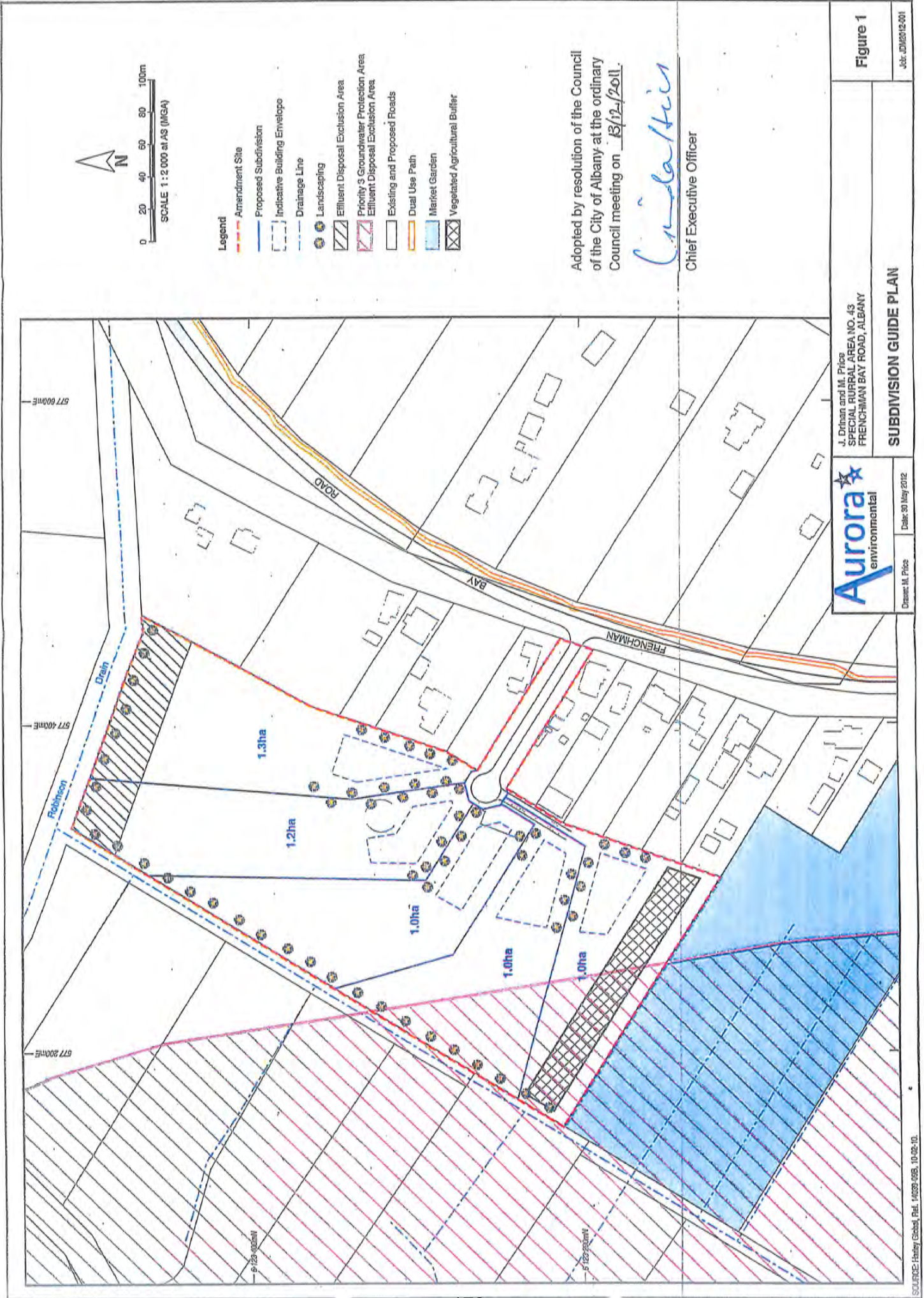
Existing Provisions & Subdivision Guide Plan

Local Planning Scheme No. 1

Rural Residential Area No. 43

| No. | Specified Rural Residential Zone | Special Provisions Applying to Specified Rural Residential Zone |
|------|--------------------------------------|--|
| | | <p>the local government both prior to commencement of subdivision works and following completion of subdivision works. The report to provide adequate information proving that the land is suitable to accommodate future dwellings.</p> |
| RR42 | Little Grove Rural Residential zone | <ol style="list-style-type: none"> 1. The minimum lot size shall be two hectares. 2. The following land uses are 'P' permitted uses— <ul style="list-style-type: none"> • Single House. 3. The following land uses are 'D' discretionary uses— <ul style="list-style-type: none"> • Ancillary Accommodation; • Bed and Breakfast/Farmstay; • Home Business; • Home Occupation; • Industry—Cottage; • Public Utility; and • Rural Pursuit (which shall be limited to existing cleared and pastured land only). 4. All buildings and structures shall be— <ol style="list-style-type: none"> (a) Located off any ridgeline as shown on the Subdivision Guide Plan as determined by the Local Government; (b) Located to retain the maximum amount of remnant vegetation on the site; and (c) Setback a minimum of 15 metres from any lot boundary. |
| RR43 | Lot 114 Frenchman Bay Road, Robinson | <p>Plan of Subdivision</p> <ol style="list-style-type: none"> 1. Subdivision shall be generally in accordance with the adopted Subdivision Guide Plan <i>RR43</i>, as endorsed by the CEO. 2. The Western Australian Planning Commission may allow an alternative plan of subdivision, should it be satisfied that the plan of subdivision is consistent with the objectives and outcomes of the zone and Subdivision Guide Plan. 3. The Local Government will not generally recommend lots sizes less than one hectare. <p>Land Use</p> <ol style="list-style-type: none"> 4. Within Special Rural Zone Area No. 43 the following uses are permitted— <ul style="list-style-type: none"> • Single House 5. The following uses may be permitted subject to the special approval of the Local Government ('A')— <ul style="list-style-type: none"> • Home Occupation (cottage industry); • Public Utility; • Bed and Breakfast/Farmstay; • Holiday Accommodation; • Stables; • Home Office; • Home Business; and • Other non-defined or incidental activities considered appropriate by the Local Government which are consistent with the objectives of the zone. <p>Location of Buildings and Structures</p> <ol style="list-style-type: none"> 6. Any building on a lot must be constructed within a Building Envelope. Such Building Envelopes shall not exceed 2000m². Indicative building envelopes are shown on the subdivision guide plan. 7. Notwithstanding the requirement the Local Government may permit an alternative Building |

| No. | Specified Rural Residential Zone | Special Provisions Applying to Specified Rural Residential Zone |
|------|---|---|
| | | <p>Envelope location if it is shown to the satisfaction of the Local Government that—</p> <ul style="list-style-type: none"> (a) The proposed location of the building envelope can achieve the setbacks established at 8; (b) All effluent disposal systems remain outside of the effluent disposal exclusion areas; and (c) That the necessary clearance to the ground water table can be achieved to support a suitable effluent disposal system. <p>8. All buildings are to be setback a minimum of 10 metres from all lot boundaries.</p> <p>Water Supply</p> <p>9. All dwellings shall be required to provide a rainwater tank of not less than 50,000 litres capacity to harvest rainwater for household and garden use.</p> <p>Effluent Disposal</p> <ul style="list-style-type: none"> 10. The Local Government shall require the use of amended soil type effluent disposal systems, such as EcoMax/ATU Systems. 11. Effluent disposal systems are to be located outside of the effluent disposal exclusion areas marked on the Subdivision Guide Plan. 12. No more than one effluent disposal system will be permitted on one lot. <p>Access</p> <ul style="list-style-type: none"> 13. Battleaxe legs are to be a minimum of 5 metres. Where access legs are to be co-located, their combined width may be reduced by 7.5 metres. 14. All driveways and underground infrastructure shall be designed and constructed so as to avoid erosion impacts and prevent unnecessary discharge of storm water. <p>Water Management</p> <p>15. The wastewater, stormwater and effluent disposal solutions documented in the <i>Local Water Management Strategy and Urban Water Management Plan Lot 114 (No. 142) Frenchman Bay Road, Robinson, City of Albany (April 2011)</i> shall form the basis for the detailed water management strategies.</p> <p>Finished Floor Levels</p> <p>16. All buildings must achieve a minimum finished floor level of 2.64 metres AHD.</p> <p>Notification of Prospective Owners</p> <p>17. The Local Government may require the subdivider to make arrangements satisfactory to the Local Government to ensure prospective purchasers are advised of the potential for nuisance impacts of odour, noise, dust and spray drift from the market garden located within 300 metres of the proposed development.</p> <p>Agricultural Buffer</p> <ul style="list-style-type: none"> 18. A vegetated agricultural buffer is to be provided to the minimum width of 20 metres, plus a 10 metre setback for access from the south south-east boundary of the subject lot where the market garden adjoins, together with any required additional land for access for maintenance and firebreaks. 19. In relation to the 20 metre vegetated agricultural buffer to the existing market garden, species used in the closest 10 metre portion of the buffer shall not be capable of growing taller than 3 metres to prevent the incidence of overshadowing. |
| RR44 | Torbay Hill, Kronkup Rural Residential zone | <p>1. Subdivision of RR44 shall generally be in accordance with the Subdivision Guide Plan <i>RR44</i> endorsed by the CEO, with any minor</p> |



0 20 40 60 80 100m
SCALE 1:2,000 at AS (MGA)

- Legend**
- Amendment Site
 - Proposed Subdivision
 - Indicative Building Envelope
 - Drainage Line
 - Landscaping
 - Effluent Disposal Exclusion Area
 - Priority 3 Groundwater Protection Area
 - Effluent Disposal Exclusion Area
 - Existing and Proposed Roads
 - Dual Use Path
 - Market Garden
 - Vegetated Agricultural Buffer

Adopted by resolution of the Council
of the City of Albany at the ordinary
Council meeting on 13/12/2011.

Crabtree

Chief Executive Officer

J. Driscoll and M. Price
SPECIAL RURAL AREA NO. 43
FRENCHMAN BAY ROAD, ALBANY



Date: 30 July 2012

Drawn: M. Price

SUBDIVISION GUIDE PLAN

Figure 1

Job: 1018012-001

Appendix C

Fire Assessment

RR 43 Home & Harding Road Precinct

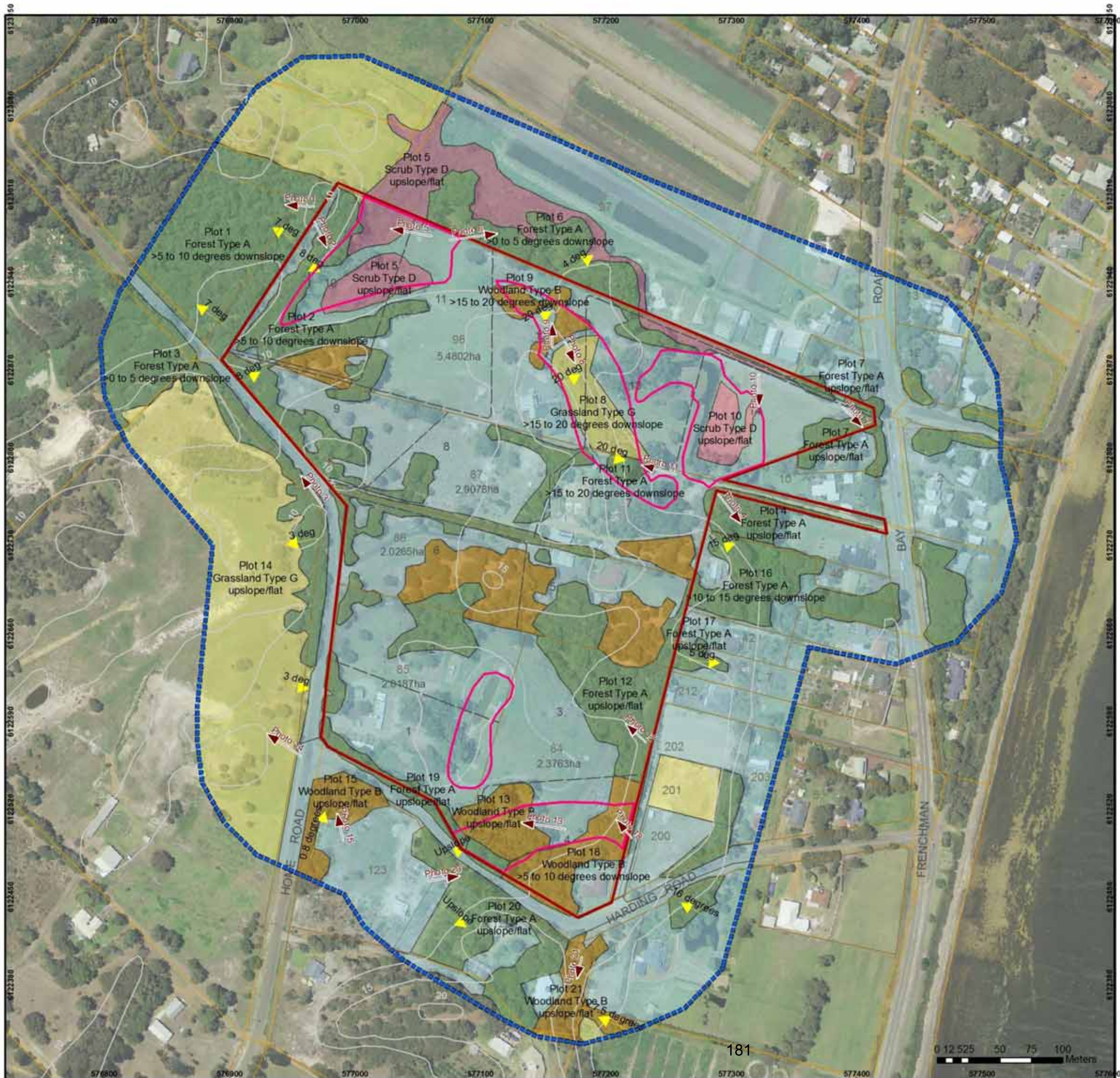
Biodiverse Solutions Pty Ltd

AS 3959 Bushfire Attack Level (BAL) Contour Plan Report

| Site Details | | | |
|---------------------------------------|--|---------------|------|
| Address: | Lots 84,85,87,98 Home and Harding Road | | |
| Suburb: | Robinson | State: | W.A. |
| Local Government Area: | City of Albany | | |
| Description of Building Works: | Building development | | |
| Stage of WAPC Planning | WAPC Application | | |

| Report Details | | | |
|-----------------------------|---|------------------------|-------------|
| Report / Job Number: | AB007 | Report Version: | Final Ver 2 |
| Assessment Date: | 1 st & 8 th November 2016 | Report Date: | 20/2/2017 |





Legend

- Photo ID
- Subject Site
- 100m Assessment Boundary
- Cadastrate
- 5m Contours
- Slope Degrees

Vegetation

- Forest Type A
- Woodland Type B
- Shrubland Type C
- Scrub Type D
- Grassland Type G
- Low fuel or non vegetated 2.2.3.2
- Development Exclusion Area

Scale
 1:3,000 @ A3
 GDA MGA 94 Zone 50

Data Sources
 Aerial Imagery: SLIP Virtual Mosaic WMS Service, Landgate 2016
 Cadastrate and Contours: Landgate 2016
 Overview Map: World Topographic map service, ESRI 2012


CLIENT
 Ayton Baesjou
 Lots 84, 85, 87, 98 Home and Harding Road
 Albany, WA 6330


| Vegetation Classes Map | | |
|------------------------|-------|------------|
| STATUS | FILE | DATE |
| FINAL | AB007 | 16/12/2016 |





SECTION 1 - Vegetation Classification


All vegetation within 100m of the site / proposed development was classified in accordance with Table 2.3 of AS 3959-2009. Each distinguishable vegetation plot with the potential to determine the Bushfire Attack Level is identified below and shown on the Vegetation Classes Map page 2.


| Plot | 1 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Down slope-effective slope 7 degrees.</p> | |
| <p>Photo 1-Photo ID 1-Looking north east from northern boundary. Boundary located on ridge running from east to west.</p> | | | |

| Plot | 2 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope/downslope (straddles ridgline)-effective slope 8 degrees. Internal to site-APZ management can be applied.</p> | |
| <p>Photo 2-Photo ID 2 –Photo looking south east from plot 1.</p> | | | |

| Plot | 3 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---|
| | |  | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Downslope-effective slope 3 degrees. External to site. Separation 10 metres.</p> |
| <p>Photo 3-Photo ID 3- View looking north along Home Road. Road cuts through original ridge line.</p> | | | |

| Plot | 4 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|--|
| | |  | <p>Closed Warren River Cedar Forest and Peppermint forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Flat land. 0m separation to site.</p> |
| <p>Photo 4-Photo ID 4-View to the south east. Steep slopes are located further south.</p> | | | |

| Plot | 5 | Classification or Exclusion Clause | Scrub Type D |
|--|---|--|--------------|
|  | | <p>Pampas Grass to 3 metres in height growing on peat swamp. Potential Fuel Loading 25t/ha at maturity. >30% vegetative cover. Flat land. Internal and external to the site and contained within development exclusion area. Internal to site-APZ management can be applied.</p> | |
| <p>Photo 5-Photo ID 5-View west towards plots 1 and 2. Heavy Pampas grass infestation.</p> | | | |

| Plot | 6 | Classification or Exclusion Clause | Forest Type A |
|--|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Downslope-effective slope 4 degrees.</p> | |
| <p>Photo 6-Photo ID 6-View to the north east. Heavy infestation of Arum Lilly and Dolichos</p> | | | |


| Plot | 7 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p><i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Located external and external to site. Flat ground. Internal to site-APZ management can be applied.</p> | |

Photo 7-Photo ID 7-Looking south towards adjoining property. Heavy pasture invasion in understory.




| Plot | 8 | Classification or Exclusion Clause | Grassland Type G |
|---|---|---|------------------|
|  | | <p>Located with development exclusion area. Potential fuel load 3-4.5 t/ha. Down slope-effective slope 20 degrees to the east Internal to site. Mowing and slashing to meet APZ requirement. Internal to site-APZ management can be applied.</p> | |

Photo 8-Photo ID 8-View to the south from driveway-height of grasses exceeds 300mm. Patchy understory regeneration displays frequency of current management.

| Plot | 9 | Classification or Exclusion Clause | Woodland Type B |
|---|---|---|-----------------|
|  | | <p>Peppermint woodland average height 9-10 metres with 10-30% foliage cover. Understory cleared-replaced by mixed unmanaged pasture-grasses 100-300mm. Not multi layered. Effective slope 20 degrees. Potential fuel loading 15-25 t/ha. Internal to site and located within development exclusion area. APZ management standards can be applied.</p> | |
| <p>Photo 9-Photo ID 9-Looking north towards plot 6</p> | | | |

| Plot | 10 | Classification or Exclusion Clause | Scrub Type D |
|---|----|--|--------------|
|  | | <p>Located to the east-internal to subject site. Pampas grass infestation adjoining water hole. Currently grazed by goats. If grazing were discontinued the site would return to a state similar to plot 5. Potential fuel load 3-4.5 t/ha. Flat ground. Internal to site-APZ management can be applied.</p> | |
| <p>Photo 10-Photo ID 10-View to the south east. Goats can just be seen in background.</p> | | | |


| Plot | 11 | Classification or Exclusion Clause | Forest Type A |
|------|---|------------------------------------|--|
| |  | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Downslope-effective slope 20 degrees. Internal to site, within development exclusion area. APZ management can be applied.</p> |

Photo 11-Photo ID 11-View to the west. Plot 8 located top right of photo.




| Plot | 12 | Classification or Exclusion Clause | Forest Type A |
|------|---|------------------------------------|---|
| |  | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Effective Slope – Upslope. Internal to site, within development exclusion area. APZ management can be applied.</p> |

Photo 12-Photo ID 12 View of forest Type A from the east (LHS of Phot)

| Plot | 13 | Classification or Exclusion Clause | Woodland Type B |
|--|----|--|-----------------|
|  | | <p>Karri woodland average height 15 metres with 10-30% foliage cover. Some over storey dying. Understorey cleared-replaced by mixed unmanaged pasture-grasses 100-300mm. Not multi layered. Effective slope flat ground. Potential fuel loading 15-25 t/ha. Internal to site. APZ management standards can be applied.</p> | |
| <p>Photo 13-Photo ID 13-View to the west adjacent to Lot 12. Heavy weed infestation present.</p> | | | |

| Plot | 14 | Classification or Exclusion Clause | Grassland Type G |
|--|----|--|------------------|
|  | | <p>Located western boundary-external to subject site. Currently grazed. Potential fuel load 3-4.5 t/ha. Effective slope - Upslope. Separation 11 metres.</p> | |
| <p>Photo 14-Photo ID 14-view to the north west from home Road.</p> | | | |



| Plot | 15 | Classification or Exclusion Clause | Woodland Type B |
|---|----|------------------------------------|--|
|  | | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm. Not multi layered. Upslope-effective slope 0.8 degrees. External to site</p> |

Photo 15-Photo ID 15 View of Woodland Type B in private property to the south

| Plot | 16 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|--|
| <p><i>Photo not available, private property</i></p> | | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Down slope-Effective slope 15 degrees. External to site.</p> |

| Plot | 17 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|--|
| <p><i>Photo not available, private property</i></p> | | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope-effective slope 5 degrees. External to site.</p> |
| | | | |

| Plot | 18 | Classification or Exclusion Clause | Woodland Type B |
|---|----|------------------------------------|--|
|  | | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm.Scattered remnant natives Not multi layered. Down slope-effective slope 10 degrees to existing house. Upslope to lot internal areas. Internal to site-APZ management can be applied.</p> |
| | | | <p>Photo 18-Photo ID 18-View of Woodland Type B north of existing house</p> |


| Plot | 19 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|---|
|  | | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Flat Ground. Internal and external to site. Internal to site-APZ management can be applied.</p> |

Photo 19-Photo ID 19-Looking west to Home Road of Plot 19 (RHS of photo)



| Plot | 20 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|---|
|  | | | <p><i>Agonis flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope. External to site,</p> |

Photo 20-Photo ID 20-View to the south west from the north east of Plot 20.

| Plot | 21 | Classification or Exclusion Clause | Woodland Type B |
|--|----|------------------------------------|---|
|  | | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm. Scattered remnant natives. Not multi layered. Upslope. External to site to the south east.</p> |
| <p>Photo 21-Photo ID 21 view of Woodland Type B to the south east of the subject site. View from the north to the south along Plot 21 in private property.</p> | | | |

SECTION 3: Potential Bushfire Impacts

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below and shown on the BAL Contour Page 16.

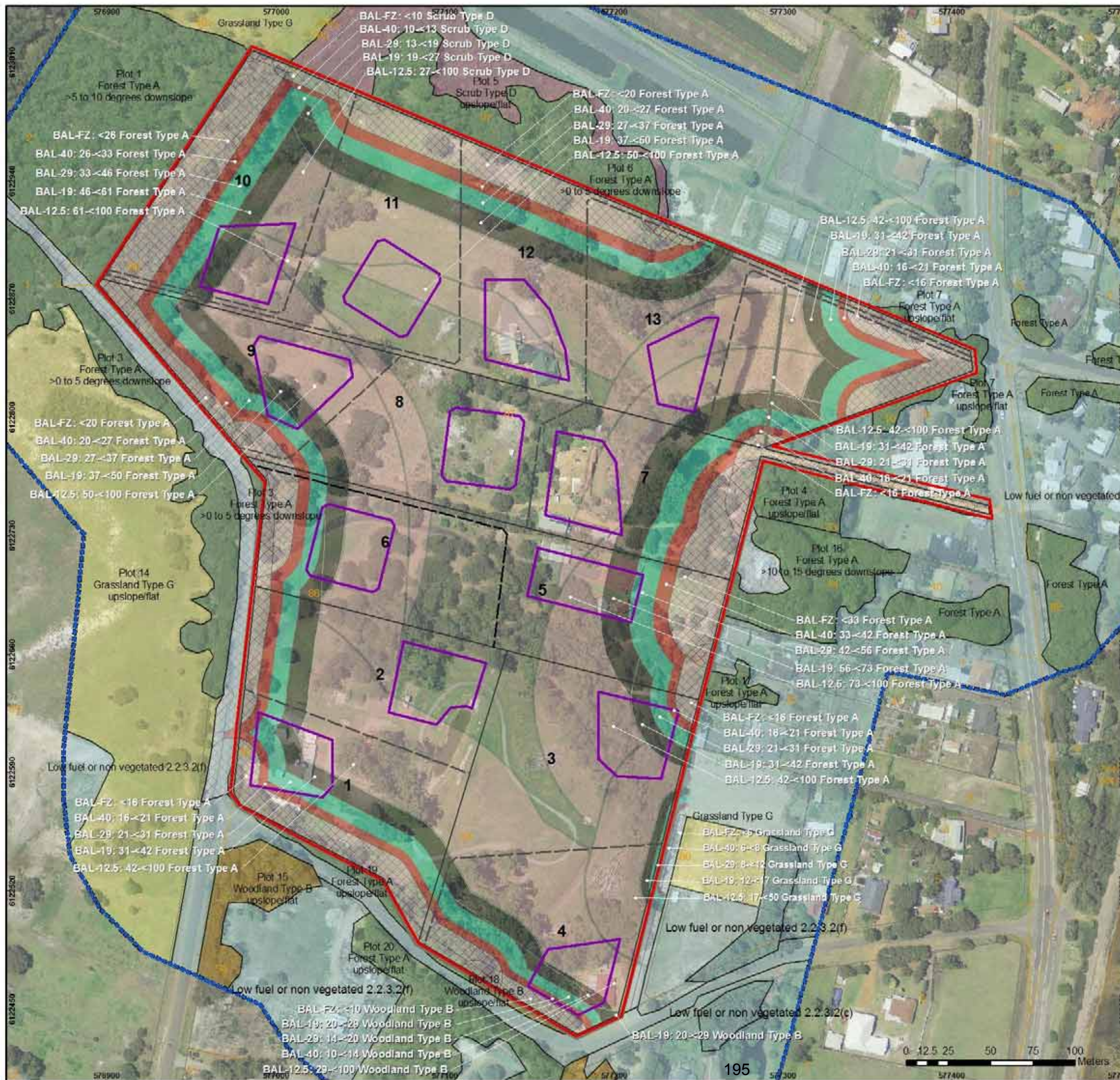
| BE on lot | Vegetation Classification | Effective Slope | Separation (m) to lot | BAL |
|-----------|--|--|-----------------------|--|
| 1 | Forest Type A (Plot 19) Woodland Type B (Plot 15) Forest Type A (Plot 3) | Flat Land Flat Land Downslope>0 to 5 deg | 0m 20m 10m | BAL 12.5 to existing house N/A overridden by Plot19 BAL 12.5 to existing house |
| 2 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 12.5 to BAL Low on BE |
| 3 | Forest Type A (Plot 17) Grassland Type G | Upslope Upslope | 0m 10m | BAL 29 to BAL 12.5 BAL 12.5 |
| 4 | Woodland Type B (Plot 18) | Upslope | 0m | BAL19 and BAL 12.5 can apply to existing house |
| 5 | Forest Type A (Plot 17) Forest Type A (Plot 16) | Upslope Downslope>10 to 15 deg | 0m 0m | N/A overridden by Plot 16 BAL 29 to BAL 12.5 can apply |
| 6 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 29 and 12.5 on BE |
| 7 | Forest Type A (Plot 16) Forest Type A (Plot 4) | Downslope>10 to 15 deg Flat Land | 0m 0m | BAL 12.5 to BAL-Low can apply BAL 12.5 to BAL-Low can apply |
| 8 | N/A | N/A | >100m | BAL – Low can apply |
| 9 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 29 to BAL 12.5 can apply |
| 10 | Forest Type A (Plot 1) | Down slope>5 to 10 degrees | 0 m | BAL 12.5, BAL 19 and BAL 29 can apply to BE |
| 11 | Forest Type A (Plot 6) | Downslope>0 to 5 deg | 0m | BAL 12.5 and BAL Low to BE |
| 12 | Forest Type A (Plot 6) | Down slope>0 to 5 deg | 0m | BAL 12.5 and BAL Low to BE |
| 13 | Forest Type A (Plot 6) Forest Type A (Plot 4) | Down slope>0 to 5 degrees Flat Land | 0m 0m | BAL 12.5 and BAL Low to existing house in BE BAL 12.5 to BE |
| 14 | Forest Type A (Plot 7) | Flat Land | 0m | BAL 12.5 to 29 can apply |

COMMENTS ON BAL CALCULATIONS:

- Distances from vegetation were made based on surface fuels to edge of lot (subject site) boundary;
- BAL Calculation was worked from external boundaries of the subject site, with the assumption that all internal areas of the lots will be maintained to APZ standards by the new owners;
- Effective slopes were measured in the field using a Nikon Forestry Pro and represented on the respective plots;
- Method 1 (AS3959-2009) Simplified procedure was used for vegetation classification and BAL Assessment process;
- Vegetation was classified within 100m of the lot boundaries;
- The perimeter of the vegetation was measured using field GPS and notations on field GIS maps;
- The BAL Contour Plan was prepared by an Accredited Level 2 Bushfire Planning Practitioner (BPAD30794); and
- The BAL Contour Map has been prepared in accordance with Department of Planning (WAPC) Fact Sheet – BAL Contour Maps (Version 2, January 2016).

ASSUMPTIONS

- The lots and the Development Exclusion areas can be fuel reduced to meet APZ standards; and
- All other areas on the lots can be cleared or maintained to APZ standards as per AS3959-2009 Low fuel Exclusion 2.2.3.2 (f) and the Guidelines for Planning in Bushfire Prone Areas – APZ Standards (Appendix Four A 2.1 Version 1.1, February 2017).



REPORT ITEM DIS 115 REFERS

This Report Refers to:
 Kathryn Kinross, Bio Diverse Solutions
 Accreditation No: BPAD30794
 Valid to: Feb 2017
 Jurisdiction: Level 2 - WA

BPAD Bushfire Planning & Design Accredited Practitioner Level 2

BIO DIVERSE SOLUTIONS

Unit 5A, 209 Chester Pass Rd
 Albany, WA 6330
 Australia
 Tel: 08 9842 1575
 Fax: 08 9842 1575

Overview Map Scale 1:100,000

Legend

- Subject Site
- 100m Assessment Boundary
- Proposed Building Envelope
- Cadastre

Vegetation

- Forest Type A
- Woodland Type B
- Shrubland Type C
- Scrub Type D
- Grassland Type G
- Low fuel or non vegetated 2.2.3.2

BAL Contours

- BAL-FZ
- BAL-40
- BAL-29
- BAL-19
- BAL-12.5

Scale
 1:2,250 @ A3
 GDA MGA 94 Zone 50

Data Sources
 Aerial Imagery: SLIP Virtual Mosaic WMS Service, Landgate 2016
 Cadastre and Contours: Landgate 2016
 Overview Map: World Topographic map service, ESRI 2012

CLIENT
 Ayton Baesjou
 Lots 84, 85, 87, 98 Home and Harding Road
 Albany, WA 6330

BAL Contour Plan

| STATUS | FILE | DATE |
|--------|-------|------------|
| FINAL | AB007 | 17/02/2017 |

AS3959-2009 disclaimer: It should be borne in mind that the measures contained within this Standard (AS3959-2009) cannot guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the unpredictable nature and behaviour of fire and extreme weather condition. (AS3959, 2009)

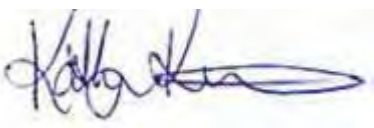
Building to AS3959-2009 is a standard primarily concerned with improving the ability of buildings in designated bushfire prone areas to better withstand attack from bushfire thus giving a measure of protection to the building occupants (until the fire front passes) as well as to the building itself.

SECTION 4: DISCLAIMER

The recommendations and measures contained in this assessment report are based on the requirements of the Australian Standards 3959-2009 – Building in Bushfire prone Areas, WAPC State Planning Policy 3.7 (WAPC, 2015), , WAPC Guidelines for Planning in Bushfire Prone Areas (WAPC, 2015), and CSIRO’s research into Bushfire behaviour. These are considered the minimum standards required to balance the protection of the proposed dwelling and occupants with the aesthetic and environmental conditions required by local, state and federal government authorities. They DO NOT guarantee that a building will not be destroyed or damaged by a bushfire. All surveys and forecasts, projections and recommendations made in this assessment report and associated with this proposed dwelling are made in good faith on the basis of the information available to the fire protection consultant at the time of assessment. The achievement of the level of implementation of fire precautions will depend amongst other things on actions of the landowner or occupiers of the land, over which the fire protection consultant has no control. Notwithstanding anything contained within, the fire consultant/s or local government authority will not, except as the law may require, be liable for any loss or other consequences (whether or not due to negligence of the fire consultant/s and the local government authority, their servants or agents) arising out of the services rendered by the fire consultant/s or local government authority.

SECTION 7: Certification

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009 (Incorporating Amendment No’s 1, 2 and 3).

SIGNED, ASSESSOR:  .. DATE:

Kathryn Kinnear, Bio Diverse Solutions
 Accredited Level 1 BAL Assessor (Accreditation No: BPAD30794)
 “Experienced” Level 2/3 Bushfire Practitioner pending accreditation.



References

Western Australian Planning Commission (WAPC) (2017) Guidelines for Planning in Bushfire Prone Areas Version 1.1. Western Australian Planning Commission and Department of Planning WA, Government of Western Australia.

Western Australian Planning Commission (WAPC) State Planning Policy 3.2 Planning in Bushfire Prone Areas. Department of Planning WA and Western Australian Planning Commission.

State Land Information Portal (SLIP) (2015 & 2016) map of Bushfire Prone Areas. Office of Bushfire Risk management (OBRM) data retrieved from:

Appendix 1: – Additional Information / Advisory Notes / Justifications Related to Assessment

Vegetation types analysed to AS3959-2009 with the following justifications:

Forest type A

- Multi-layered vegetation structure;
- Surface fuels and could reach 25-35T/ha;
- 30-70% vegetative structure/cover; and
- Eucalypt Trees 10-30m.

Woodland Type B

- Not multi-layered vegetation structure;
- Available fuels and could reach 15-25T/ha;
- 10-<30% vegetative structure/cover;
- Eucalypt Trees 8-15m.

Scrub Type D:

- Maximum vegetation heights 4m;
- Occasional tree at 5m;
- >30% vegetative cover;
- Available Fuels 25T/ha; and
- Melaleuca, pampas grass and tea tree scrubs.

Grassland Type G

- Unmanaged grasslands – not regularly slashed or grazed;
- Average heights of grasses 100-400mm;
- Dominated by grass species; and potential fuel loading 4.5t/ha; and
- <10% tree/scrub species present.

Low Fuel and non-vegetated areas (AS3959-2009 2.2.3.2):

Clause (e) – Non-vegetated areas, including waterways, roads, footpaths, buildings and rocky outcrops.

- Footpaths;
- Buildings;
- Bare ground;
- Car parks; and
- Roads

Clause (f) – Low threat vegetation including managed grassland in minimal fuel condition, maintained lawns, golf courses, maintained public reserves and parklands, vineyards, orchards, cultivated ornamental gardens, commercial nurseries, nature strips and wind breaks.

- Low fuel areas associated with managed grasslands, ornamental gardens in APZ areas of established buildings/dwellings; and
- Managed grasses <100mm in height, evidence of regular mowing.

BAL Assessment undertaken by an Experienced Level 2 Bushfire Practitioner. Method 1 AS3959-2009 applied for BAL Assessment.

Appendix 2 – OBRM Mapping



(SLIP, 2015 & 2016)

Appendix 3 – Local Structure Plan



Local Structure Plan
 Frenchman Bay,
 Home & Harding Roads
 Rural Residential Area 43
 Lots 84, 85 Harding Road &
 Lots 86, Pt87 & Pt98 Home Road
 Robinson, City of Albany



| Checklist for proposal compliance and justification to the Guidelines for Planning in Bushfire Prone Areas (2015) | | | |
|--|--|---|------------------|
| BDS Project Name | BAL Contour Plan | | |
| BDS Job Number | AB007 | | |
| Date | 20/2/17 | WAPC# | N/A |
| Client name | Ayton Baesjou | Condition # | N/A |
| Bushfire Prone Area | Yes (see attached) | Mapping | Yes see attached |
| Planning proposal | WAPC subdivision | Lots created | 14 |
| 1. Bushfire Protection Criteria Acceptable Solutions as defined by Guidelines for Planning for Bushfire Prone Areas (WAPC 2015). | | | |
| Element | Compliant to Acceptable Solution– Yes/No | Justification | |
| Element 1 – Location | No | <p>Site has areas which are classified extreme and Low hazards. (Forest Type A, Woodland Type B, Scrub Type D, Grassland Type G). Proposed buildings can be in BAL 29 to BAL 12.5 zones and existing buildings in BAL 12.5 or BAL low.</p> <p>Development is deemed to meet Acceptable Solutions for Element 1.</p> | |
| Element 2 - Siting and design of development | Yes | <p>A2.1: APZ can be achieved within the individual lots and a setback associated with BAL 29 or less. Fuel can be modified within the lots to meet APZ requirements.</p> <p>Plan of subdivision is deemed to meet Acceptable Solutions for Element 2 with APZ's applied to BAL 29 or less to lots.</p> | |
| Element 3 - Vehicular access | Yes | <p>A3.1: Direct access onto Home and Harding Roads for most lots to separate destinations. A3.2 Public roads not proposed. A3.3 Cul-de-sacs not proposed. A3.4 Battle axes proposed, do not exceed 200m. A3.5 Private Driveways will meet minimum requirements. A3.6 No EAW proposed, use the existing road network. A3.7 No FSA proposed, use the existing road network. A3.8 Firebreaks compliant by current owner (s). Deemed to meet Acceptable Solutions for Element 3.</p> | |
| Element 4 – Water | Yes | <p>Reticulated water. Deemed to meet Acceptable Solutions for Element 4.</p> | |
| Bushfire Hazard Assessment required | Yes | See Vegetation Classes Plan Page 2. | |
| BAL Contour required | Yes | See BAL Contour Map Page 16. | |
| BMP required | Yes | <p>Extreme levels of fuel and slope exist within the properties. Application of APZ for BAL setbacks of BAL 29 or less is required.</p> | |

2. Recommendations based on above checklist

1. Assessment indicates that the location has bushfire hazards of Forest Type A, Scrub Type D, Woodland Type B, Grassland Type G external and internal to site. Internal areas low fuel to be maintained by the developer/land owners.
2. BAL 12.5, BAL 19, BAL-29 can be achieved in newly created lots. Existing buildings can achieve BAL 29 or less. All new buildings to be placed in the BAL 29 or less contours in BE's.
3. Brief assessment to Guidelines indicated can meet the Elements by applying Acceptable Solutions can be achieved in the subsequent stages.
4. Detailed BMP required as a condition of subdivision.
5. Notification for condition of approval - building to AS3959-2009 to apply to any new dwellings.
6. Bushfire prone area mapping is correct as per the Map of Bush Fire Prone Areas identifying land falling within, or partially within, a bush fire prone area of Western Australia as designated by the Fire and Emergency Services (FES) Commissioner dated 8/12/2015 and 21/5/2016. Updates of this mapping will occur at the discretion of the FES Commissioner and the BAL Contour Mapping is considered valid for a period of 12 months from the date of production.

Prepared by:

Kathryn Kinnear, Bio Diverse Solutions

Accredited Level 2 Bushfire Practitioner (Accreditation No: BPAD30794)



PLANNING AND DEVELOPMENT ACT 2005

CITY OF ALBANY

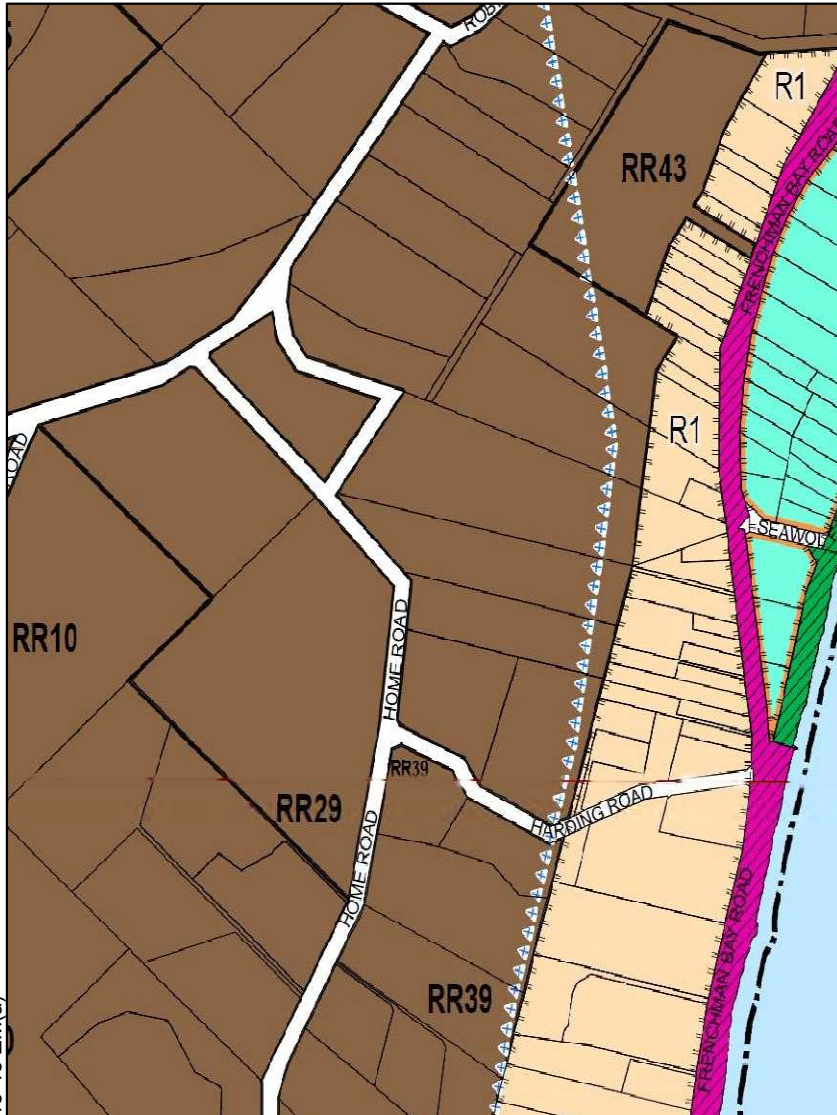
LOCAL PLANNING SCHEME No. 1

AMENDMENT No. 27

The City of Albany under and by virtue of the powers conferred upon it in that behalf by the Planning and Development Act 2005 hereby amends the above local planning scheme by:

- i. Transferring Lots 84, 85 & 86 and portion of Lots 87 & 98 from Schedule 14 Rural Residential Zone Area No. 29 to Rural Residential Zone Area No. 43.
 - ii. Renaming Schedule 14 Rural Residential Zone Area No. 43 Specified Rural Residential Zone from "Lot 114 Frenchman Bay Road Robinson" to "Frenchman Bay, Harding & Home Roads Rural Residential Area".
 - iii. Within Provisions 1, 2 & 11 of Schedule 14 Rural Residential Zone Area No. 43 replacing "Subdivision Guide Plan" with "Local Structure Plan".
 - iv. Replacing Provision 9 of Schedule 14 Rural Residential Zone Area No. 43 with the following:
"For the Lots applicable to a Local Structure Plan and which a reticulated water supply is provided, all dwellings shall be required to provide a rainwater tank of not less than 50,000 litres capacity to harvest rainwater for household and garden use. In other circumstances, clause 5.6.9 of the Scheme shall apply."
 - v. Within Provision 13 of Schedule 14 Rural Residential Zone Area No. 43 replacing "reduced by 7.5m" with "reduced to 7.5m".
 - vi. Replacing Provision 17 of Schedule 14 Rural Residential Zone Area No. 43 with the following:
"The Local Government may require the subdivider to make arrangements satisfactory to the Local Government to ensure prospective purchasers are advised that a Bushfire Management Plan may apply to the land and that prospective purchasers are advised of the potential for nuisance impacts of odour, noise, dust and spray drift from agricultural activities undertaken in the locality."
 - vii. Replacing Provision 18 of Schedule 14 Rural Residential Zone Area No. 43 with the following:
"Where shown on a Local Structure Plan a vegetated agricultural buffer is to be provided to the minimum width of 20 metres, plus where shown, a 10 metre setback for access."
 - viii. Replacing Provision 19 of Schedule 14 Rural Residential Zone Area No. 43 with the following:
"In relation to the 20 metre vegetated agricultural buffer to the north of the existing market garden, species used in the closest 10 metre portion of the buffer shall not be capable of growing taller than 3 metres to prevent the incidence of overshadowing."
 - ix. Including a Provision 20 within Schedule 14 Rural Residential Zone Area No. 43 as follows:
"Bushfire Management
20. The Local Government may request the Commission to impose a condition at the time of subdivision requiring the preparation and implementation of a Bushfire Management Plan in accord with SPP 3.7."
- and
- x. Updating the Scheme Maps accordingly.

Existing Zoning



LEGEND

LOCAL SCHEME RESERVES

(see scheme text for additional information)

- Local road
- Parks and recreation
- Priority road
- Waterbodies

LOCAL SCHEME ZONES

(see scheme text for additional information)

- Residential
- Rural residential
- Tourist residential

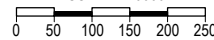
OTHER CATEGORIES

(see scheme text for additional information)

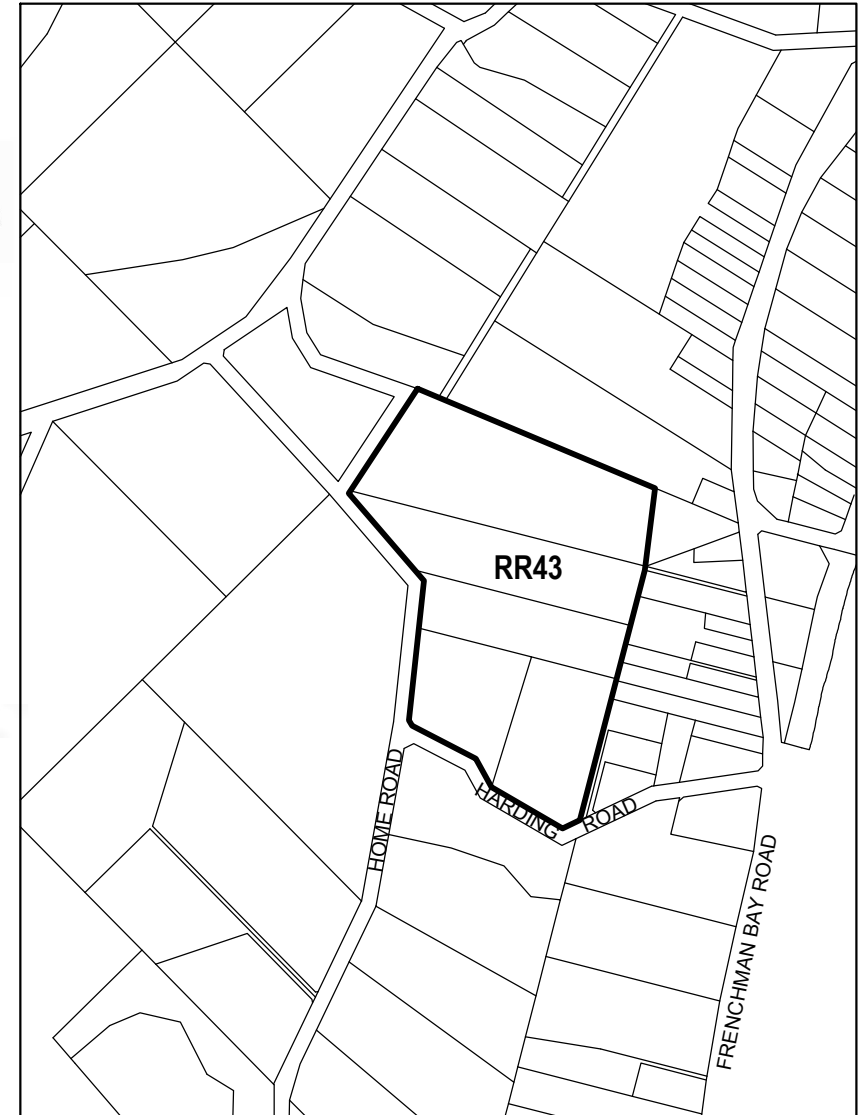
- Scheme boundary
- R20 R Codes
- RR1 Rural residential area
- Public drinking water sources special control areas (see c.6.3)



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SCALE 1:10000



Proposed Zoning



15-15-ZM(a)

ADOPTION

Adopted by resolution of the Council of the City of Albany at the Meeting of the Council held on the _____ day of _____ 20_____

Mayor

Chief Executive Officer

FINAL APPROVAL

Adopted for final approval by resolution of the City of Albany at the Meeting of the Council held on the _____ day of _____ 20_____ and the Common Seal of the City of Albany was hereunto affixed by the authority of a resolution of the Council in the presence of:

Mayor

Chief Executive Officer

Recommended/Submitted for Final Approval

**Delegated Under S.16
of the PD Act 2005**

Date

Final Approval Granted

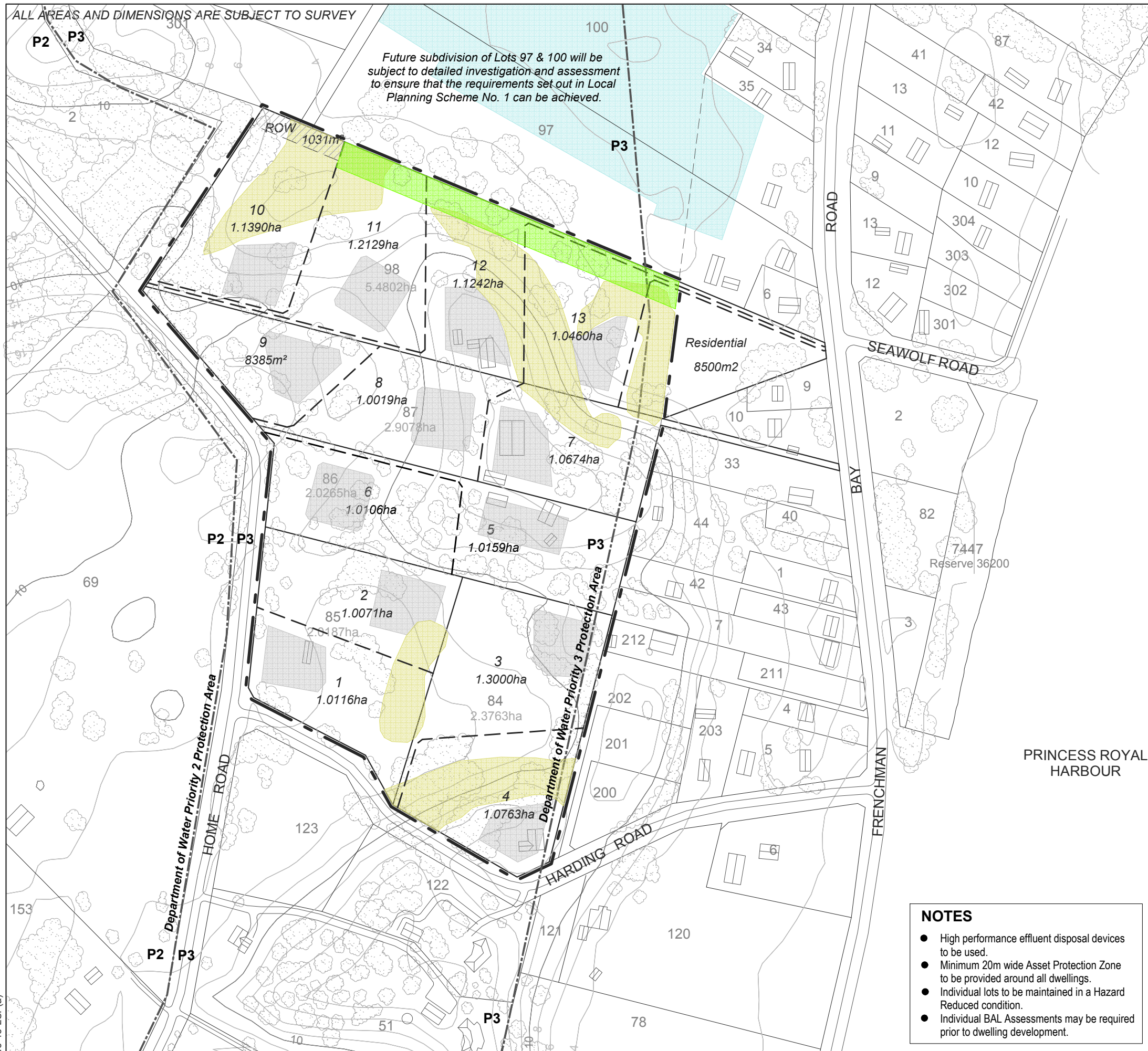
Minister for Planning

Date

Local Structure Plan

Frenchman Bay,
Home & Harding Roads
Rural Residential Area 43

Lots 84, 85 Harding Road &
Lots 86, Pt87 & Pt98 Home Road
Robinson, City of Albany



LEGEND

- Subject Land
- Existing Lot Boundaries
- Proposed Lot Boundaries
- Existing Vegetation
- Existing Buildings
- Vegetated Agricultural Buffer
- Effluent Disposal Exclusion Area
- Market Garden
- Indicative Building Envelope Max 2000m2
- DoW Priority 2 Protection Area
- DoW Priority 3 Protection Area

Map Modification - 1a
Map Creator - BQ/MRT
Copyright - Aytou Baesjou Planning
Sources - Landgate (Cadastral & Contours)
Datum - AHD
Contact - Aytou Baesjou Planning
Disclaimer - Subject to Verification & Survey

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- NOTES**
- High performance effluent disposal devices to be used.
 - Minimum 20m wide Asset Protection Zone to be provided around all dwellings.
 - Individual lots to be maintained in a Hazard Reduced condition.
 - Individual BAL Assessments may be required prior to dwelling development.

AYTON BAESJOU
P L A N N I N G
59 Peels Place
ALBANY WA 6330
Ph 9842 2304 Fax 9842 8494

CITY OF ALBANY
LOCAL PLANNING SCHEME No. 1

LOCAL STRUCTURE PLAN

RURAL RESIDENTIAL AREA No. 43
FRENCHMAN BAY, HARDING & HOME ROADS
ROBINSON

Endorsement

This structure plan is prepared under the provisions of the City of Albany Local Planning Scheme No. 1.

IT IS CERTIFIED THAT THIS STRUCTURE PLAN WAS APPROVED BY RESOLUTION OF THE WESTERN AUSTRALIAN PLANNING COMMISSION ON:

_____ Date

Signed for and on behalf of the Western Australian Planning Commission:

an officer of the Commission duly authorised by the Commission pursuant to section 16 of the Planning and Development Act 2005 for that purpose, in the presence of:

_____ Witness

_____ Date

_____ Date of Expiry

Amendments:

| Amendment No. | Summary of Amendment | Amendment Type | Date Approved (WAPC) |
|---------------|----------------------|----------------|----------------------|
| | | | |
| | | | |
| | | | |
| | | | |

EXECUTIVE SUMMARY

This Local Structure Plan has been prepared to guide subdivision and development of Lots 84, 85, 86 and a portion of Lots 87 & 98 Home, Harding & Frenchman Bay Roads Robinson for Rural Residential purposes.

The land is located less than 5.5km from the Albany Central Area and is currently used for Rural Small Holding/ Rural Residential Purposes.

In accord with local and state policy promoting the efficient use of underutilised zoned and serviced land, the Local Structure Plan provides for the intensification of Rural Residential landuse to the density set and permitted in the locality and as established by local scheme and strategy.

Lot yield and arrangement is based on capability, site opportunities and constraints and is informed by specific site and fire assessments.

This Local Structure Plan should be read with and is adjunct to Local Planning Scheme No. 1 Amendment No. 27.

| Local Structure Plan Summary Table: | |
|--|-----------|
| Total Area | 14.05ha |
| Existing Lots | 5 |
| Lot Yield | 13 |
| Dwelling Density | 1.05ha/Dw |
| Estimated Population | 31pp |
| Estimated Additional Population | 19pp |
| School Sites/ Other | NA |

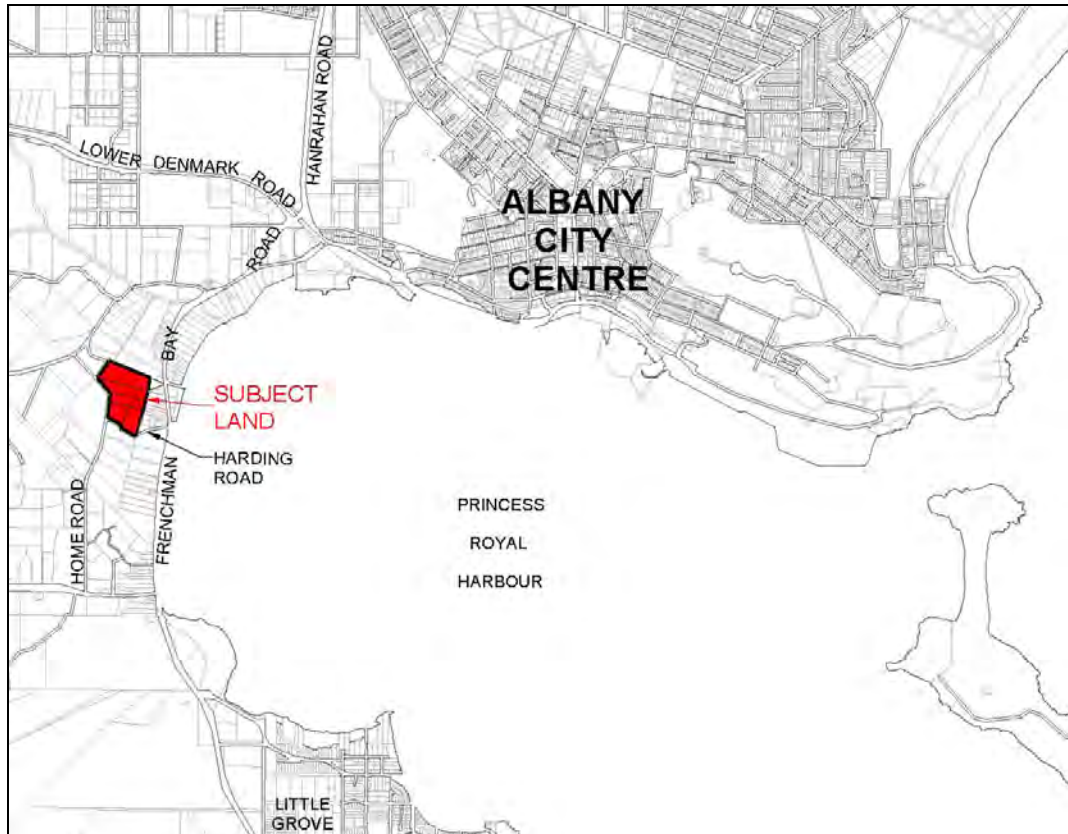
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| 3.0 RELATIONSHIP TO LOCAL PLANNING SCHEME NO. 1..... | 1 |
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| 5.0 SUBDIVISION AND DEVELOPMENT CONDITIONS | 1 |
| LOCAL STRUCTURE PLAN MAP | 2 |
| PART 2 – EXPLANATORY | 3 |

PART 1. – STATUTORY

1.0 Structure Plan Area

The Structure Plan covers Lots 84, 85, 86 and a portion of Lots 87 & 98 Home, Harding & Frenchman Bay Roads Robinson zoned Rural Residential and as shown below.



2.0 Content of Local Structure Plan

The Local Structure Plan comprises two parts being:

1. Statutory; Containing the Local Structure Plan Map (Following Page).
2. Explanatory; referring to the background for and issues inherent in the Local Structure Plan per Local Planning Scheme No. 1 Amendment No. 27.

3.0 Relationship to Local Planning Scheme No. 1

The requirements of the LSP apply as if they were part of the Scheme.

In any conflict between scheme clauses or provisions and the LSP, the provisions or clauses of the scheme shall prevail.

Words and expressions used in the LPS have the same meaning as given in Local Planning Scheme No. 1. Pursuant to clause 27 Schedule 2 Part 4 of the Planning and Development (Local Planning Schemes) Regulations 2015, due regard is to be given to the requirements of the Local Structure Plan in any subdivision and development applications.

4.0 Operation

The LSP will come into effect following certification by the WA Planning Commission.

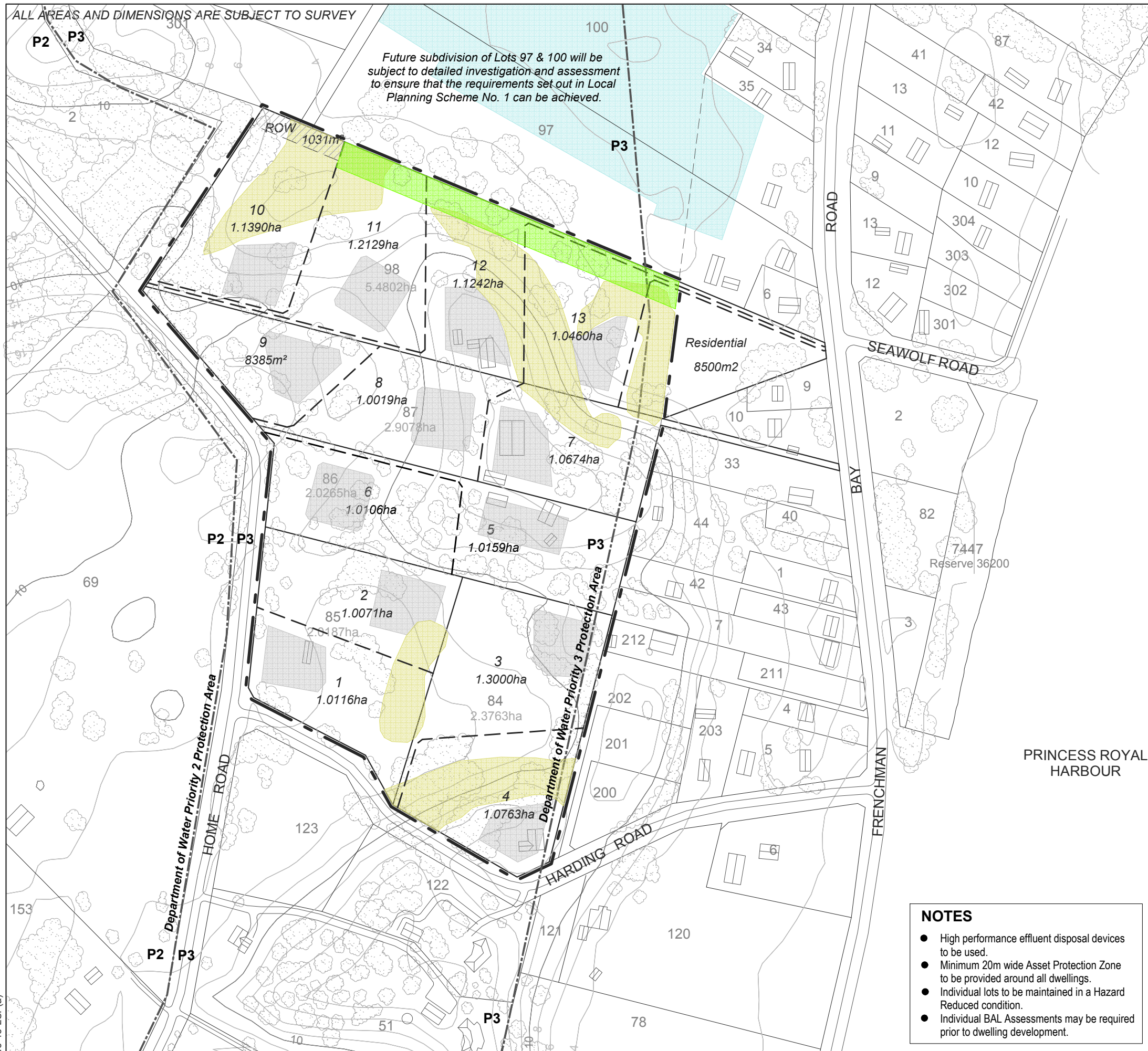
5.0 Subdivision and Development Conditions

In addition to the general clauses of the Scheme and the Special Provisions of Schedule 14 relating to Rural Residential Area No. 43, subdivision is to follow that shown on the LSP Map. Minor variations may be approved by the WA Planning Commission.

Local Structure Plan

Frenchman Bay,
Home & Harding Roads
Rural Residential Area 43

Lots 84, 85 Harding Road &
Lots 86, Pt87 & Pt98 Home Road
Robinson, City of Albany



LEGEND

- Subject Land
- Existing Lot Boundaries
- Proposed Lot Boundaries
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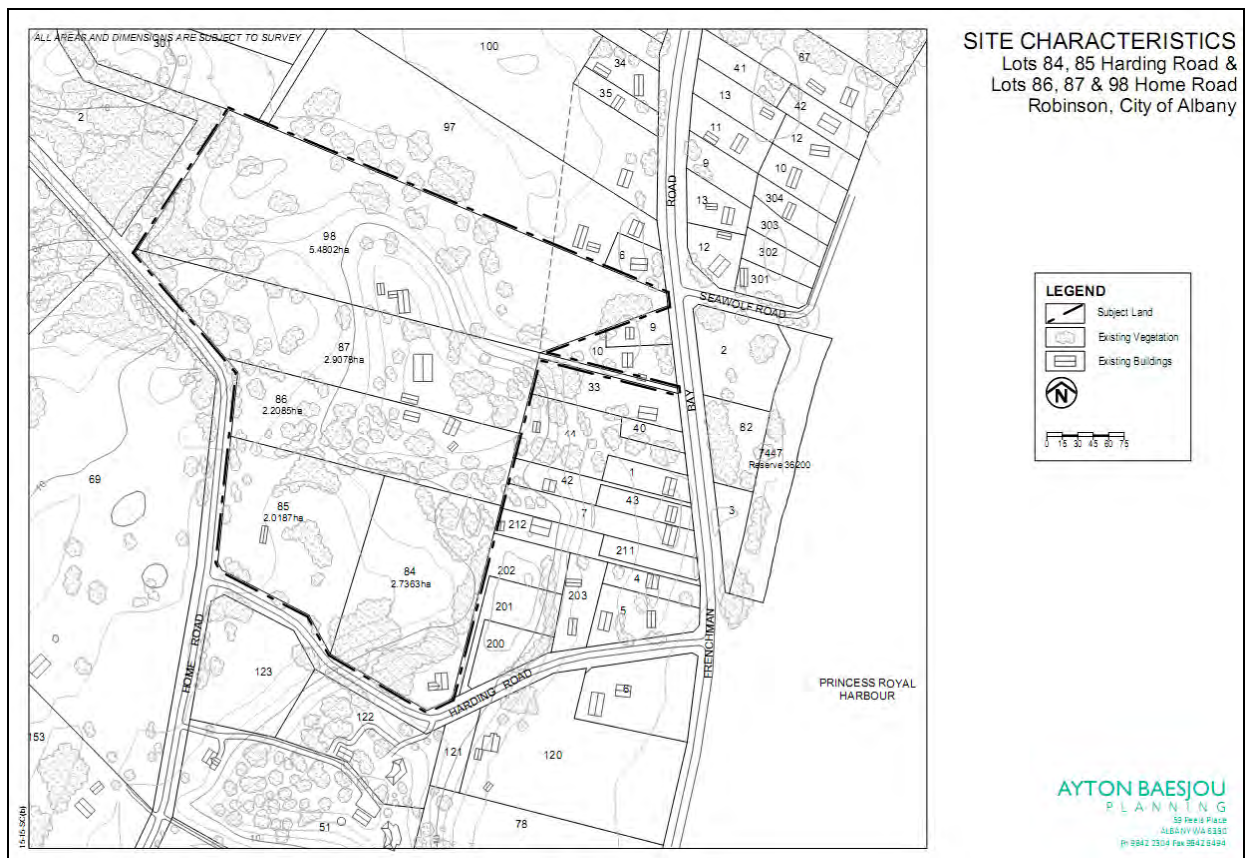
- NOTES**
- High performance effluent disposal devices to be used.
 - Minimum 20m wide Asset Protection Zone to be provided around all dwellings.
 - Individual lots to be maintained in a Hazard Reduced condition.
 - Individual BAL Assessments may be required prior to dwelling development.

AYTON BAESJOU
PLANNING
59 Peels Place
ALBANY WA 6330
Ph 9842 2304 Fax 9842 8494

PART 2 – EXPLANATORY

The land is located some 5.5km by road south west of the Albany City Centre (Princess Royal Drive and Frenchman Bay Road). The land has access to Frenchman Bay Road, Harding Road & Home Road.

Lot sizes range from 2ha to 5.4ha and are used for rural retreat or rural small holdings purposes. The land is in a precinct comprised of residential lots fronting and east of Frenchman Bay Road, rural residential and rural pursuits on the low flat land to the north with established rural residential estates to the south and west.



As a part of Amendment No. 27 to Local Planning Scheme No. 1 which seeks to transfer the land from Rural Residential Area No. 29 to Area No. 43, a Local Structure Plan (Map) is required. This plan identifies the future lot layout and associated spatial subdivision and development issues and requirements following on from the special provisions identified in Amendment 27 necessary to apply to the land.

As a result, reference should be made to the Amendment No. 27 reports and technical assessments covering site and capability, bushfire safety, existing provisions, servicing and the requirements for future subdivision.

The LSP depicts the general layout, outlines effluent disposal exclusion areas, indicative building envelopes, access arrangements and the other subdivisional components necessary to provide for development.

The plan is based on capability, site opportunities and constraints and is informed by specific site and fire assessments. Background and analysis including the site specific assessments carried out are included in the Amendment No. 27 documentation.

Supporting the LSP, Amendment No. 27 and the existing rural residential controls include measures to:

- Include the land within Rural Residential Area No. 43 and reference the LSP Map as the guide to future subdivision.
- Provide for subdivisional and development servicing as necessary.
- Provide for landowner notifications covering agricultural activities and bushfire safety.
- Include specific bushfire safety provisions.
- Provide prudent landuse control and approval requirements.
- Provide building envelope and effluent disposal location control.

Appendix C

Fire Assessment

RR 43 Home & Harding Road Precinct

Biodiverse Solutions Pty Ltd

AS 3959 Bushfire Attack Level (BAL) Contour Plan Report

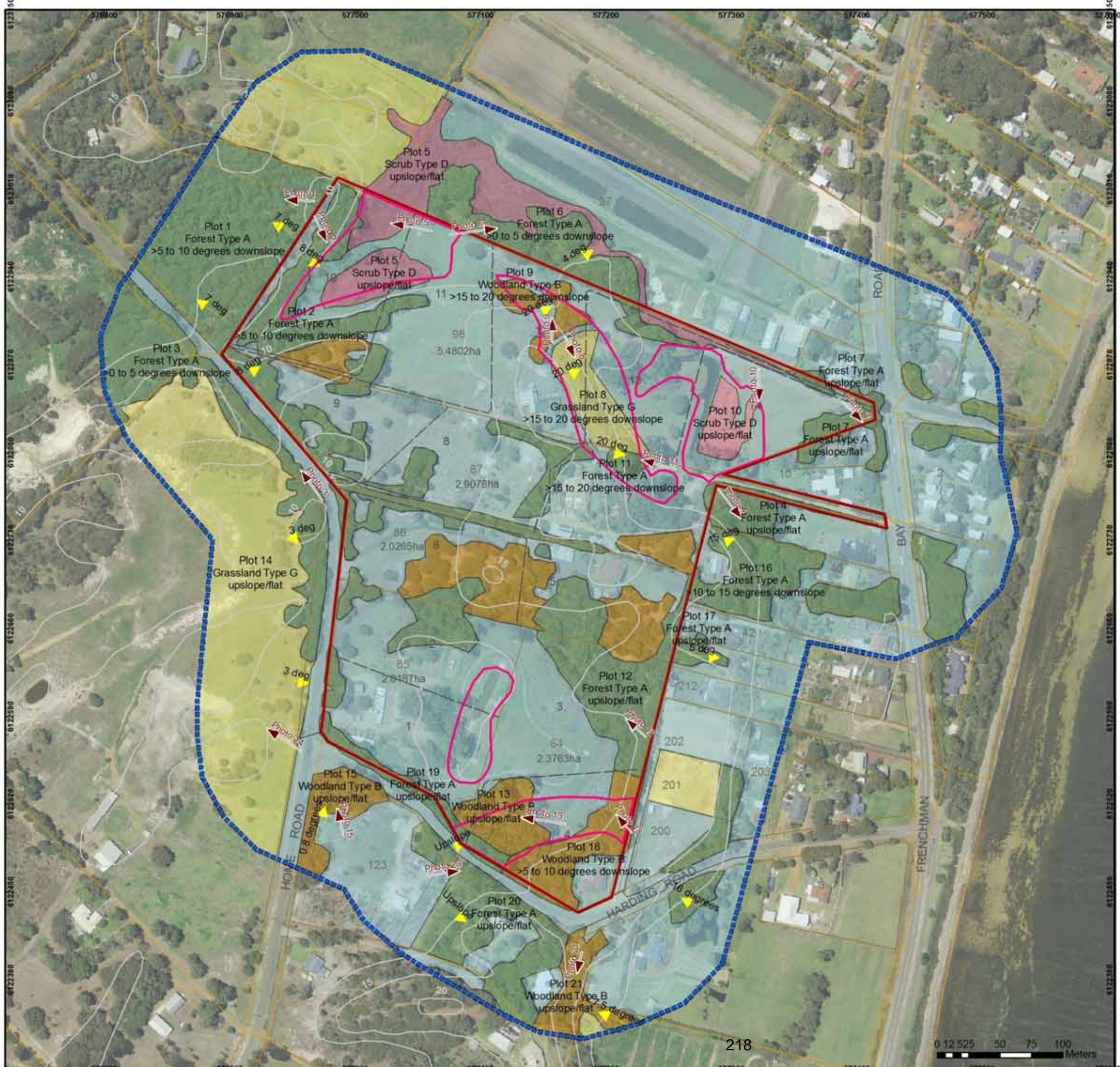
| Site Details | | | |
|---------------------------------------|--|---------------|------|
| Address: | Lots 84,85,87,98 Home and Harding Road | | |
| Suburb: | Robinson | State: | W.A. |
| Local Government Area: | City of Albany | | |
| Description of Building Works: | Building development | | |
| Stage of WAPC Planning | WAPC Application | | |

| Report Details | | | |
|-----------------------------|---|------------------------|-------------|
| Report / Job Number: | AB007 | Report Version: | Final Ver 2 |
| Assessment Date: | 1 st & 8 th November 2016 | Report Date: | 20/2/2017 |





Overview Map Scale 1:100,000



Legend

- Photo ID
- Subject Site
- 100m Assessment Boundary
- Cadastre
- 5m Contours
- Slope Degrees
- Vegetation
 - Forest Type A
 - Woodland Type B
 - Shrubland Type C
 - Scrub Type D
 - Grassland Type G
 - Low fuel or non vegetated 2.2.3.2
 - Development Exclusion Area

Scale
 1:3,000 @ A3
 GDA MGA 94 Zone 50


Data Sources
 Aerial Imagery: SLIP Virtual Mosaic WMS Service, Landgate 2016
 Cadastre and Contours: Landgate 2016
 Overview Map: World Topographic map service, ESRI 2012


CLIENT
 Ayton Baesjou
 Lots 84, 85, 87, 98 Home and Harding Road
 Albany, WA 6330


| Vegetation Classes Map | | |
|------------------------|-------|------------|
| STATUS | FILE | DATE |
| FINAL | AB007 | 16/12/2016 |


SECTION 1 - Vegetation Classification


All vegetation within 100m of the site / proposed development was classified in accordance with Table 2.3 of AS 3959-2009. Each distinguishable vegetation plot with the potential to determine the Bushfire Attack Level is identified below and shown on the Vegetation Classes Map page 2.


| Plot | 1 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Down slope-effective slope 7 degrees.</p> | |
| <p>Photo 1-Photo ID 1-Looking north east from northern boundary. Boundary located on ridge running from east to west.</p> | | | |

| Plot | 2 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope/downslope (straddles ridgline)-effective slope 8 degrees. Internal to site-APZ management can be applied.</p> | |
| <p>Photo 2-Photo ID 2 –Photo looking south east from plot 1.</p> | | | |

| Plot | 3 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Downslope-effective slope 3 degrees. External to site. Separation 10 metres.</p> | |
| <p>Photo 3-Photo ID 3- View looking north along Home Road. Road cuts through original ridge line.</p> | | | |

| Plot | 4 | Classification or Exclusion Clause | Forest Type A |
|---|---|--|---------------|
|  | | <p>Closed Warren River Cedar Forest and Peppermint forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Flat land. 0m separation to site.</p> | |
| <p>Photo 4-Photo ID 4-View to the south east. Steep slopes are located further south.</p> | | | |

| Plot | 5 | Classification or Exclusion Clause | Scrub Type D |
|--|---|--|--------------|
|  | | <p>Pampas Grass to 3 metres in height growing on peat swamp. Potential Fuel Loading 25t/ha at maturity. >30% vegetative cover. Flat land. Internal and external to the site and contained within development exclusion area. Internal to site-APZ management can be applied.</p> | |
| <p>Photo 5-Photo ID 5-View west towards plots 1 and 2. Heavy Pampas grass infestation.</p> | | | |

| Plot | 6 | Classification or Exclusion Clause | Forest Type A |
|--|---|---|---------------|
|  | | <p>Closed <i>Agonis flexuosa</i> forest Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. External to site. Downslope-effective slope 4 degrees.</p> | |
| <p>Photo 6-Photo ID 6-View to the north east. Heavy infestation of Arum Lilly and Dolichos</p> | | | |


| Plot | 7 | Classification or Exclusion Clause | Forest Type A |
|---|---|---|---------------|
|  | | <p><i>Agonis flexuosa</i> forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Located external and external to site. Flat ground. Internal to site-APZ management can be applied.</p> | |

Photo 7-Photo ID 7-Looking south towards adjoining property. Heavy pasture invasion in understory.


| Plot | 8 | Classification or Exclusion Clause | Grassland Type G |
|---|---|---|------------------|
|  | | <p>Located with development exclusion area. Potential fuel load 3-4.5 t/ha. Down slope-effective slope 20 degrees to the east Internal to site. Mowing and slashing to meet APZ requirement. Internal to site-APZ management can be applied.</p> | |

Photo 8-Photo ID 8-View to the south from driveway-height of grasses exceeds 300mm. Patchy understory regeneration displays frequency of current management.


| Plot | 9 | Classification or Exclusion Clause | Woodland Type B |
|---|---|---|-----------------|
|  | | <p>Peppermint woodland average height 9-10 metres with 10-30% foliage cover. Understory cleared-replaced by mixed unmanaged pasture-grasses 100-300mm. Not multi layered. Effective slope 20 degrees. Potential fuel loading 15-25 t/ha. Internal to site and located within development exclusion area. APZ management standards can be applied.</p> | |

Photo 9-Photo ID 9-Looking north towards plot 6


| Plot | 10 | Classification or Exclusion Clause | Scrub Type D |
|---|----|--|--------------|
|  | | <p>Located to the east-internal to subject site. Pampas grass infestation adjoining water hole. Currently grazed by goats. If grazing were discontinued the site would return to a state similar to plot 5. Potential fuel load 3-4.5 t/ha. Flat ground. Internal to site-APZ management can be applied.</p> | |

Photo 10-Photo ID 10-View to the south east. Goats can just be seen in background.


| Plot | 11 | Classification or Exclusion Clause | Forest Type A |
|------|---|------------------------------------|--|
| |  | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Downslope-effective slope 20 degrees. Internal to site, within development exclusion area. APZ management can be applied.</p> |

Photo 11-Photo ID 11-View to the west. Plot 8 located top right of photo.




| Plot | 12 | Classification or Exclusion Clause | Forest Type A |
|------|---|------------------------------------|---|
| |  | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Effective Slope – Upslope. Internal to site, within development exclusion area. APZ management can be applied.</p> |

Photo 12-Photo ID 12 View of forest Type A from the east (LHS of Phot)

| Plot | 13 | Classification or Exclusion Clause | Woodland Type B |
|--|----|------------------------------------|--|
|  | | | <p>Karri woodland average height 15 metres with 10-30% foliage cover. Some over storey dying. Understorey cleared-replaced by mixed unmanaged pasture-grasses 100-300mm. Not multi layered. Effective slope flat ground. Potential fuel loading 15-25 t/ha. Internal to site. APZ management standards can be applied.</p> |
| <p>Photo 13-Photo ID 13-View to the west adjacent to Lot 12. Heavy weed infestation present.</p> | | | |

| Plot | 14 | Classification or Exclusion Clause | Grassland Type G |
|--|----|------------------------------------|--|
|  | | | <p>Located western boundary-external to subject site. Currently grazed. Potential fuel load 3-4.5 t/ha. Effective slope - Upslope. Separation 11 metres.</p> |
| <p>Photo 14-Photo ID 14-view to the north west from home Road.</p> | | | |



| Plot | 15 | Classification or Exclusion Clause | Woodland Type B |
|---|----|--|-----------------|
|  | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm. Not multi layered. Upslope-effective slope 0.8 degrees. External to site</p> | |

Photo 15-Photo ID 15 View of Woodland Type B in private property to the south

| Plot | 16 | Classification or Exclusion Clause | Forest Type A |
|---|----|--|---------------|
| <p><i>Photo not available, private property</i></p> | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Down slope-Effective slope 15 degrees. External to site.</p> | |

| Plot | 17 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|--|
| <p><i>Photo not available, private property</i></p> | | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope-effective slope 5 degrees. External to site.</p> |
| | | | |

| Plot | 18 | Classification or Exclusion Clause | Woodland Type B |
|---|----|------------------------------------|--|
|  | | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm.Scattered remnant natives Not multi layered. Down slope-effective slope 10 degrees to existing house. Upslope to lot internal areas. Internal to site-APZ management can be applied.</p> |
| | | | <p>Photo 18-Photo ID 18-View of Woodland Type B north of existing house</p> |


| Plot | 19 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|---|
|  | | | <p>Closed <i>Agonis Flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Flat Ground. Internal and external to site. Internal to site-APZ management can be applied.</p> |

Photo 19-Photo ID 19-Looking west to Home Road of Plot 19 (RHS of photo)


| Plot | 20 | Classification or Exclusion Clause | Forest Type A |
|---|----|------------------------------------|---|
|  | | | <p><i>Agonis flexuosa</i> Forest. Multi-layered vegetation structure. Potential Surface fuels 25-35T/ha. 30-70% vegetative structure/cover. Average tree height 8-13m. Upslope. External to site,</p> |

Photo 20-Photo ID 20-View to the south west from the north east of Plot 20.


| Plot | 21 | Classification or Exclusion Clause | Woodland Type B |
|---|----|---|-----------------|
|  | | <p>Peppermint woodland average height 6-8 metres with 10-30% foliage cover. Understory - unmanaged pasture-grasses 100-300mm. Scattered remnant natives. Not multi layered. Upslope. External to site to the south east.</p> | |

Photo 21-Photo ID 21 view of Woodland Type B to the south east of the subject site. View from the north to the south along Plot 21 in private property.

SECTION 3: Potential Bushfire Impacts

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below and shown on the BAL Contour Page 16.

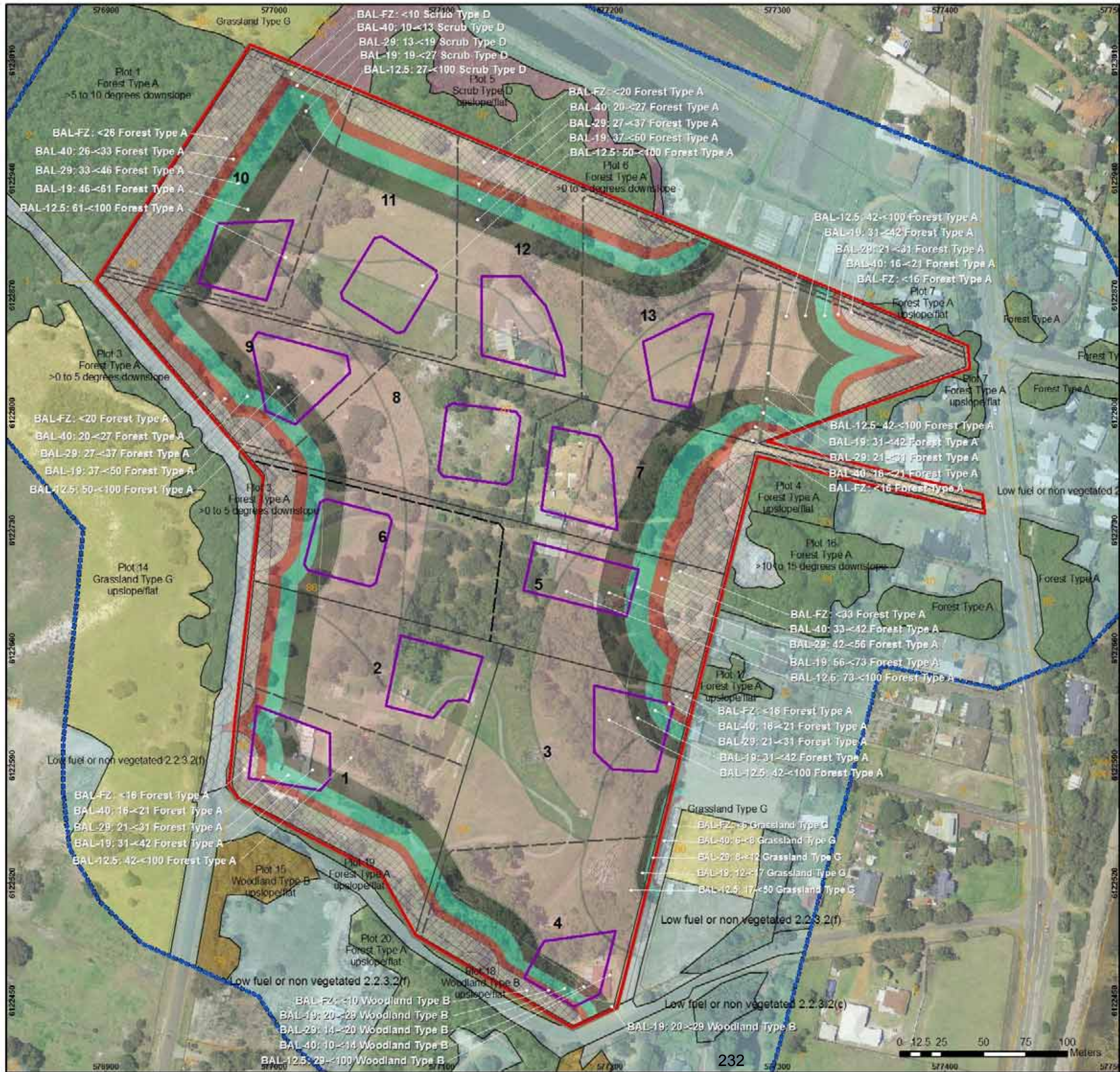
| BE on lot | Vegetation Classification | Effective Slope | Separation (m) to lot | BAL |
|-----------|--|--|-----------------------|--|
| 1 | Forest Type A (Plot 19) Woodland Type B (Plot 15) Forest Type A (Plot 3) | Flat Land Flat Land Downslope>0 to 5 deg | 0m 20m 10m | BAL 12.5 to existing house N/A overridden by Plot19 BAL 12.5 to existing house |
| 2 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 12.5 to BAL Low on BE |
| 3 | Forest Type A (Plot 17) Grassland Type G | Upslope Upslope | 0m 10m | BAL 29 to BAL 12.5 BAL 12.5 |
| 4 | Woodland Type B (Plot 18) | Upslope | 0m | BAL19 and BAL 12.5 can apply to existing house |
| 5 | Forest Type A (Plot 17) Forest Type A (Plot 16) | Upslope Downslope>10 to 15 deg | 0m 0m | N/A overridden by Plot 16 BAL 29 to BAL 12.5 can apply |
| 6 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 29 and 12.5 on BE |
| 7 | Forest Type A (Plot 16) Forest Type A (Plot 4) | Downslope>10 to 15 deg Flat Land | 0m 0m | BAL 12.5 to BAL-Low can apply BAL 12.5 to BAL-Low can apply |
| 8 | N/A | N/A | >100m | BAL – Low can apply |
| 9 | Forest Type A (Plot 3) | Downslope>0 to 5 deg | 10m | BAL 29 to BAL 12.5 can apply |
| 10 | Forest Type A (Plot 1) | Down slope>5 to 10 degrees | 0 m | BAL 12.5, BAL 19 and BAL 29 can apply to BE |
| 11 | Forest Type A (Plot 6) | Downslope>0 to 5 deg | 0m | BAL 12.5 and BAL Low to BE |
| 12 | Forest Type A (Plot 6) | Down slope>0 to 5 deg | 0m | BAL 12.5 and BAL Low to BE |
| 13 | Forest Type A (Plot 6) Forest Type A (Plot 4) | Down slope>0 to 5 degrees Flat Land | 0m 0m | BAL 12.5 and BAL Low to existing house in BE BAL 12.5 to BE |
| 14 | Forest Type A (Plot 7) | Flat Land | 0m | BAL 12.5 to 29 can apply |

COMMENTS ON BAL CALCULATIONS:

- Distances from vegetation were made based on surface fuels to edge of lot (subject site) boundary;
- BAL Calculation was worked from external boundaries of the subject site, with the assumption that all internal areas of the lots will be maintained to APZ standards by the new owners;
- Effective slopes were measured in the field using a Nikon Forestry Pro and represented on the respective plots;
- Method 1 (AS3959-2009) Simplified procedure was used for vegetation classification and BAL Assessment process;
- Vegetation was classified within 100m of the lot boundaries;
- The perimeter of the vegetation was measured using field GPS and notations on field GIS maps;
- The BAL Contour Plan was prepared by an Accredited Level 2 Bushfire Planning Practitioner (BPAD30794); and
- The BAL Contour Map has been prepared in accordance with Department of Planning (WAPC) Fact Sheet – BAL Contour Maps (Version 2, January 2016).

ASSUMPTIONS

- The lots and the Development Exclusion areas can be fuel reduced to meet APZ standards; and
- All other areas on the lots can be cleared or maintained to APZ standards as per AS3959-2009 Low fuel Exclusion 2.2.3.2 (f) and the Guidelines for Planning in Bushfire Prone Areas – APZ Standards (Appendix Four A 2.1 Version 1.1, February 2017).



REPORT ITEM DIS 116 REFERS

This Report Refers To:
 Kathryn Kinross, Bio Diverse Solutions
 Accreditation No: BPAD30794
 Valid to: Feb 2017
 Jurisdiction: Level 2 - WA

BPAD Bushfire Planning & Design Accredited Practitioner Level 2

BIO DIVERSE SOLUTIONS

Unit 5A, 209 Chester Pass Rd
 Albany, WA 6330
 Australia
 Tel: 08 9842 1575
 Fax: 08 9842 1575

Overview Map Scale 1:100,000

Legend

- Subject Site
- 100m Assessment Boundary
- Proposed Building Envelope
- Cadastre

Vegetation

- Forest Type A
- Woodland Type B
- Shrubland Type C
- Scrub Type D
- Grassland Type G
- Low fuel or non vegetated 2.2.3.2

BAL Contours

- BAL-FZ
- BAL-40
- BAL-29
- BAL-19
- BAL-12.5

Scale
 1:2,250 @ A3
 GDA MGA 94 Zone 50

Data Sources
 Aerial Imagery: SLIP Virtual Mosaic WMS Service, Landgate 2016
 Cadastre and Contours: Landgate 2016
 Overview Map: World Topographic map service, ESRI 2012

CLIENT
 Ayton Baesjou
 Lots 84, 85, 87, 98 Home and Harding Road
 Albany, WA 6330

BAL Contour Plan

| STATUS | FILE | DATE |
|--------|-------|------------|
| FINAL | AB007 | 17/02/2017 |

AS3959-2009 disclaimer: It should be borne in mind that the measures contained within this Standard (AS3959-2009) cannot guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the unpredictable nature and behaviour of fire and extreme weather condition. (AS3959, 2009)

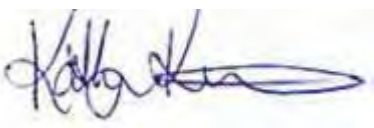
Building to AS3959-2009 is a standard primarily concerned with improving the ability of buildings in designated bushfire prone areas to better withstand attack from bushfire thus giving a measure of protection to the building occupants (until the fire front passes) as well as to the building itself.

SECTION 4: DISCLAIMER

The recommendations and measures contained in this assessment report are based on the requirements of the Australian Standards 3959-2009 – Building in Bushfire prone Areas, WAPC State Planning Policy 3.7 (WAPC, 2015), , WAPC Guidelines for Planning in Bushfire Prone Areas (WAPC, 2015), and CSIRO’s research into Bushfire behaviour. These are considered the minimum standards required to balance the protection of the proposed dwelling and occupants with the aesthetic and environmental conditions required by local, state and federal government authorities. They DO NOT guarantee that a building will not be destroyed or damaged by a bushfire. All surveys and forecasts, projections and recommendations made in this assessment report and associated with this proposed dwelling are made in good faith on the basis of the information available to the fire protection consultant at the time of assessment. The achievement of the level of implementation of fire precautions will depend amongst other things on actions of the landowner or occupiers of the land, over which the fire protection consultant has no control. Notwithstanding anything contained within, the fire consultant/s or local government authority will not, except as the law may require, be liable for any loss or other consequences (whether or not due to negligence of the fire consultant/s and the local government authority, their servants or agents) arising out of the services rendered by the fire consultant/s or local government authority.

SECTION 7: Certification

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009 (Incorporating Amendment No’s 1, 2 and 3).

SIGNED, ASSESSOR:  .. DATE:

Kathryn Kinnear, Bio Diverse Solutions
 Accredited Level 1 BAL Assessor (Accreditation No: BPAD30794)
 “Experienced” Level 2/3 Bushfire Practitioner pending accreditation.



References

Western Australian Planning Commission (WAPC) (2017) Guidelines for Planning in Bushfire Prone Areas Version 1.1. Western Australian Planning Commission and Department of Planning WA, Government of Western Australia.

Western Australian Planning Commission (WAPC) State Planning Policy 3.2 Planning in Bushfire Prone Areas. Department of Planning WA and Western Australian Planning Commission.

State Land Information Portal (SLIP) (2015 & 2016) map of Bushfire Prone Areas. Office of Bushfire Risk management (OBRM) data retrieved from:

Appendix 1: – Additional Information / Advisory Notes / Justifications Related to Assessment

Vegetation types analysed to AS3959-2009 with the following justifications:

Forest type A

- Multi-layered vegetation structure;
- Surface fuels and could reach 25-35T/ha;
- 30-70% vegetative structure/cover; and
- Eucalypt Trees 10-30m.

Woodland Type B

- Not multi-layered vegetation structure;
- Available fuels and could reach 15-25T/ha;
- 10-<30% vegetative structure/cover;
- Eucalypt Trees 8-15m.

Scrub Type D:

- Maximum vegetation heights 4m;
- Occasional tree at 5m;
- >30% vegetative cover;
- Available Fuels 25T/ha; and
- Melaleuca, pampas grass and tea tree scrubs.

Grassland Type G

- Unmanaged grasslands – not regularly slashed or grazed;
- Average heights of grasses 100-400mm;
- Dominated by grass species; and potential fuel loading 4.5t/ha; and
- <10% tree/scrub species present.

Low Fuel and non-vegetated areas (AS3959-2009 2.2.3.2):

Clause (e) – Non-vegetated areas, including waterways, roads, footpaths, buildings and rocky outcrops.

- Footpaths;
- Buildings;
- Bare ground;
- Car parks; and
- Roads

Clause (f) – Low threat vegetation including managed grassland in minimal fuel condition, maintained lawns, golf courses, maintained public reserves and parklands, vineyards, orchards, cultivated ornamental gardens, commercial nurseries, nature strips and wind breaks.

- Low fuel areas associated with managed grasslands, ornamental gardens in APZ areas of established buildings/dwellings; and
- Managed grasses <100mm in height, evidence of regular mowing.

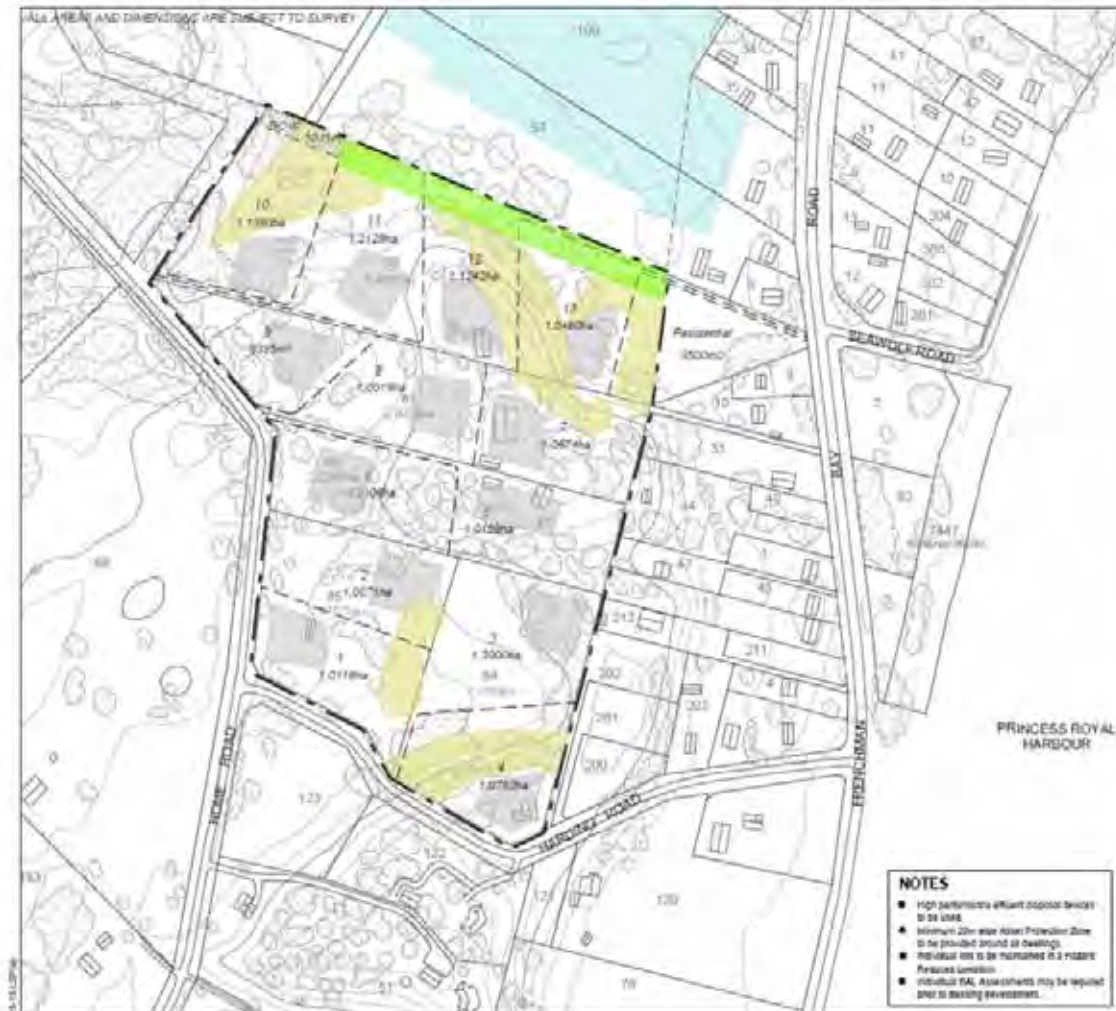
BAL Assessment undertaken by an Experienced Level 2 Bushfire Practitioner. Method 1 AS3959-2009 applied for BAL Assessment.

Appendix 2 – OBRM Mapping



(SLIP, 2015 & 2016)

Appendix 3 – Local Structure Plan



Local Structure Plan
 Frenchman Bay,
 Home & Harding Roads
 Rural Residential Area 43
 Lots 84, 85 Harding Road &
 Lots 86, Pt87 & Pt98 Home Road
 Robinson, City of Albany



| Checklist for proposal compliance and justification to the Guidelines for Planning in Bushfire Prone Areas (2015) | | | |
|--|--|---|------------------|
| BDS Project Name | BAL Contour Plan | | |
| BDS Job Number | AB007 | | |
| Date | 20/2/17 | WAPC# | N/A |
| Client name | Ayton Baesjou | Condition # | N/A |
| Bushfire Prone Area | Yes (see attached) | Mapping | Yes see attached |
| Planning proposal | WAPC subdivision | Lots created | 14 |
| 1. Bushfire Protection Criteria Acceptable Solutions as defined by Guidelines for Planning for Bushfire Prone Areas (WAPC 2015). | | | |
| Element | Compliant to Acceptable Solution– Yes/No | Justification | |
| Element 1 – Location | No | <p>Site has areas which are classified extreme and Low hazards. (Forest Type A, Woodland Type B, Scrub Type D, Grassland Type G). Proposed buildings can be in BAL 29 to BAL 12.5 zones and existing buildings in BAL 12.5 or BAL low.</p> <p>Development is deemed to meet Acceptable Solutions for Element 1.</p> | |
| Element 2 - Siting and design of development | Yes | <p>A2.1: APZ can be achieved within the individual lots and a setback associated with BAL 29 or less. Fuel can be modified within the lots to meet APZ requirements.</p> <p>Plan of subdivision is deemed to meet Acceptable Solutions for Element 2 with APZ's applied to BAL 29 or less to lots.</p> | |
| Element 3 - Vehicular access | Yes | <p>A3.1: Direct access onto Home and Harding Roads for most lots to separate destinations. A3.2 Public roads not proposed. A3.3 Cul-de-sacs not proposed. A3.4 Battle axes proposed, do not exceed 200m. A3.5 Private Driveways will meet minimum requirements. A3.6 No EAW proposed, use the existing road network. A3.7 No FSA proposed, use the existing road network. A3.8 Firebreaks compliant by current owner (s).</p> <p>Deemed to meet Acceptable Solutions for Element 3.</p> | |
| Element 4 – Water | Yes | <p>Reticulated water.</p> <p>Deemed to meet Acceptable Solutions for Element 4.</p> | |
| Bushfire Hazard Assessment required | Yes | See Vegetation Classes Plan Page 2. | |
| BAL Contour required | Yes | See BAL Contour Map Page 16. | |
| BMP required | Yes | <p>Extreme levels of fuel and slope exist within the properties. Application of APZ for BAL setbacks of BAL 29 or less is required.</p> | |

2. Recommendations based on above checklist

1. Assessment indicates that the location has bushfire hazards of Forest Type A, Scrub Type D, Woodland Type B, Grassland Type G external and internal to site. Internal areas low fuel to be maintained by the developer/land owners.
2. BAL 12.5, BAL 19, BAL-29 can be achieved in newly created lots. Existing buildings can achieve BAL 29 or less. All new buildings to be placed in the BAL 29 or less contours in BE's.
3. Brief assessment to Guidelines indicated can meet the Elements by applying Acceptable Solutions can be achieved in the subsequent stages.
4. Detailed BMP required as a condition of subdivision.
5. Notification for condition of approval - building to AS3959-2009 to apply to any new dwellings.
6. Bushfire prone area mapping is correct as per the Map of Bush Fire Prone Areas identifying land falling within, or partially within, a bush fire prone area of Western Australia as designated by the Fire and Emergency Services (FES) Commissioner dated 8/12/2015 and 21/5/2016. Updates of this mapping will occur at the discretion of the FES Commissioner and the BAL Contour Mapping is considered valid for a period of 12 months from the date of production.

Prepared by:

Kathryn Kinnear, Bio Diverse Solutions

Accredited Level 2 Bushfire Practitioner (Accreditation No: BPAD30794)



Appendix A

Land Capability Assessment

RR 43 Home & Harding Road Precinct

Land Assessment Pty Ltd

LAND CAPABILITY ASSESSMENT AND PRELIMINARY GEOTECHNICAL INVESTIGATION

- Lots 84, 85 Harding Road &
Lots 86, 87 & 98 Home Road,
Robinson, City of Albany

Prepared for

AYTON BAESJOU PLANNING

by

Land Assessment Pty Ltd



LA Report No 1512
11 January 2016

LAND ASSESSMENT PTY LTD
P.O. Box 117 SUBIACO, WA 6008
Phone: (08) 9388 2427
Email: landass@iinet.net.au

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- D Acid Sulfate Test Results
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1.0 INTRODUCTION

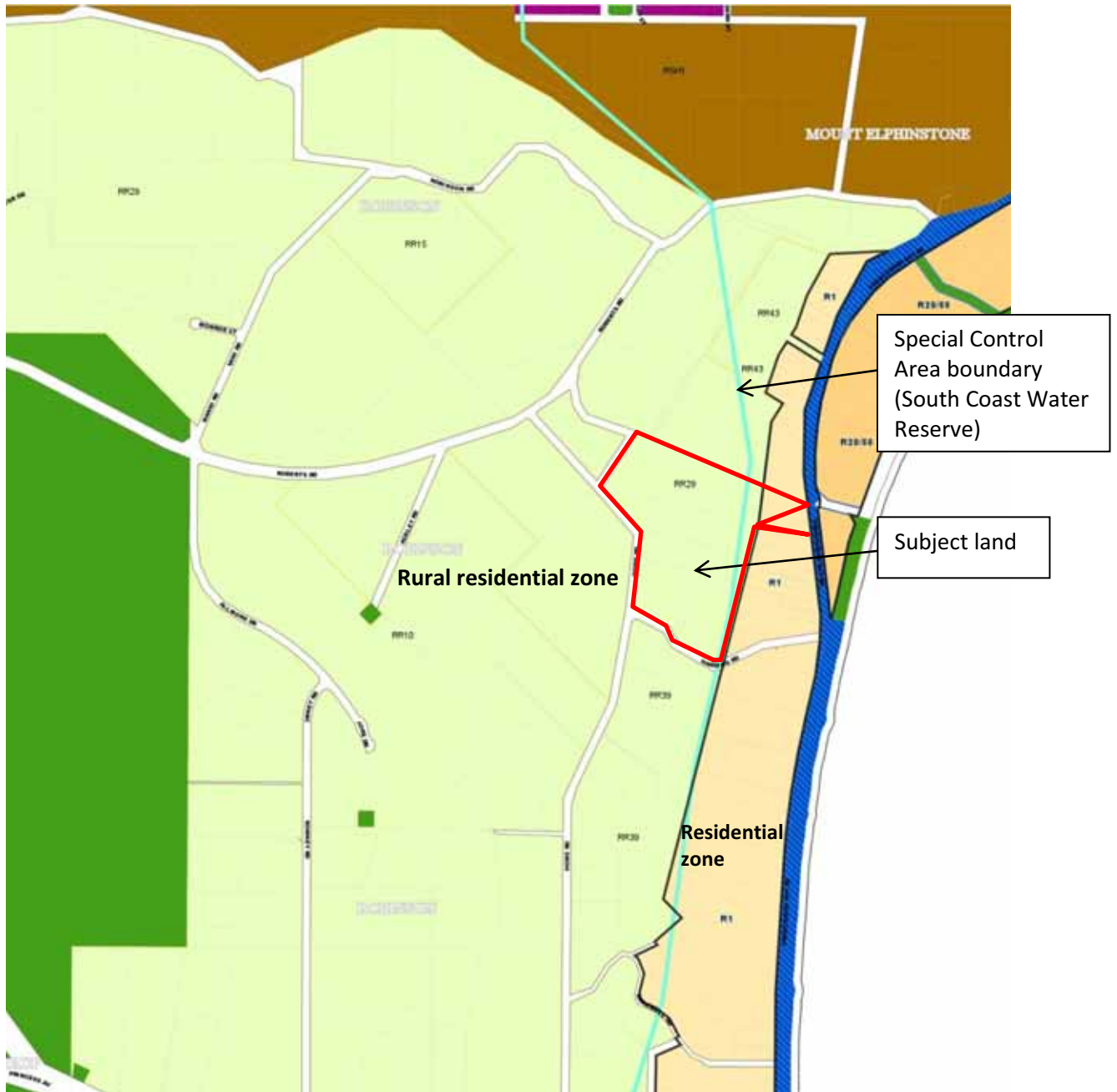
This report has been prepared at the request of Ayton Baesjou Planning to assist preparation of a Structure Plan for further subdivision of existing Lots 84, 85 Harding Road and Lots 86, 87 & 98 Home Road, within the Robinson locality of the City of Albany. Attachment A shows a base plan with site characteristics.

The subject land of approximately 15.3 ha is located on the southern side of Princess Royal Harbour, to the west of Frenchman Bay Road and approximately 3.5 km west-south-west of the Albany central business district. Figure 1 shows the study area is zoned 'Rural residential' (RR29) with the exception of the lower-lying eastern portion of Lot 98 and the battle-axe leg entrance to adjacent Lot 87, both of which are zoned 'Residential' (R1).

The land contains a mixture of cleared and vegetated areas and there is a residence on each of the five existing lots. There are no significant rural pursuits although portions of lots 85 and 98 are used for stabling and exercise of horses, and the eastern part of lot 98 is subject to grazing by goats.

As parts of the subject land are located on relatively low-lying terrain inland from Princess Royal Harbour, environmental assessment of the land needs to consider its capability to support on-site disposal of domestic effluent and wastewater, and to address the potential for further development to be affected by any Acid Sulfate Soil conditions.

FIGURE 1: LOCATION AND ZONING



Source: City of Albany Local Planning Scheme No 1 (District Scheme) Map 21.

2.0 POLICY CONTEXT

2.1 Local Planning Scheme (City of Albany 2014) and Policy

Rural Residential Zone (major portion)

It is understood from planners Ayton Baesjou that the possible minimum allowable average lot size within area RR29 is 1 ha. In relation to matters addressed by this report, relevant planning objectives for the Rural Residential Zone include;

Provide for residential and limited incidental land uses which:

- (i) Are compatible with the preservation and protection of environmentally sensitive areas such as remnant vegetation and groundwater protection areas;*
- (ii) Do not visually detract from the landscape and the visual amenity of the locality;*
- (iii) Allow for uses and developments that are fit for purpose and minimise any on-site or off-site impacts such as soil erosion, nutrient loss, drainage and potential land use conflicts.*

Residential Zone (minor portion)

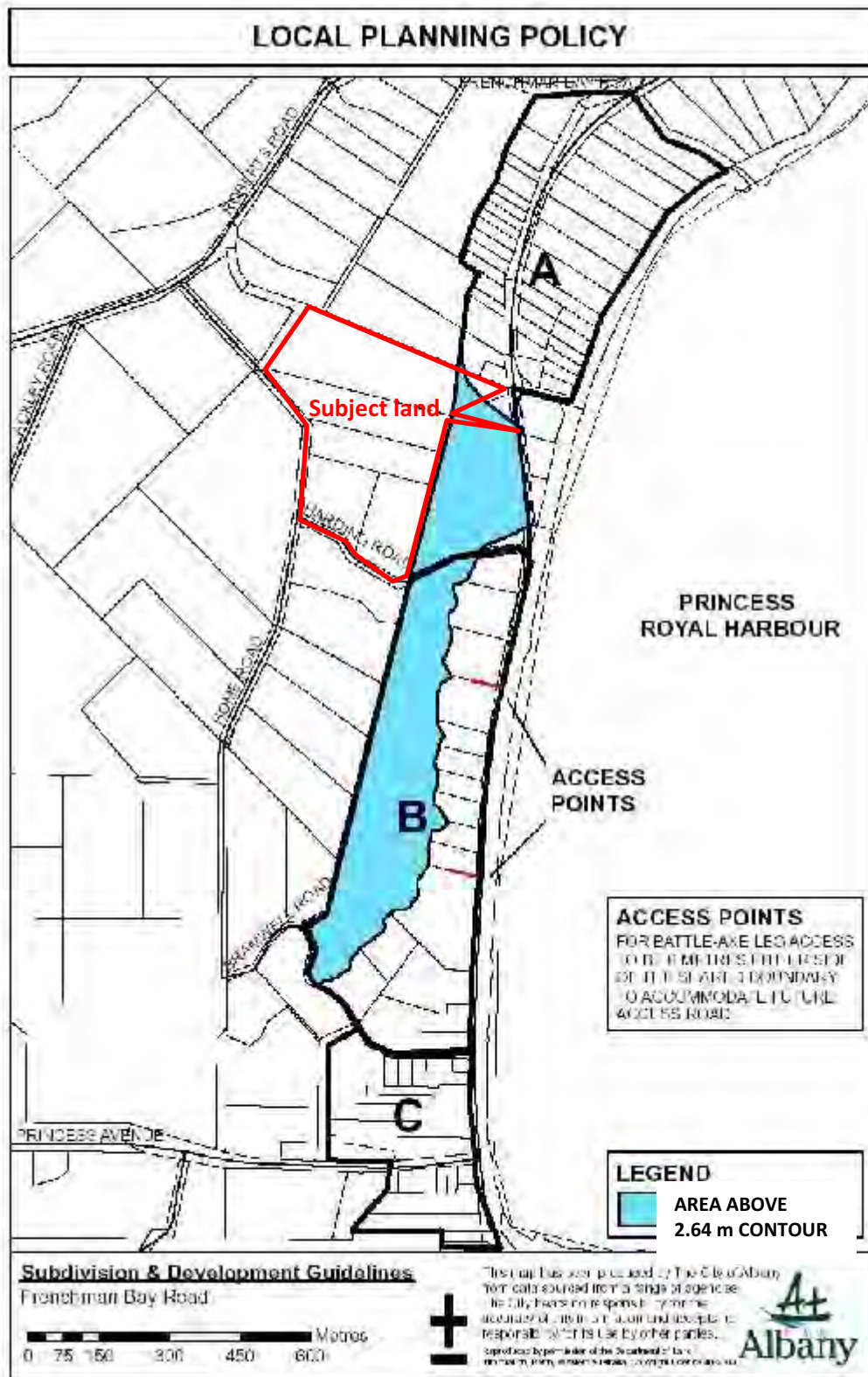
In relation to the Residential Zone portion encompassing the smaller eastern part of Lot 98, as well as the battle-axe entrance to adjacent Lot 87, it is understood from planners Ayton Baesjou that the minimum allowable lot size in this R1 designated area is 8500 sq m.

A Local Planning Policy for the Frenchman Bay Road Residential Development Area (City of Albany undated) addresses the effects of potential flooding or high ground water levels in this low lying area. It identifies this land as part of Precinct A with portions above and below a designated contour line at 2.64 m AHD (Figure 2).

The Local Planning Policy specifies that no subdivision proposals (within the Residential Zone) will be supported until such time as a conceptual local structure plan has been prepared for the portion of land above 2.64m AHD and, for the remaining lower lying area, until such time as infrastructure services (sewerage) have been extended to this locality.

For any subdivision of the Residential zoned land within the area above the 2.64m AHD contour, the policy also states that Council will require the resultant lots to utilise alternative effluent disposal systems, such as approved amended soil and/or aerobic systems.

FIGURE 2: FRENCHMAN BAY ROAD RESIDENTIAL DEVELOPMENT POLICY AREA



Source: City of Albany (undated) Policy - Frenchman Bay Road Residential Development Area

2.2 Local Planning Strategy (City of Albany 2010)

Rural residential zones are encompassed within a broad 'Rural Living' category where strategic objectives of Albany's Local Planning Strategy (ALPS) include

"In the long term encourage the efficient use of existing rural living areas, based on land capability to maximise their development potential."

The ALPS supports lot sizes from 1ha to 4ha in new Rural Residential areas subject to the provision of reticulated water and land capability analysis.

2.3 Special Control Area (South Coast Water Reserve)

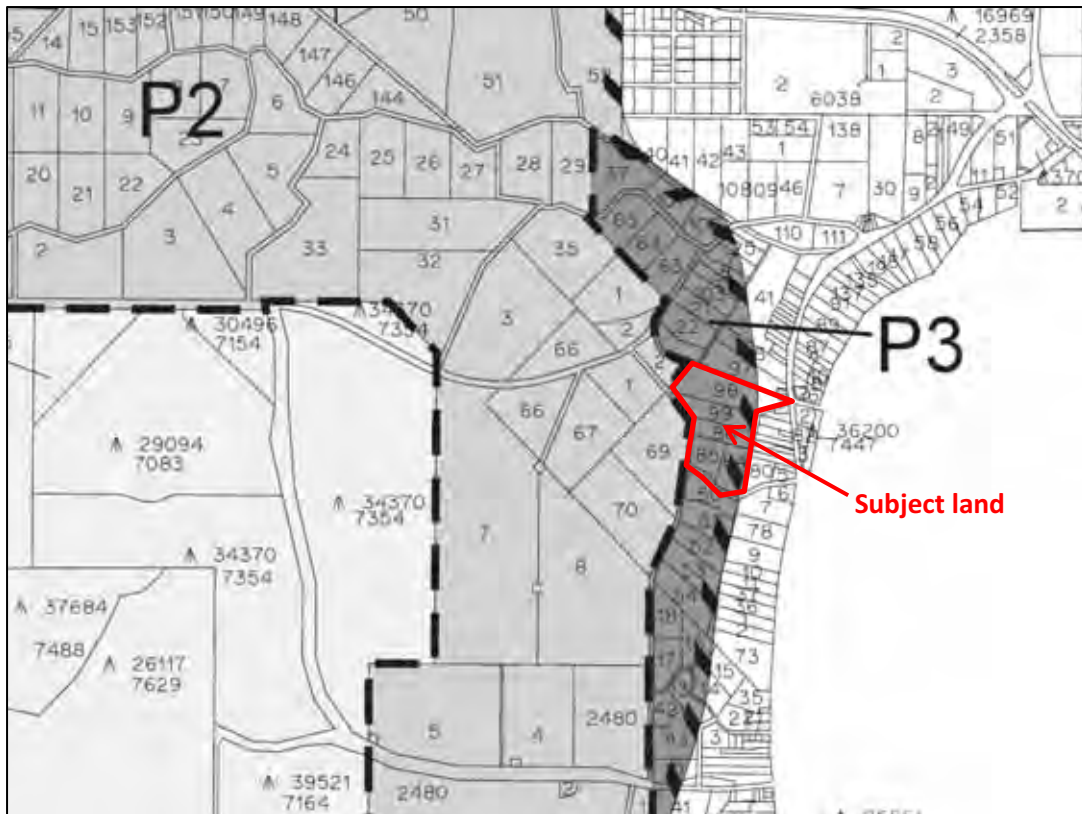
As shown in Figure 1 the major part of the subject land is designated under the Local Planning Scheme as part of a Special Control Area (SCA) for the protection of public drinking water sources.

This particular SCA covers the South Coast Water Reserve, and the Planning Scheme reflects the objectives of the *South Coast Water Reserve and Limeburners Creek Catchment Area Water Source Protection Plan* (Water and Rivers Commission 2001) where the dominant 'rural-residential' portion of subject land is designated a Priority 3 (P3) category. The lesser 'residential' zoned area closest to Frenchman Bay Road is outside of the SCA (Figure 3).

Appendix 1 of the Water Source Protection Plan outlines the (now) Department of Water's guidelines on *Land Use Compatibility in Public Drinking Water Source Areas* (Department of Environment 2004). Under a P3 category, water supply sources need to co-exist with other land uses, and rural-residential subdivision to a lot size of between 1 and 2 hectares is considered 'compatible' with water source protection subject to the following conditions;

- *An average, rather than minimum, lot size may be accepted if the proponent can demonstrate that the water quality objectives of the source protection area are met, and caveats/memorials are placed on titles of specified blocks stating that further subdivision shall not occur.*
- *Lots should only be created where land capability assessment shows that effective on-site soakage of treated wastewater can be achieved. Conditions apply to siting of wastewater disposal systems in areas with poor land drainage and/ or a shallow depth to groundwater, animals are held or fertiliser is applied. Alternative wastewater treatment systems, where approved by the Department of Health, may be accepted with ongoing maintenance requirements.*

FIGURE 3: RELEVANT PORTION OF WATER SOURCE PROTECTION PLAN



Source: Water and Rivers Commission (2001) *South Coast Water Reserve and Limeburners Creek Catchment Area Water Source Protection Plan*

2.4 On-site Sewage Management

The following policies and guideline documents have been considered in relation to the capability of the subject land to support further un-sewered development;

- *Draft Country Sewerage Policy* (Government of Western Australia 1999 - as amended to 2003).
- *Code of Practice for Onsite Sewage Management* (Department of Health 2012) Consultation Draft November 2012
- *Code of Practice for the Design, Manufacture, Installation and Operation of Aerobic Treatment Units (ATUs) Serving Single Households.* (Department of Health 2001).

These documents show the capability of land to accommodate an on-site effluent disposal system is influenced by a number of factors including system type, site drainage conditions, topography, soil depth, permeability, and depth to watertable.

Site requirements for on-site effluent disposal based on health criteria include the following specifications;

Gradient of the land - not to exceed one in five (i.e. not greater than 20% slope)

Site drainage – not subject to inundation or flooding at greater than once in 10 years

Depth to groundwater

- greater than 1.2 m from the underside of a wastewater disposal system prescribed under regulation 49 of the Regulations (*for example, leach drains associated with septic tanks*)
- as prescribed by Executive Director, Public Health for other approved wastewater disposal systems (*required separation from watertable varies with type and design of other approved systems – see DoH 2001 and DoH 2012 with the latter indicating a range 0.6 – 1.5 m is required above groundwater*).
- greater than 0.5 m from natural ground surface irrespective of type of system

Available area - unencumbered area of at least 150 m² required.

Soil depth - greater than 1.2 m depth to bedrock or impervious clay.

In addition to the requirements based on health criteria, the existing Government Sewerage Policy states; *the responsible authorities may require compliance with any special conditions of the (then) Department of Environment.*

The 'special conditions' based on environmental criteria relate to the protection of wetlands and watercourses, and are primarily expressed through setback distances as described in Appendix 2 of the *Draft Country Sewerage Policy* and reiterated in the City of Albany Local Planning Scheme (2014) as follows;

- Watercourses with permanent water – 50 metres;
- Seasonally flowing watercourses – 30 metres;
- Estuary or marine environment - 100 metres

The *Code of Practice for Onsite Sewage Management* (DoH 2012) also specifies setbacks from various types of effluent disposal systems for sub-soil or open drains as follows;

- Soil absorption systems (trenches, beds and mounds) – 6 metres;
- Dripper irrigation systems (associated with ATUs) - 3 metres
- Spray irrigation systems (associated with ATUs) - 6 metres.

Furthermore, in relation to dams or bores, the *Code of Practice for ATUs* (DoH 2001) specifies a 30 m setback where they are used or available for human or animal consumption. It has been assumed here that a 6 m setback is applicable where such water sources are precluded from human or animal consumption.

2.5 Acid Sulfate Soils

Acid sulfate soils (ASS) are wetland soils and unconsolidated sediments that contain iron sulfides which, when exposed to atmospheric oxygen in the presence of water, form sulfuric acid. This acid can mobilise or release heavy metals to the detriment of biota and built infrastructure in contact with drainage water.

ASS commonly occur in low-lying coastal lands such as marine or estuarine muds and sands that potentially underlie the surface soils within the eastern-most portion of the subject land. The City of Albany's *Local Planning Strategy* (2010) identifies lower lying portions of the Robinson locality as a high risk area.

The Western Australian Planning Commission's *Acid Sulfate Soils Planning Guidelines* (WAPC 2008) require a preliminary site assessment to be undertaken in 'at risk' areas, and wherever practicable to avoid disturbance of any subsequently identified acid sulfate soils. The potential for ASS is addressed in this report and an acid sulfate soils self-assessment form is included as Attachment E.

3.0 ENVIRONMENTAL SETTING

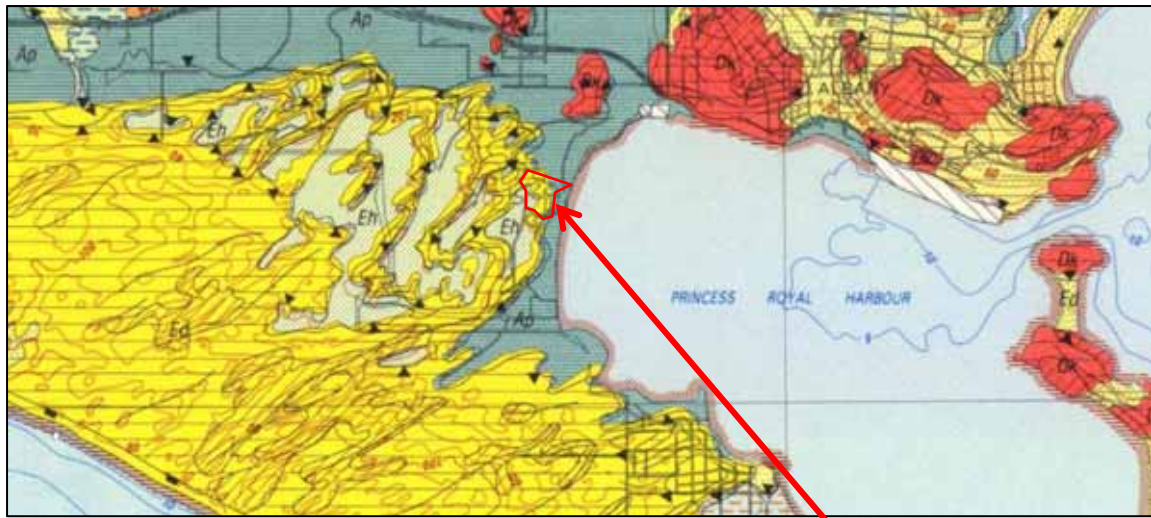
3.1 Geomorphology and Geology

The subject land predominantly encompasses an area of parabolic and nested parabolic dunes (and an associated deflation hollow) that extend over part of the estuarine plain fringing, and extending inland from, the western margins of Princess Royal Harbour (Figure 4).

The dunes are comprised of sands that are variably leached and have a core of calcareous limestone (aeolianite – LS₄) which is pale yellowish brown in colour and weakly cemented.

The underlying estuarine plain is exposed in the north eastern portion of the subject land as well as in the deflation hollow to the south west. The estuarine plain is reported by the Geological Survey of Western Australia to be overlain by predominantly siliceous, white to pale grey, alluvial sand (S₁₄) which, although being well drained (i.e. very permeable), is subject a high watertable and considered prone to flooding in part (Gozzard 1989).

FIGURE 4: GEOMORPHOLOGY & ENVIRONMENTAL GEOLOGY MAPPING



GEOMORPHOLOGICAL CLASSIFICATION

| | | | |
|-----------|---|-------------------------|--|
| Ed | Parabolic and nested parabolic dunes, Quindakup Dune System | Ar | Estuarine beach ridges |
| Ed | Parabolic and nested parabolic dunes, Spearwood Dune System | At₁₋₂ | Estuarine terraces, where identified |
| Eh | Deflation hollow | Cs | Colluvial slope |
| Er | Relict foredunes | Dk | Granitic knolls, inselbergs and bornhardts |
| Ap | Estuarine/alluvial plain | Ds | Denudational slopes in Tertiary sediments |

Subject land



GEOLOGY CLASSIFICATION

S₁₄ SAND – white to pale grey (Quaternary Alluvium)

LS₄ LIMESTONE – pale yellowish brown, weakly cemented (Quaternary dunes over estuarine deposits).

Sp₁ PEATY SAND – (Quaternary lake and swamp deposits)

Source: Gozzard (1989).

3.2 Acid Sulfate Soil Risk Mapping

Acid Sulfate Soil Risk Maps are available online through the Landgate's WA Atlas portal <https://www2.landgate.wa.gov.au/bmvf/app/waatlas/> Figure 5 shows the relevant portion of the Albany-Torbay map-sheet where the (former) Department of Environment and Conservation (DEC) has identified risk areas (in brown). The risk areas are based on the geomorphological classifications associated with the environmental geology mapping (Gozzard 1989) including the estuarine / alluvial plain areas (Ap in Figure 4).

FIGURE 5: ACID SULFATE SOIL RISK MAPPING



Source: Landgate WA Atlas recent online query.

3.3 Soil-landscape Mapping

CSIRO (Churchward et al 1988) have produced broad-scale mapping of the soils and landforms of the Albany region. This mapping has subsequently been incorporated into the soil-landscape mapping database of the Department of Agriculture and Food (DAFWA). Figure 6 shows the relevant portion, with the subject land forming part of the Meerup coastal dunes system, predominantly subsystem Mp which is described as; *Podzols over calcareous sand; banksia-bullich-yate woodland*.

* Podzols are siliceous sands with leached (light coloured) sandy topsoil over a stronger coloured sandy subsoil. Calcareous sands have an appreciable calcium carbonate content.

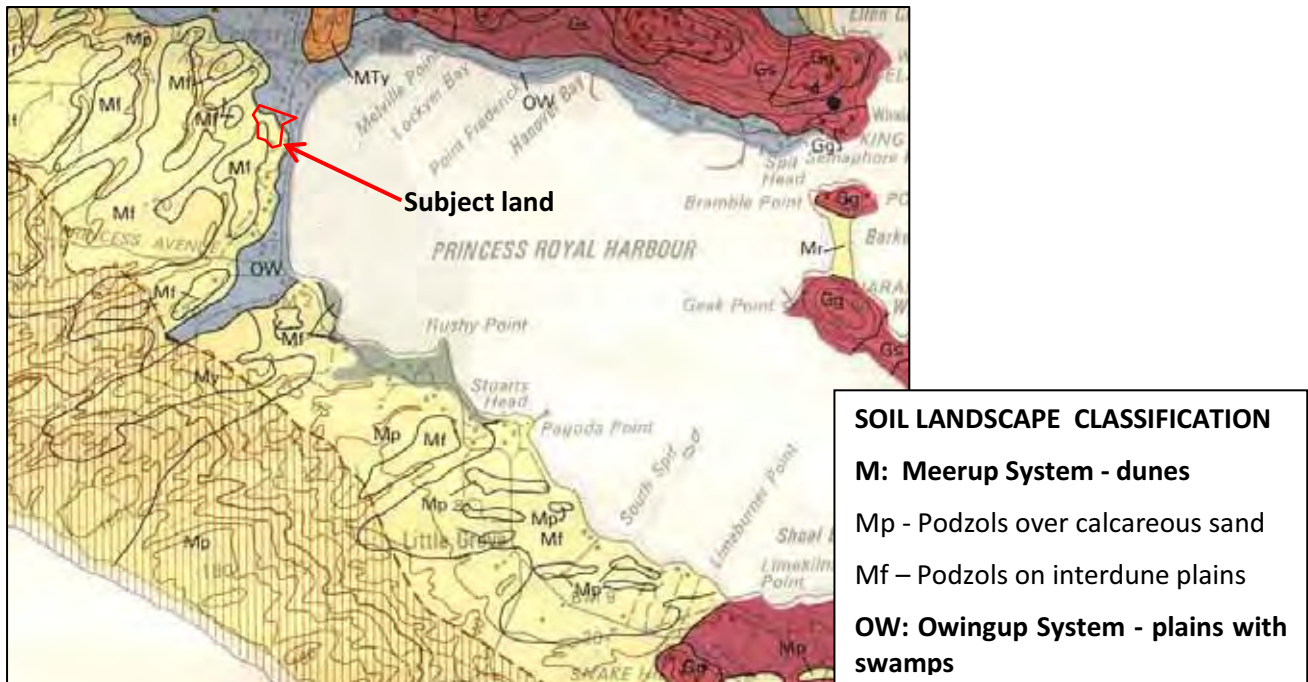


FIGURE 6: BROAD-SCALE SOIL LANDSCAPE MAPPING

Source: Churchward et al 1988).

3.4 Vegetation

As shown in the aerial image within Attachment A, the subject land contains a mixture of cleared and vegetated areas. It occurs inland from the western edge of Princess Royal Harbour although no portion is within 100 m of that waterbody.

The extent and nature of the remaining vegetation within the subject land is also indicated in Figure 7 sourced from the Albany Regional Vegetation Survey, ARVS (Sandiford and Barrett 2010).

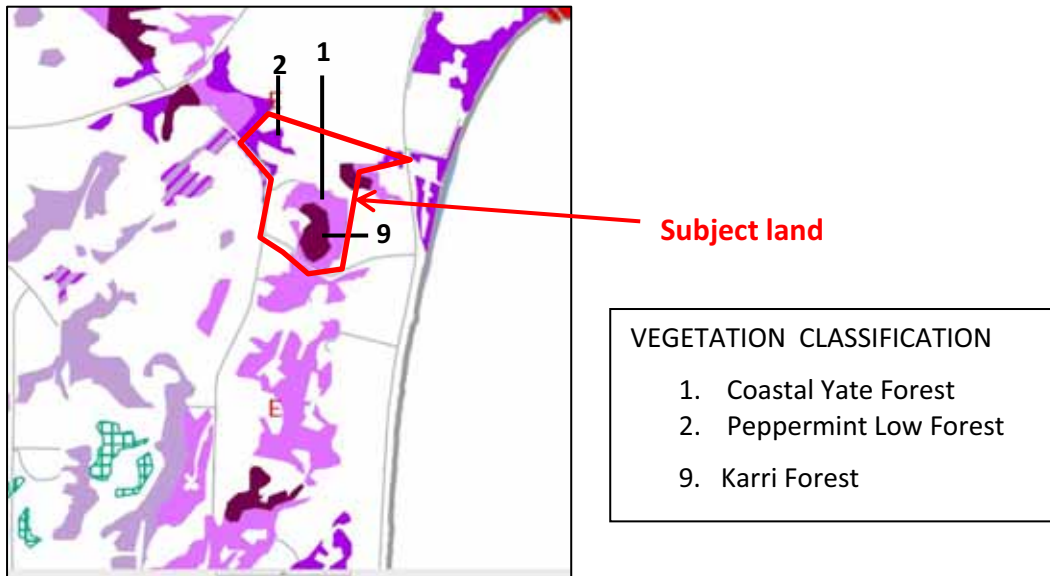
The ARVS mapping is relatively broad-scale and identifies most of the remaining vegetation within lots 84 – 86 as part of vegetation unit 1 (Coastal Yate Forest).

Vegetation unit 9 (Karri Forest) is shown as occurring on lower-lying terrain near the eastern end of Lot 87, and also within the deflation hollow in lots 84 and 85. In the latter area however examination of the aerial image in Attachment A shows that most of the Karri is no longer present.

Vegetation unit 2 (Peppermint Low Forest) is shown within the western portion of lot 98, and to a lesser extent within its central eastern portion.

Attachment B contains descriptions of each of these ARVS vegetation units.

FIGURE 7: VEGETATION MAPPING



Source: Sandiford and Barrett (2010).

Taking into account the known occurrences of these vegetation units (1, 2, and 9) within all types of reserves in the Albany region, only vegetation unit 9 (Karri Forest) might be considered in need of specific conservation measures.

Notwithstanding this, none of the three vegetation units occur at <30% of their pre-clearing extent, and further subdivision of the subject land in accordance with lot size allowed under its zoning category would not directly require any clearing of remnant vegetation to create additional house sites or property access ways.

3.5 Water Resources

Surface water

The subject land occurs inland from the margins of Princess Royal Harbour where the importance of protecting this waterbody from further addition of nutrients is recognised in both the Local Planning Scheme (City of Albany 2014) and the Albany Local Planning Strategy (City of Albany 2010) through the application of a general 100 m development setback.

As shown by the aerial image in Attachment A, all portions of the subject land occur at greater than 100 m from the margins of Princess Royal Harbour, and it contains no natural watercourses. A man-made drain does however run along the northern side of the entrance way into Lot 98 off Frenchman Bay Road. There are also a small number of wetland 'soaks' within Lots 98 and 85 that appear to have been excavated to facilitate earlier agricultural pursuits.

Groundwater

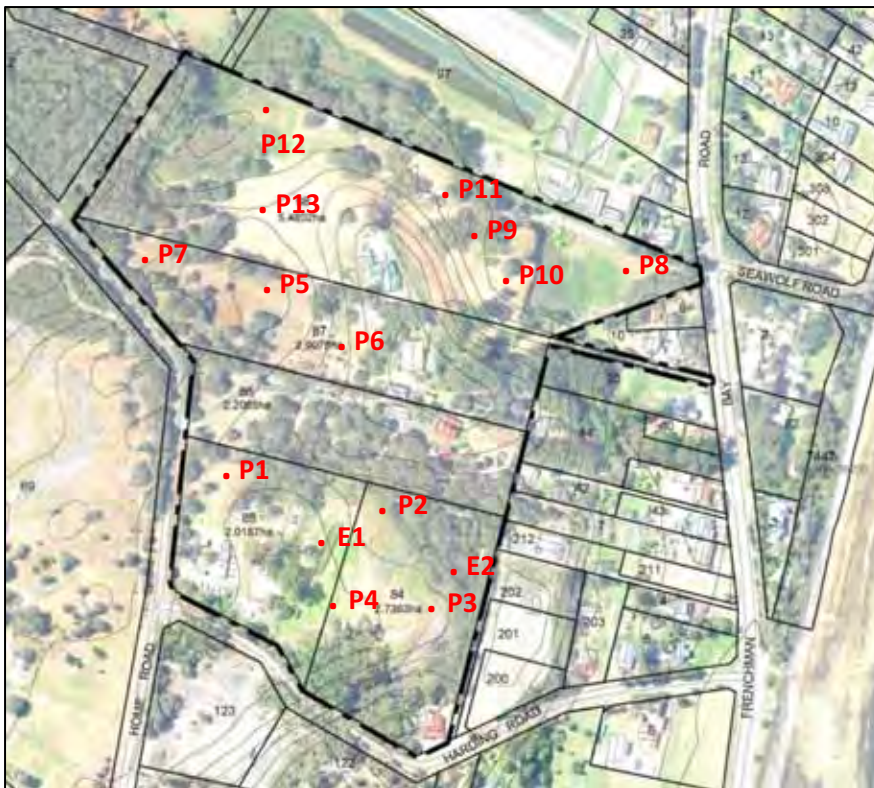
As part of Albany's water supply, groundwater is abstracted from borefields in the South Coast Water Reserve drawing from the Werillup Formation aquifer. The South Coast Water Reserve (Water and Rivers Commission 2001) encompasses most of the subject land which is part of the Priority 3 protection category for land-use planning purposes as discussed earlier in Section 2.3.

4.0 SITE ASSESSMENT

Given the broad scale of soil-landscape mapping depicted in Figure 6, some 'on-ground' variation can be expected in soil and landform conditions. Field observations are therefore required to determine the capability of the land to support unsewered development and the actual presence or otherwise of acid sulfate soil.

Site assessment was undertaken during December 7 – 9. In addition to site traverses and associated photography, the field work involved description and sampling of soils from thirteen machine - excavated pits and two existing exposed cuttings. Figure 8 shows the location of the soil sites over an aerial image.

FIGURE 8: SOIL SITE LOCATIONS



Soil profile descriptions and photographs are contained within Attachment C.

4.1 Land Unit Mapping

Method

Soil and landform conditions within the subject land were surveyed in general accordance with the methodology outlined in Department of Agriculture and Food publications (van Gool et al 2005, Wells and King 1989). This involved examination of aerial photos followed by the field survey work during December.

The soils were classified in accordance with the WA Soil Group nomenclature (Schoknecht 2002) and consideration of the earlier Great Soil Group (Stace et al 1968) classification system used by Churchward et al (1988).

Site positions were recorded using a GPS unit and slope gradients were measured using a hand-held inclinometer correlated with the 2 m interval contour mapping shown on the base plan provided by Ayton Baesjou (refer Attachment A).

Results

A site results summary is provided in Table 1. In combination with aerial photo observations, the soil profile conditions were used to refine and subdivide the broad-scale soil landscape mapping (Meerup Mp & Mf, and Owingup) into eleven component 'land units'.

The resulting more-detailed 'land unit' mapping, shown in Figure 9, depicts areas of more homogeneous landform and soil conditions compared to the earlier soil landscape mapping unit (Figure 6). It therefore provides a more accurate spatial framework on which to assess the capability of the land and the suitability of a subdivision design.

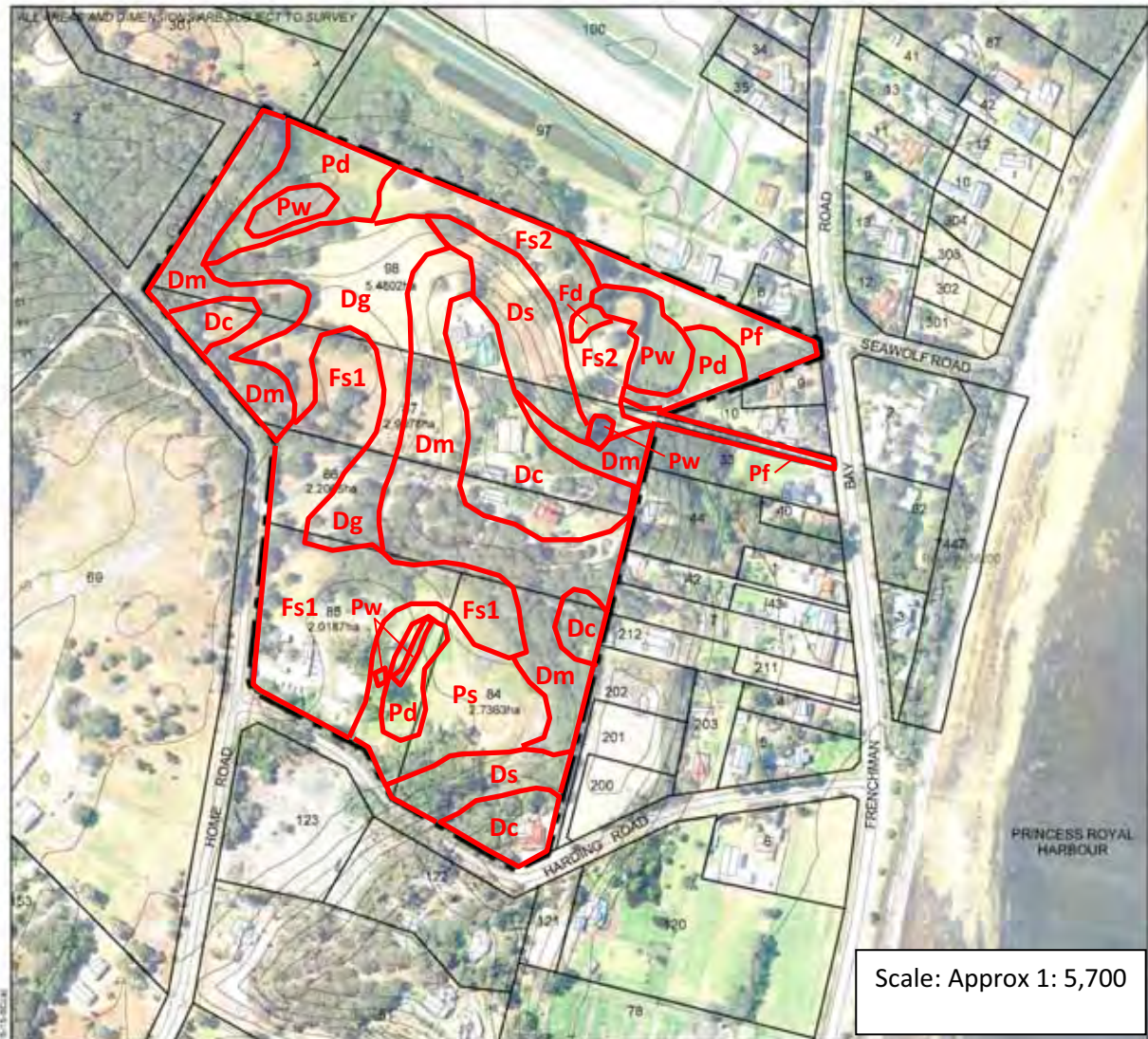
The land units are described in Table 2, and further appreciation of site conditions can be gained by reference to the property photographs which follow Table 2, and by reference to those accompanying the soil pit descriptions in Attachment C.

TABLE 1: SOIL SITE SUMMARY

| Site * | Soil Classification** | Landform |
|---------------|--|---|
| P1 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained, low sandy rise over interdunal flats. |
| P2 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained sandplain at margin of interdunal flats or deflation basin. |
| P3 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Moderately well drained depression within interdunal flat or deflation basin. |
| P4 | <i>Alkaline grey shallow sandy duplex</i> (over calcareous sand). | Imperfectly drained interdunal flat or deflation basin. |
| P5 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Well drained interdunal depression. |
| P6 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Rapidly drained sand dune (moderate sideslope). |
| P7 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Rapidly drained sand dune (gentle upper slope). |
| P8 | <i>Disturbed land</i> (<i>Semi-wet soil</i> – siliceous sand mantled by loamy soil fill material) | Imperfectly drained estuarine plain with fill material. |
| P9 | <i>Semi-wet soil</i> (calcareous organic loam over siliceous sand) | Imperfectly drained depression within sandplain margin or footslope area. |
| P10 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Gently undulating, well drained sandplain margin or footslope area. |
| P11 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Gently undulating, well drained sandplain margin or footslope area. |
| P12 | <i>Alkaline grey deep sandy duplex</i> (over calcareous sand). | Imperfectly drained estuarine plain fringing wetland area. |
| P13 | <i>Pale deep sand</i> (Podzol; deep siliceous sand). | Gently undulating upland surface of well drained dunes. |
| E1 | <i>Alkaline grey shallow loamy duplex</i> (over calcareous sand). | Imperfectly drained interdunal flat or deflation basin. |
| E2 | <i>Pale deep sand</i> (Podzol; calcareous at depth). | Rapidly drained sand dune (moderate sideslope). |

* Refer Figure 8 ** Classification in bold according to DAFWA system (Schoknecht 2002).

FIGURE 9: LAND UNIT MAPPING



Abbreviated Legend – see also Table 2

| Dunes | |
|---|--|
| Dc Crests; pale deep sands. | Dm Moderate slopes; pale deep sands. |
| Ds Steep slopes; pale deep sands. | Dg Gentle slopes; pale deep sands. |
| Footslopes (margins with plain) | |
| Fs1 Sandplain; pale deep sands (siliceous). | Fd Depression; semi-wet organic soil. |
| Fs2 Sandplain; pale deep sands (subsoils calcareous). | |
| Plains (estuarine plain and portions exposed within deflation basin) | |
| Ps Pale deep sands (subsoils calcareous). | Pd Duplex soils with clayey marl / l'stone. |
| Pf Fill; semi-wet soil (loamy fill over sand). | Pw Wetland |

TABLE 2. LAND UNIT DESCRIPTIONS

| Unit | Description |
|--|---|
| Dunes – Higher portions of the parabolic sand dunes of the Meerup system | |
| Dc | Elevated crests with flat to gentle slopes (< 10 % gradient) and well drained pale deep sands. (Podzols - deep leached grey siliceous sand with yellowish brown sandy subsoil which may be calcareous at greater than 2m depth). |
| Ds | Steeply sloping dune areas (> 20 % gradient) with well drained pale deep sands similar to unit Dc. |
| Dm | Moderately sloping dune areas (10 - 20 % gradient) with well drained pale deep sands similar to unit Dc although subsoils may be calcareous at 1 – 2 m depth. |
| Dg | Gently sloping dune areas (3 – 10 % gradient) with well drained pale deep sands similar to unit Dc although subsoils may be calcareous at 1 – 2 m depth. |
| Footslopes - Lower portions of the parabolic dunes and inter-dune sandplain of the Meerup system in proximity to adjacent areas of estuarine / alluvial plain. | |
| Fs1 | Well drained low sandy rises, inter-dune depressions or sandplain with pale deep sands (Podzols - deep grey siliceous sand with yellowish brown sandy subsoil) |
| Fs2 | Gently undulating, well drained sandplain margin or footslope with pale deep sands similar to unit Fs1 although subsoils may be calcareous at 1 – 2 m depth. |
| Fd | Imperfectly drained depression within sandplain margin or footslope with semi-wet soil (calcareous organic loam over siliceous sand). |
| Plains – Flat terrain forming part of the estuarine / alluvial plain (Owingup System) and including portions exposed by deflation hollows within the dunes (Meerup System). | |
| Ps | Moderately well drained inter-dune flat or deflation basin with pale deep sands (Podzols - deep grey siliceous sand over a very weak iron-organic hardpan and calcareous yellowish brown sandy subsoil). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pf | Imperfectly drained area of estuarine plain with semi-wet soil (siliceous sand mantled by loamy soil fill material). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pd | Imperfectly drained area of deflation basin or estuarine plain with duplex soils (alkaline sandy or loamy surfaced duplex soils with clayey marl / limestone rubble subsoil layer over buried calcareous sand). Seasonally high groundwater levels likely to be at 1 – 2 m depth. |
| Pw | Wetland depressions and associated poor- very poorly drained wet soils. |



Lot 98 – Dg gently undulating upland dune surface



Lot 97- Moderate slopes Dm and dune depression Fs1



Lot 98 – Peppermint low forest within moderately sloping dunes Dm



Lot 97 – Ds steep dune slope



Lot 98 –Ds leading to sandy footslopes Fs2



Lots 84 & 85 - Ps sandy deflation basin with wetland.



Lot 85 – Remnant area of Karri forest within unit Ps



Lot 98 – Plain unit Pf wetlands Pw and steep dunes Ds



Lot 98 – Wetland Pw within area of plain with duplex soils Pd.

4.2 Land Capability Assessment

'Land capability' is a term referring to the ability of land to support a proposed change in use with minimal risk of degradation to its soil and water resources. In this report, where the subject land is already zoned for rural-residential land use* the capability assessment relates only to the ability of the land to accommodate on-site effluent disposal systems associated with more intensive subdivision of existing lots.

The assessment is expressed in accordance with the DAFWA's five class system (ranging from very high to very low capability) as described by van Gool et al (2005) and Wells and King (1989), and is based on the methodology outlined in those publications. Site requirements relating to soil depth, permeability, and separation from groundwater and surface waterbodies under the *Draft Country Sewerage Policy* (Gov't of Western Australia 1999) and the more recent Department of Health (2001 & 2012) *Code of Practice* documents are also considered.

Figure 10 provides a qualitative assessment of the capability of the subject land based on this approach. Four colour-coded categories are shown as follows;

Green - High capability (land units Dc, Dg, Fs1 and Fs2)

- Very minor land use limitations and suitable for conventional on-site effluent disposal using septic tanks and leach drains.
- Free draining soils that are well elevated above water-table and deeper subsoil likely to have moderate nutrient retention ability (based on iron content and calcareousness) and these areas are generally not close to surface waterbodies.
- Within unit Fs2 consideration needs to be given adequate setback distance from nearby wetland areas.

Yellow - Fair capability (land units Ps, Pf and Dm).

- Dunal areas (unit Dm) are suitable for conventional on-site effluent disposal using septic tanks and leach drains, although gradients require cut and fill activity and areas left devoid of vegetative cover are subject wind erosion risk.
- Areas of the estuarine plain and deflation basin are constrained for on-site effluent disposal due to proximity to the seasonally high watertable but this can be addressed through use of partially inverted leach drains (within imported soil fill material).
- Alternative effluent disposal systems (with lesser minimum depth to water requirement, and greater nutrient retention ability) can also be used. Within the R1 residential zoned portion of the subject land, Alternative Treatment Units are mandatory under the local planning policy (City of Albany - undated) for areas above 2.64 m AHD (such as unit Ps).

* A minor portion of Lot 98 near Frenchman Bay Road is zoned Residential R1.

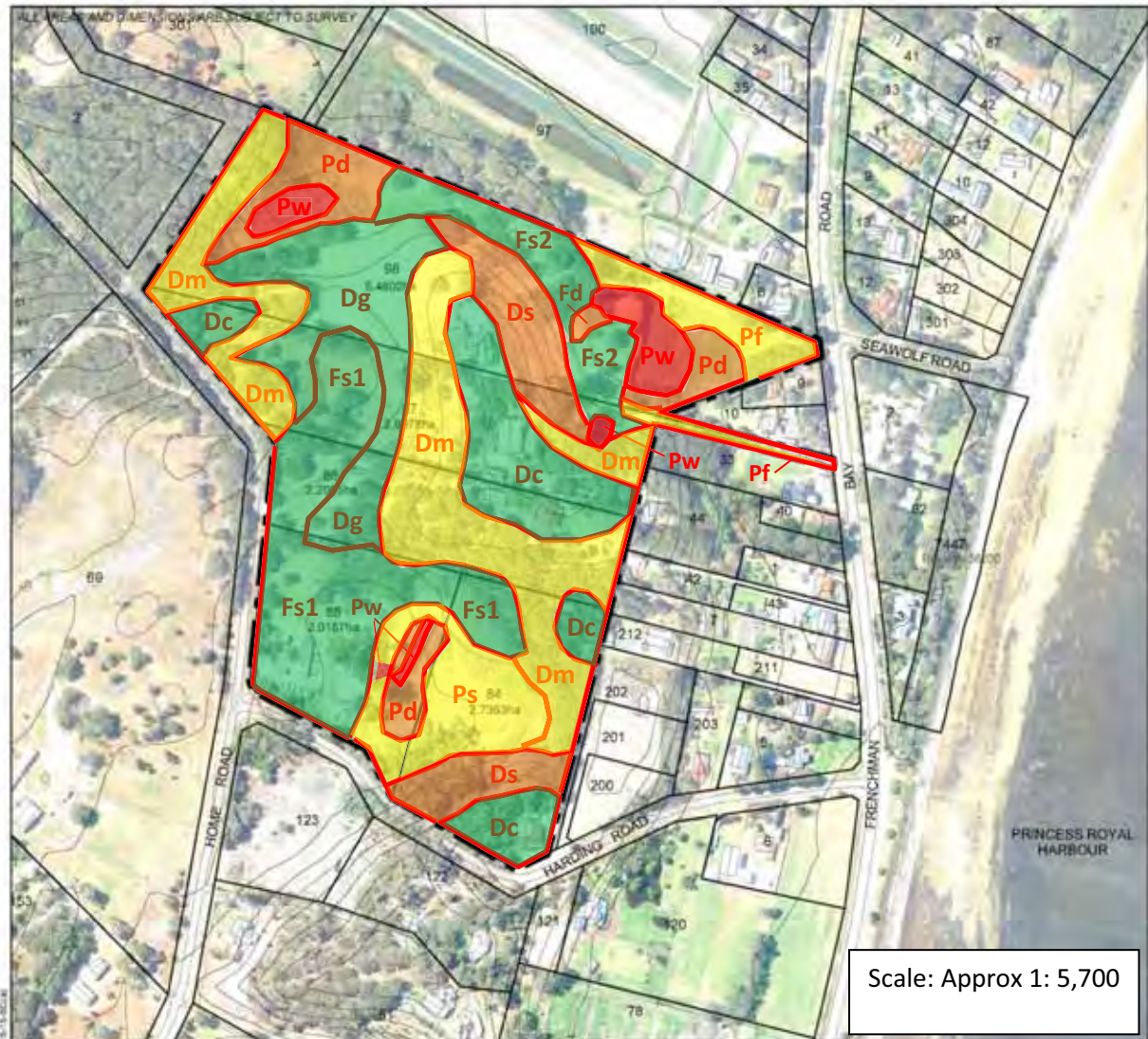
Orange - Low capability (land units Ds, Pd and Fd).

- Significant land use limitations.
- Dunal areas (Ds) are too steep for location of residences and associated on-site effluent disposal systems without significant engineering works, and areas left devoid of vegetative cover are subject to a high risk of slope instability and wind erosion.
- The duplex soil portions of the estuarine plain (Pd), and the organic soils within footslope depression area (Fd), are imperfectly drained and best avoided for on-site effluent disposal. Conventional septic tank systems would need fully inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil within unit Pd.
- Setback requirements from nearby wetland areas also need to be considered for both Pd and Fd units, and their relatively limited extent suggests they would easily, and logically, be avoided when positioning building envelopes.
- If building envelope positioning is not able to be achieved outside of these areas (Pd and Fd), use of alternative treatment units should be mandatory.

Red - Very low capability (land unit Pw)

- Prohibitive land use limitations.
- Unsuitable for any form of on-site effluent disposal given the surface expression of the watertable and likely local conservation values.
- Underlying buried sediments of the estuarine plain potentially include acid sulfate soils which pose a risk to water quality if they are exposed through attempts to lower wetland watertable levels by drainage.
- Wetland areas (including excavated soaks) require a general 50 m minimum setback for conventional septic tank / leach drain systems, however this might be reduced to 30 m if alternative treatment units are used.
- Existing drains (such as the one along the northern side of the access route from Frenchman Bay Road into Lot 98) require a minimum 6 m setback in relation to positioning of any on-site effluent disposal systems within adjacent land units., (assuming that none of the water in such will be used for livestock consumption).

FIGURE 10: LAND CAPABILITY ASSESSMENT



- High capability** – Very minor limitations. Suitable for rural-residential development with conventional septic tanks and leach drains.
- Fair capability** – Moderate limitations associated with risk of wind erosion and need for cut and fill within dunes unit Dm, and need to address proximity to seasonally high groundwater levels within ‘plain’ units where on-site effluent disposal will require partially inverted leach drains (within imported soil fill material) or the use of alternative effluent disposal systems (with lesser minimum depth to water requirement). Unit Pf is within ‘Residential zone R1 where Local Planning Policy mandates the use of alternative effluent disposal systems
- Low capability** – Significant limitations associated with steep slopes and erosion risk within dunes unit Ds, as well as either proximity to groundwater or wetlands, or slow subsoil permeability, within ‘plain’ unit Pd and footslope unit Fd. Generally areas that would be logically avoided for building envelopes.
- Very low capability** – Major limitations in terms of direct impacts of development. Unsuitable for any on-site effluent disposal given watertable exposure, and possible conservation values.

4.3 Testing for Acid Sulfate Soil

Testing of soil pH (1:5 water) for most layers of soil at each of the 13 pit and 2 existing exposure sites is reported within the description in Attachment C and shows predominantly neutral to alkaline soil pH and calcareous subsoil which is not suggestive of acid sulfate soil conditions.

Should the proposed subdivision of the land create additional residences within the estuarine plain portion where watertable proximity is a limiting factor, this can be addressed through partially inverted leach drains (Ps) or mandatory use of alternative treatment systems (as required for unit Pf) rather than any form of additional site drainage.

Notwithstanding this, two subsoil areas were sampled for Acid Sulfate Soil testing by the ChemCentre of WA. (Site 8 within estuarine plain land unit Pf, and site 9 within footslope depression land unit Fd).

The SPOCAS (complete suspension peroxide oxidation combined acidity and sulfur) analysis method was used. This is a standardized set of procedures recommended by the (former) Department of Environment and Conservation for assessing the potential for an acid sulfate soil problem in sandy soils in Western Australia.

The results are contained in Attachments D and E and show the buried soils within unit Pf are within action guideline limits and have high excess acid neutralizing capacity. However the result for the smaller area of highly organic soil within unit Fd is less clear-cut as indicated by the email correspondence copied below;

Copy of Email Communication from Chemistry Centre

*The second sample (P9) was interesting. It appears to have a significant carbon content (black colour and sample tends to float on liquid). The **TPA is very high but is not supported by the sulphide sulphur content (Spos)**. Based on the Spos value a TPA of approximately 950 moles H^+ /tonne would have been expected if all the sulphide was as FeS_2 , a strongly acid producing sulfide. I **strongly suspect the additional acidity is due to the formation of organic acids from the oxidation of carbon/ carbon compounds**.*

*I feel this is supported by the pHox which at 3.4 is certainly acidic, but not as acidic as expected from the TPA value- organic acids tend to have higher pH values than mineral acids such as H_2SO_4 as they do not readily produce hydrogen ions in solution. Non sulfidic acidity can also come from reactions of iron and manganese compounds in solution but there appeared to be very little iron or manganese in this sample. I believe it **unlikely that the non sulfidic acidity of this sample would be realized in practice** as the hydrogen peroxide oxidation used in the method is much more severe than aerial oxidation.*

It appears therefore that although the result for site 9 is not within the actionable guideline, it is considered likely to be the result of the oxidation of the atypically high soil organic matter content rather than an indication of acid sulphate soil conditions.

Notwithstanding the results which indicate Acid Sulfate Soils are not present beneath the subject land, it is relevant to point out that rural-residential development need not involve any form of deep excavation or drainage to expose or aerate previously buried waterlogged subsoils. Any impacts on the limited 'interesting area' of Fd / site 9 can also be easily avoided by appropriate positioning building envelopes.

5.0 CONCLUSIONS

5.1 Capability of the land to support more intensive subdivision

Figure 10 presents the results of land capability assessment for rural-residential development and provides a spatial framework for preparing a plan of subdivision that adequately responds to the nature and capability of the land.

Subject to the proposed pattern of subdivision enabling positioning of building envelopes for all 'new' lots within areas of either high (green) or fair (yellow) capability, the subject land is capable of supporting additional subdivision to the lot sizes permissible for the relevant land use zoning categories under the planning scheme (City of Albany 2014).

Comment in relation to on-site effluent disposal.

For the major portion of the subject land (elevated dunal areas) conventional on-site effluent disposal systems (septic tanks and leach drains) will be appropriate for unsewered rural residential lots.

Should the plan of subdivision result in building envelopes being positioned within lower-lying portions where alternative treatment units are required, setback distances (both vertical and horizontal) are applicable to land application areas for effluent disposal.

Specific setbacks, and the required area for land application of treated effluent, can vary according to the type of system (i.e. a soil absorption system such as leach drains with amended soil, or an irrigation system associated with an aerobic treatment unit, ATU) and according to the method of any irrigation (i.e. surface sprays or drippers, or subsoil drippers).

Attachment F provides a list of alternative treatment systems approved for use in Western Australia. Subject to landowner choice of type of system, installers can determine specific setback requirements (vertical and horizontal) through reference

to the manufacturer's specifications, and the Department of Health's Code of Practice documents (DoH 2001, 2012).

5.2 Potential for further development to be affected by Acid Sulfate Soil

The Albany Local planning Strategy (City of Albany 2010) addresses acid sulphate soils as a land contamination issue and seeks to; *Ensure the suitability of land uses on existing or potential contaminated sites and require hazard reduction mechanisms to prevent harm to human health or the environment.*

A search has been conducted of the State Government's contaminated sites database by planners Ayton Baesjou, who report that there are no records of contaminated sites within the subject land.

Notwithstanding the absence of any need for deep excavation works associated with further subdivision and development of the land for rural-residential use, field survey observations and some laboratory testing of subsoil material within the estuarine plain portion, indicate acid sulfate soils are not present.

An acid sulfate soils self-assessment form is included here as Attachment E should it be considered necessary to refer this report to the Department of Environment Regulation in the context of assessing potential impacts of the proposed subdivision.

5.3 Protection of remnant vegetation

The proposed intensity of further subdivision should not require any significant clearing of the remaining native vegetation within the subject land.

Outside of the parkland cleared areas, where understorey species have been already been depleted, the more intact areas of remaining vegetation occur near the property fringes and are unlikely to be considered prospective sites for building envelopes given the proposed lot sizes.

Subject to site responsive subdivision design, the ALRS objective of protecting areas of remnant vegetation would not be compromised by the development proposal.

5.4 Protection of groundwater

The Local Planning Scheme (City of Albany 2014) takes into consideration the Water Source Protection Plan for the South Coast Water Reserve (Water and Rivers Commission 2001) via designation of a special control area which extends over most of the subject land.

Subject to the plan of subdivision responding to the land capability mapping through appropriate positioning of 'new' building envelopes, and the creation of lots of equal or greater size to those determined by the Water Source Protection Priority Code (P3 – with a possible minimum average of 1 ha), the proposed intensification of rural-residential development in this area should not jeopardize groundwater protection.

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ATTACHMENT A

SITE CHARACTERISTICS – BASE PLAN

SITE CHARACTERISTICS

Lots 84, 85 Harding Road &
Lots 86, 87 & 98 Home Road
Robinson, City of Albany



LEGEND

- Subject Land
- Existing Vegetation
- Existing Buildings

N
ORIG A3
SCALE 1:3000
 0 15 30 45 60 75

15-15-SC(a)

ATTACHMENT B

ARVS VEGETATION UNIT DESCRIPTIONS

1 Coastal Yate Woodland.

No. of relevés 7 **Mean spp. richness** 11.7 **Area** 419 ha **% of Rem. Veg.** 0.9 **% in IUCN Reserve 1-IV** 21.4

Description

Coastal Yate Woodland is found along the coastal fringe in protected swales, slopes, crests and flats on grey sand. It is dominated by an upper canopy of *Eucalyptus cornuta* over a sparse secondary tree stratum of *Agonis flexuosa*. There is usually one shrub layer, a tall open scrub or open heath and common dominant shrubs include *Hibbertia furfuracea*, *Bossiaea linophylla* and *Spyridium globulosum*. Ground cover is frequently sparse and there is a high degree of variability in sedge dominance with *Desmocladius flexuosus* most common.

This unit is one of four units that equate to "Scrub heath on dunes" as mapped by Beard (1979), and described as "Peppermint Low Woodland and Scrub-heath". The other units are Peppermint Low Forest (2), Coastal Heath (3) and Limestone Coastal Heath (4). This unit shares many species with Peppermint Low Forest (2), with which it merges, but differs in the absence of *Adenanthos sericeus* and presence of *Hibbertia furfuracea*. It is usually found in more protected and damper sites. In some areas this unit merges with Karri Forest (9).

Comments

Infestations of **Dipogon lignosus* (Dolichos Pea) and **Zantedeschia aethiopicum* (Arum Lily) were observed within this unit in the Little Grove and Robinson areas. This unit is largely restricted to coastal and near coastal consolidated dunes with occasional occurrences along near coastal drainage lines, though one site near Bornholm was recorded on a hill top. The distribution of dominant understorey species suggest that this unit reaches its eastern limit just east of the survey area (the eastern limit of *Hibbertia furfuracea* and *Hardenbergia comptoniana*) and it probably extends to the west along the coastal fringe of the Warren Botanical District. Direct comparison with units described in the Walpole region by Wardell-Johnson and Williams (1996) is difficult, though it is likely that this unit falls within their community group A4.

This unit is naturally restricted to the coastal fringe. The only other *Eucalyptus cornuta* dominated unit within the survey area, Unit 24, is restricted to granite outcrops.

Floristic Summary

| Lifeform | %cover | Species |
|---------------|--------|---|
| Trees 10-30m | S-M | <i>Eucalyptus cornuta</i> |
| Trees <10m | V | <i>Agonis flexuosa</i> |
| Shrubs >2m | M | <i>Hibbertia furfuracea</i> , <i>Bossiaea linophylla</i> , <i>Spyridium globulosum</i> |
| Shrubs 1-2m | | <i>Leucopogon obovatus</i> , <i>Hibbertia cuneiformis</i> , <i>Pimelea clavata</i> |
| Shrubs <1m | | <i>Tremandra stelligera</i> , <i>Rhagodia baccata</i> |
| Sedges/rushes | Nil -V | <i>Desmocladius flexuosus</i> , <i>Lepidosperma densiflora</i> , <i>Lepidosperma densiflora</i> forma proliferous, <i>Lepidosperma effusum</i> , <i>Lepidosperma effusum</i> forma small, <i>Lepidosperma gladiatum</i> , <i>Ficinia nodosa</i> |
| Herbs | | <i>Billardiera fusiformis</i> , <i>Clematis pubescens</i> , <i>Stylidium adnatum</i> , <i>Opercularia hispidula</i> , <i>Hardenbergia comptoniana</i> |
| Grasses | | <i>Tetrarrhena laevis</i> |

Key identifying Features

- Canopy of *Eucalyptus cornuta* above *Agonis flexuosa* and shrubland dominated by *Hibbertia furfuracea*, *Bossiaea linophylla* and *Spyridium globulosum*.
- Coastal distribution on sand.

Conservation species None recorded

2 Peppermint Low Forest

No. of relevés 10 **Mean spp. richness** 10 **Area** 1232 ha **% of Rem. Veg.** 2.8 **% in IUCN Reserve 1-IV** 23.0

Description

Peppermint Low Forest is restricted to the coastal dune system where it commonly occurs in swales and flats. A dense canopy of *Agonis flexuosa* (Peppermint) is characteristic of this unit with the structure varying from a closed heath on exposed coastal slopes to a low closed forest in swales with shrub species often sub or co-dominant in exposed areas. A tall shrubland of *Spyridium globulosum*, *Adenanthos sericeus*, *Bossiaea linophylla* and *Leucopogon obovatus* is usually present over an open or closed sedgeland with *Rhagodia baccata*, *Hardenbergia comptoniana* and *Clematis pubescens* common.

This unit forms a mosaic with Coastal Heath (3), Limestone Coastal Heath (5), Coastal *Banksia ilicifolia*/Peppermint Low Woodland (4) and Coastal Yate Woodland (1) and appears to be the climax of Coastal Heath (Beard 1979).

Three sub-units are described:

2a Peppermint Low Forest occurs on coastal dunes and swales and is described above.

2b Peppermint/Eucalyptus megacarpa Low Forest occurs along minor drainage lines on lower slopes of the coastal dunes. *Eucalyptus megacarpa* is co-dominant in the upper strata and *Lepidosperma effusum* and *Pteridium esculentum* are common.

2c Peppermint Low Forest/Lepidosperma gladiatum Sedgeland occurs in the swale behind the fore dune and occasionally in deep valleys on the inland dunes. *Lepidosperma gladiatum*, *Desmocladius flexuosus*, *Rhagodia baccata* and *Hardenbergia comptoniana* are prominent understorey species with *Hibbertia cuneiformis* and *Pimelea clavata* common shrubs.

Comments

This unit also includes *Agonis flexuosa* thickets that have invaded other units. In the Little Grove and Big Grove area, *A. flexuosa* is invading what was once *Banksia littoralis*/Woodland *Melaleuca incana* Shrubland (44) as indicated by the dead and dying *Banksia littoralis* and the presence of scattered species indicative of winter wet areas such as *Villarsia parnassiifolia*, *Sphenotoma gracilis* and *Melaleuca incana* under dense canopies of *A. flexuosa*. This invasion suggests that a significant and prolonged lowering of the water table may have occurred. Anecdotal evidence indicates that large areas of Little Grove and Big Grove were more swampy forty to fifty years ago (T. Allen, pers. comm.).

Many infestations of **Acacia longifolia* were observed within this unit, particularly in the Little Grove area. *Agonis flexuosa* occurs as a lower tree stratum or as a co-dominant in a number units (1, 4, 9 and 10) and where this species occurs as stands over pasture, identification of the unit has been based on the nearest intact vegetation.

Peppermint Low Forest is common along the south west coastline though those with *Adenanthos sericeus* in the understorey (2a) are restricted to areas around Albany as this species only occurs from the Nullaki Peninsula to Waychinnicup with an outlying population at Warriup. *Eucalyptus megacarpa* and *Hardenbergia comptoniana* reach their eastern limit near Mt Manypeaks and Cheyne Beach respectively (DEC 2009).

Floristic Summary

| Lifeform | %cover | Species |
|------------------|--------|---|
| Mallee/Tree <8m | M-D | <i>Agonis flexuosa</i> +/- <i>Eucalyptus megacarpa</i> , +/- <i>Hakea oleifolia</i> |
| Shrubs 1m to >2m | S | <i>Spyridium globulosum</i> , <i>Adenanthos sericeus</i> , <i>Bossiaea linophylla</i> , <i>Leucopogon obovatus</i> , <i>Hibbertia cuneiformis</i> |
| Shrubs 0.5-1m | V | <i>Rhagodia baccata</i> |
| Sedges/rushes | V-D | <i>Desmocladius flexuosus</i> , <i>Lepidosperma densiflora</i> forma proliferous, <i>Lepidosperma gladiatum</i> , <i>Lepidosperma effusum</i> |
| Herbs | V | <i>Hardenbergia comptoniana</i> , <i>Clematis pubescens</i> , <i>Opercularia hispidula</i> , <i>Billardiera fusiformis</i> |

Key identifying Features

- Thickets with *Agonis flexuosa* dominant or co-dominant.
- Occurs on sand in coastal areas

Conservation species None recorded

9 Karri Forest

No. of relevés 11 **Mean spp. richness** 10.6 **Area** 885 ha **% of Rem. Veg.** 2.0 **% in IUCN Reserve 1-IV** 1.6

Description

Karri Forest is found in the southern and south western areas of the survey area with isolated pockets along the north-west boundary. It is distinguished by the dominance of *Eucalyptus diversicolor* (Karri) trees in the canopy. Three sub-units are described, differing in floristic composition, landform and soil type and distribution. However, two of these sub-units were poorly sampled and further survey is required to clarify floristic differences.

Sub-units:

9a Coastal Karri Forest is found in a scattered band on the flats and lower slopes north of the coastal hills from Goode Beach to Torbay Townsite, with isolated pockets occurring south of Manypeaks. It often occurs on grey sand often overlying limestone and typically it is an open forest, occasionally reaching > 30 m in height. *Eucalyptus cornuta* is often a sub-dominant canopy species and *Agonis flexuosa* forms an open secondary tree stratum. The understorey shrubs vary from a closed tall scrub on very moist sites to a tall open scrub or open heath over open sedgeland. Common species include *Chorilaena quercifolia*, *Trymalium odoratissimum*, *Thomasia solanacea*, *Hibbertia furfuracea*, *Bossiaea linophylla*, *Tremandra stelligera*, *Lepidosperma effusum*, *Ficinia nodosa*, *Gahnia sclerioides* and *Desmocladius flexuosus*. The climbers *Hardenbergia comptoniana*, *Clematis pubescens* and *Billardiera variifolia* are frequently prominent. This sub-unit often grades into *Eucalyptus cornuta* Open Forest on drier sites.

9b Karri Tall Open Forest

This sub-unit is found on the deep red Karri loams on the hills around Torbay, Bornholm and Torbay townsite. This unit was poorly sampled (1 relevé) and is differentiated from the Coastal Karri sub-unit by the presence and/or dominance of *Allocasuarina decussata* and/or *Acacia pentadenia* in the lower tree/upper shrub strata and the absence of *Thomasia solanacea* and *Templetonia retusa*. This sub-unit occasionally merges with sub-unit 9a on the lower slopes/flats of hills near Bornholm and Torbay townsite where colluvial sands occur. An unsurveyed pocket in the Goode Beach area also appears transitional with subunit 9a with *Acacia pentadenia* present (WA Herbarium records). Other common species include *Agonis flexuosa*, *Hibbertia furfuracea*, *Trymalium odoratissimum* and *Bossiaea linophylla*. This unit often occurs upslope of Marri/Jarra Forest/Peppermint Woodland (10) and appears to have close floristic affinities with Karri forests in the Denmark Walpole/Manjimup area with *Allocasuarina decussata* and *Acacia pentadenia* in the understorey.

9c Redmond Karri Forest

This sub-unit was recorded on the north west boundary of the survey area along a broad valley on skeletal soils overlying a very dark exposed lateritic rock. All areas had been recently burnt (2002) and post fire opportunistic species including *Rulingia corylifolia*, *Acacia pulchella* and *Opercularia hispidula* were dominant beneath a *Bossiaea linophylla* Tall Open Scrub. Other species present were *Leucopogon obovatus*, *Cyathochaeta avenacea*, *Ficinia nodosa*, *Opercularia hispidula*, *Pteridium esculentum*, *Xanthosia candida* and *Tetrarrhena laevis*.

Comments

The Karri forests observed on several previously cleared remnants on the plains south of Manypeaks have regenerated well following fencing and the presence of *Chorilaena quercifolia* and *Templetonia retusa* suggest they belong to sub-unit 9a.

Karri forests are common throughout the Warren Botanical District with the eastern limit occurring on the slopes of Mt Manypeaks just east of the survey area. An outlying population occurs in the Porongurup Range north of the context area. The floristic similarity of Karri forests outside the study area to the sub-units recorded here has not been assessed. The occurrence of sub-unit 9c on skeletal dark lateritic soil may be unusual as Karri forests are typically found on deep loam or sand.

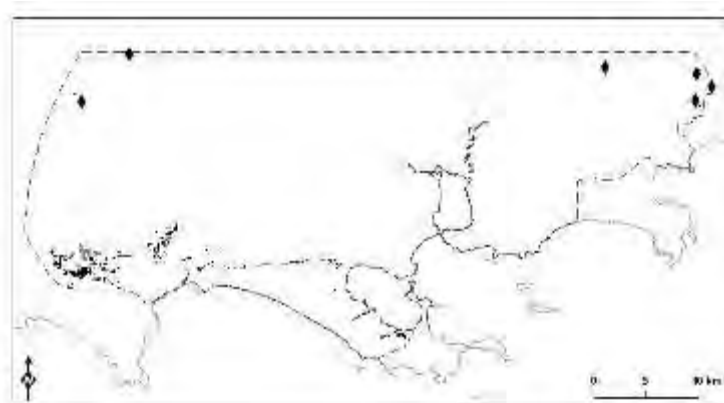
Floristic Summary

| Lifeform | %cover | Species |
|---------------|--------|--|
| Trees 10-30m | M | <i>Eucalyptus diversicolor</i> , <i>Eucalyptus cornuta</i> |
| Trees <10 m | V | <i>Agonis flexuosa</i> , <i>Allocasuarina decussata</i> , <i>Hakea oleifolia</i> |
| Shrubs >2m | S-M | <i>Trymalium odoratissimum</i> , <i>Chorilaena quercifolia</i> , <i>Thomasia solanacea</i> , <i>Hibbertia furfuracea</i> , <i>Bossiaea linophylla</i> , <i>Templetonia retusa</i> , <i>Acacia pentadenia</i> , <i>Rulingia corylifolia</i> |
| Shrubs <2m | V | <i>Acacia alata</i> , <i>Tremandra stelligera</i> |
| Sedges/rushes | V | <i>Lepidosperma effusum</i> , <i>Ficinia nodosa</i> , <i>Desmocladus flexuosus</i> , <i>Lepidosperma squamatum</i> , <i>Lepidosperma densiflora</i> |
| Herbs | V | <i>Opercularia hispidula</i> , <i>Hardenbergia comptoniana</i> , <i>Clematis pubescens</i> , <i>Billardiera variifolia</i> , <i>Lagenophora huegelii</i> , <i>Pteridium esculentum</i> |
| Grasses | | <i>Tetrarrhena laevis</i> , <i>Poa porphyroclados</i> , <i>Microlaena stipoides</i> |

Key identifying Features



- Canopy of *Eucalyptus diversicolor* (Karri).



Conservation species *Thomasia solanacea* P3, *Gahnia sclerioides* P3



Unit 9 Karri Forest

ATTACHMENT C
SOIL PROFILE DESCRIPTIONS AND
PHOTOGRAPHS

| <p>Site Number: Pit 1 Lot 85 50 H 577015 m E; 6122659 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf</p> | <p>Land unit: Fs1</p> | | | | | | | | | | |
|---|---|--|------------|-------------|--------|---|---------|--|----------|--|----------|---|
|  | | <p>Landform: Well drained, low sandy rise (up to 6 % gradient) over interdunal flats.</p> | | | | | | | | | | |
|  | <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> <table border="1"> <thead> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0 – 45</td> <td>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</td> </tr> <tr> <td>45 - 90</td> <td>Dark grey (10YR 4/1) sand, dry; clear boundary to;</td> </tr> <tr> <td>90 - 140</td> <td>Light grey (10YR 7/1) sand, dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to;</td> </tr> <tr> <td>140-180+</td> <td>Dark brown (7.5YR 3/3) fine sand, (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m).</td> </tr> </tbody> </table> | | Depth (cm) | Description | 0 – 45 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | 45 - 90 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | 90 - 140 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | 140-180+ | Dark brown (7.5YR 3/3) fine sand , (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m). |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 – 45 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | | | | | | | | | | | |
| 45 - 90 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | | | | | | | | | | | |
| 90 - 140 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | | | | | | | | | | | |
| 140-180+ | Dark brown (7.5YR 3/3) fine sand , (very weak pan), dry, slightly acid (pH 6.2), non-saline (ECe 77 mS/m). | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have limited nutrient retention ability but site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

| Site Number: Pit 2 Lot 84 50 H 577130 m E; 6122649 m N | DAFWA Soil landscape mapping: Meerup flats Mf | Land unit: Fs1 | | | | | | | | | | |
|--|--|---|------------|-------------|--------|---|---------|--|---------|--|-----------|--|
|  | | Landform: Well drained sandplain (< 2% gradient) at margin of interdunal flats or deflation basin. | | | | | | | | | | |
|  | | WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol) | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0 - 25</td> <td>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</td> </tr> <tr> <td style="text-align: center;">25 - 50</td> <td>Dark grey (10YR 4/1) sand, dry; clear boundary to;</td> </tr> <tr> <td style="text-align: center;">50 - 95</td> <td>Light grey (10YR 7/1) sand, dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to;</td> </tr> <tr> <td style="text-align: center;">95 – 180+</td> <td>Dark brown (7.5YR 3/3) fine sand, dry.</td> </tr> </tbody> </table> | Depth (cm) | Description | 0 - 25 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | 25 - 50 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | 50 - 95 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | 95 – 180+ | Dark brown (7.5YR 3/3) fine sand , dry. |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 - 25 | Very dark grey (10YR 3/1) loamy sand , dry; clear boundary to; | | | | | | | | | | | |
| 25 - 50 | Dark grey (10YR 4/1) sand , dry; clear boundary to; | | | | | | | | | | | |
| 50 - 95 | Light grey (10YR 7/1) sand , dry, neutral (pH 7.3), non-saline (ECe 60 mS/m) clear boundary to; | | | | | | | | | | | |
| 95 – 180+ | Dark brown (7.5YR 3/3) fine sand , dry. | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 2.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

| | | |
|--|---|-----------------------------|
| <p>Site Number: Pit 3 Lot 84 50 H 577188 m E; 6122562 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Ps</p> |
|--|---|-----------------------------|





Landform: Moderately well drained depression within interdunal flat or deflation basin.



| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth).</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 – 10</p> | <p>Very dark grey (10YR 3/1) loamy sand, dry; clear boundary to;</p> |
| <p>10 – 25</p> | <p>Dark grey (10YR 4/1) sand, dry; clear boundary to;</p> |
| <p>25 – 95</p> | <p>Light grey (10YR 7/1) sand, dry, clear boundary to;</p> |
| <p>95 – 155</p> | <p>Dark brown (7.5YR 3/3) sand, (very weak pan), calcareous, dry, gradual boundary to;</p> |
| <p>155-180+</p> | <p>Dark brown (7.5YR 3/3) sand, calcareous, moist, moderately alkaline (pH 8.0), moderately saline (ECe 474 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: 180 cm.

Comment: Suitable for conventional on-site effluent disposal subject to use of partially inverted leach drains (within imported soil fill material) to achieve adequate separation from groundwater. Also suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).

| <p>Site Number: Pit 4 Lot 85 50 H 577095 m E; 6122557 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Pd</p> | | | | | | | | | | | | |
|--|---|--|------------|-------------|--------|--|---------|---|---------|--|----------|---|----------|--|
|  | | <p>Landform: Imperfectly drained interdunal flat (partly obscured at photo left) or deflation basin.</p> | | | | | | | | | | | | |
|  | <p>WA Soil Group: <i>Alkaline grey shallow sandy duplex</i> - over buried calcareous sand.</p> <table border="1"> <thead> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0 - 25</td> <td>Very dark grey (10YR 3/1) loamy sand, calcareous, slightly moist; clear boundary to;</td> </tr> <tr> <td>25 – 65</td> <td>Light brownish grey (10YR 6/2) Clay loam, sandy, calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to;</td> </tr> <tr> <td>65 - 80</td> <td>Light yellowish brown (10YR 6/4) sand, with few black mottles (cutans), calcareous; slightly moist; gradual boundary to;</td> </tr> <tr> <td>80 - 180</td> <td>Greyish brown (10YR 5/2) sand, calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to;</td> </tr> <tr> <td>180-200+</td> <td>Very dark greyish brown (10YR 3/2) clayey sand, calcareous, moist.</td> </tr> </tbody> </table> | | Depth (cm) | Description | 0 - 25 | Very dark grey (10YR 3/1) loamy sand , calcareous, slightly moist; clear boundary to; | 25 – 65 | Light brownish grey (10YR 6/2) Clay loam, sandy , calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to; | 65 - 80 | Light yellowish brown (10YR 6/4) sand , with few black mottles (cutans), calcareous; slightly moist; gradual boundary to; | 80 - 180 | Greyish brown (10YR 5/2) sand , calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to; | 180-200+ | Very dark greyish brown (10YR 3/2) clayey sand , calcareous, moist. |
| Depth (cm) | Description | | | | | | | | | | | | | |
| 0 - 25 | Very dark grey (10YR 3/1) loamy sand , calcareous, slightly moist; clear boundary to; | | | | | | | | | | | | | |
| 25 – 65 | Light brownish grey (10YR 6/2) Clay loam, sandy , calcareous, slightly moist; moderately alkaline (pH 8.8), non-saline (ECe 116 mS/m); clear to; | | | | | | | | | | | | | |
| 65 - 80 | Light yellowish brown (10YR 6/4) sand , with few black mottles (cutans), calcareous; slightly moist; gradual boundary to; | | | | | | | | | | | | | |
| 80 - 180 | Greyish brown (10YR 5/2) sand , calcareous, with few black mottles (cutans), slightly moist; strongly alkaline (pH 9.0), non-saline (ECe 165 mS/m); gradual boundary to; | | | | | | | | | | | | | |
| 180-200+ | Very dark greyish brown (10YR 3/2) clayey sand , calcareous, moist. | | | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): 0.12 – 0.5 m/d (Imperfectly drained). Depth to water: 190 cm.</p> | | | | | | | | | | | | | | |
| <p>Comment: Best avoided as generally not suitable for conventional on-site effluent disposal due to need for fully inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil near surface and need for setback from soakage dam. Possibly suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).</p> | | | | | | | | | | | | | | |

| | | |
|---|--|-----------------------|
| Site Number: Pit 5 Lot 87 50 H 577048 m E; 6122828 m N | DAFWA Soil landscape mapping: Meerup flats Mf | Land unit: Fs1 |
|---|--|-----------------------|



Landform: Well drained interdunal depression (< 2% gradient).



| WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol) | |
|---|--|
| Depth (cm) | Description |
| 0 – 20 | Very dark grey (10YR 3/1) loamy sand , dry; strongly acid (pH 5.4), non-saline (ECe 110 mS/m); gradual boundary to; |
| 20 - 100 | Grey (10YR 5/1) sand , dry, moderately alkaline (pH 8.6), non-saline (ECe 111 mS/m); clear to; |
| 100 –135 | Very dark brown (7.5YR 2.5/2) sand , dry, neutral (pH 7.6), non-saline (ECe 56 mS/m); clear to; |
| 135– 190+ | Pale brown (10YR 6/3) sand , with few black mottles (cutans), slightly moist, neutral (pH 7.4), non-saline (ECe 87 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: Not encountered here but > 3.0 m based on observation in adjacent excavated area.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|---|--|----------------------|
| Site Number: Pit 6 Lot 87 50 H 577101 m E; 6122786 m N | DAFWA Soil landscape mapping: Meerup dunes Mp | Land unit: Dm |
|---|--|----------------------|



Landform: Rapidly drained sand dune (moderate sideslope, 14 % gradient). Note Steeper bank is edge of excavated terrace



| WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth). | |
|---|---|
| Depth (cm) | Description |
| 0 – 20 | Dark grey (10YR 4/1) sand , dry; clear boundary to; |
| 20 - 70 | Light grey (10YR 7/2) sand , dry, clear boundary to; |
| 70 – 120 | Yellowish brown (10YR 5/6) sand , dry; moderately alkaline (pH 8.0), non saline (ECe 51 mS/m.); diffuse boundary to; |
| 120 - 185 | Yellowish brown (10YR 5/6) sand , with few bleached mottles, dry; gradual boundary to; |
| 185–220+ | Very pale brown (10YR 7/4) sand , calcareous, strongly alkaline (pH 9.2), non saline (ECe 99 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).

Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|---|--|----------------------|
| Site Number: Pit 7 Lot 87 50 H 576958 m E; 6122855m N | DAFWA Soil landscape mapping: Meerup dunes Mp | Land unit: Dc |
|---|--|----------------------|



Landform: Rapidly drained sand dune (gentle upper slope, 7 % gradient).



WA Soil Group: *Pale deep sand* (Deep siliceous podzol)

| Depth (cm) | Description |
|------------|---|
| 0 - 40 | Dark grey (10YR 4/1) sand , dry, gradual boundary to; |
| 40 – 110 | Grey (10YR 5/1) sand , dry, moderately acid (pH 5.6), non-saline (ECe 56 mS/m); gradual boundary to; |
| 110 - 165 | Light grey (10YR 7/1) sand , dry; clear boundary to; |
| 165–210+ | Dark yellowish brown (10YR 4/4) sand , mottled, dry, slightly acid (pH 6.5), non-saline (ECe 48 mS/m). |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|--|---|----------------------|
| Site Number: Pit 8 Lot 98 50 H 577352 m E; 6122837 m N | DAFWA Soil landscape mapping: Owingup flats OW | Land unit: Pf |
|--|---|----------------------|



Landform: Imperfectly drained estuarine plain (< 2% gradient) with fill material.



WA Soil Group: Disturbed land / Semi-wet soil
 (Loamy fill material over siliceous sand)

| Depth (cm) | Description |
|------------|---|
| 0 – 60 | Brown (10YR 4/3/) loamy sand , with few ferruginous gravels, (fill material) dry, neutral (pH 7.2), non-saline (ECe 57 mS/m); clear boundary to; |
| 60 - 105 | Very dark greyish brown (10YR 3/2) clay loam fine sandy , (fill material) calcareous, dry, moderately alkaline (pH 8.4), non-saline (ECe 142 mS/m); clear boundary to; |
| 105 -150 | Dark grey (10YR 4/1) sand , (former land surface?) dry, moderately alkaline (pH 8.5), non-saline (ECe 132 mS/m); clear boundary to; |
| 150 -170+ | Grey (10YR 5/1) clayey sand , moist. |

Indicative subsoil permeability and drainage class (at leach drain depth): 0.12 – 0.5 m/d (Imperfectly drained). **Depth to water:** 170 cm. **Estimated depth of fill:** 105 cm.

Comment: Fill material brings site above 2.64m AHD but not suitable for conventional on-site effluent disposal using septic tanks and leach drains due to policy requirements (City of Albany - Frenchman Bay Road Residential Development Area - undated local planning policy). Suitable for effluent disposal using Alternative Treatment Units subject to 6 m setback from drain on north side of property access way.

| | | |
|--|---|-----------------------------|
| <p>Site Number: Pit 9 Lot 98 50 H 577221 m E; 6122844 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW</p> | <p>Land unit: Fd</p> |
|--|---|-----------------------------|



Landform: Imperfectly drained depression within sandplain margin or footslope area.



| <p>WA Soil Group: <i>Semi-wet soil</i> (calcareous organic loam over siliceous sand)</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 – 20</p> | <p>Black (10YR 2/1) loamy sand, dry; gradual boundary to;</p> |
| <p>20 - 80</p> | <p>Black (10YR 2/1) loam fine sandy calcareous, slightly moist, moderately alkaline (pH 8.6), moderately saline (ECe 699 mS/m); gradual boundary to;</p> |
| <p>80 – 140</p> | <p>Black (10YR 2/1) clayey fine sand, slightly moist; clear boundary to;</p> |
| <p>140 - 210</p> | <p>Black (10YR 2/1) loamy fine sand, moist (with some seepage inflow).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): 1.5 - 3.0 m/d (Moderately well drained). **Depth to water:** 210 cm (although gradual seepage inflow above).

Comment: Limited area, best avoided and generally not suitable for on-site effluent disposal systems.

| | | |
|---|---|------------------------------|
| <p>Site Number: Pit 10 Lot 98 50 H 577248 m E; 6122827 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW</p> | <p>Land unit: Fs2</p> |
|---|---|------------------------------|



Landform: Gently undulating, well drained sandplain margin or footslope area.



| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth).</p> | |
|--|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 - 35</p> | <p>Dark grey (10YR 4/1) sand, dry, gradual boundary to;</p> |
| <p>35 - 80</p> | <p>Grey (10YR 5/1) sand, dry, neutral (pH 7.6), non-saline (ECe 57 mS/m); gradual boundary to;</p> |
| <p>80 - 85</p> | <p>Dark brown (10YR 3/3) loamy sand, dry; weak hardpan, neutral (pH 7.7), slightly-saline (ECe 228 mS/m); clear boundary to;</p> |
| <p>85 - 100</p> | <p>Very dark brown (7.5YR 2.5/2) loamy sand (with limestone / marl rubble); dry, clear to;</p> |
| <p>100-180+</p> | <p>Pale brown (10YR 6/3) sand, calcareous, dry, moderately alkaline (pH 9.0), non-saline (ECe 144 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).
Depth to water: Not encountered, likely to be > 3.0 m based on topography and geomorphology.

Comment: Limited area, but suitable for conventional on-site effluent disposal using septic tanks and leach drains subject to adequate setback distance from nearby soakage dam.

| | | |
|---|---|------------------------------|
| <p>Site Number: Pit 11 Lot 98 50 H 577190 m E; 6122929 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup dunes Mp over Owingup flats OW</p> | <p>Land unit: Fs2</p> |
|---|---|------------------------------|



Landform: Gently undulating, well drained sandplain margin or footslope area. (site on cleared area beyond access road)



| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth).</p> | |
|--|--|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 - 35</p> | <p>Dark grey (10YR 4/1) sand, dry, slightly acid (pH 6.0), non-saline (ECe 69 mS/m); clear boundary to;</p> |
| <p>35 - 60</p> | <p>Grey (10YR 5/1) sand, clear boundary to;</p> |
| <p>60 – 90</p> | <p>Light yellowish brown (10YR 6/4) sand, dry, gradual boundary to;</p> |
| <p>90 - 130</p> | <p>Yellowish brown (10YR 5/4) sand, calcareous, dry, neutral (pH 6.9), non-saline (ECe 35 mS/m); gradual to;</p> |
| <p>130-180+</p> | <p>Very pale brown (10YR 7/4) sand, calcareous, dry, moderately alkaline (pH 9.0), non-saline (ECe 119 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained).

Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.

Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).

| | | |
|---|--|-----------------------------|
| <p>Site Number: Pit 12 Lot 98 50 H 577052 m E; 6122975 m N</p> | <p>DAFWA Soil landscape mapping: Intergrade area Meerup over Owingup flats OW</p> | <p>Land unit: Pd</p> |
|---|--|-----------------------------|





Landform: Imperfectly drained estuarine plain (< 1% gradient) fringing wetland area (at far left).



| <p>WA Soil Group: Alkaline grey deep sandy duplex - over buried calcareous sand.</p> | |
|---|---|
| <p>Depth(c m)</p> | <p>Description</p> |
| <p>0 – 20</p> | <p>Very dark grey (10YR 3/1) sand, dry, gradual boundary to;</p> |
| <p>20 - 50</p> | <p>Dark grey (10YR 4/1) sand, dry, neutral (pH 6.7), non-saline (ECe 74 mS/m); clear boundary to;</p> |
| <p>50 – 60</p> | <p>Very dark brown (10YR2/2) sand, (weak hardpan); dry, clear boundary to;</p> |
| <p>60 - 80</p> | <p>Light brownish grey (10YR 6/2) Clay loam, sandy, calcareous with limestone / marl rubble, slightly moist; clear boundary to;</p> |
| <p>80 –150+</p> | <p>Pale brown (10YR 6/3) sand, calcareous, moist, with few black mottles (cutans), moderately alkaline (pH 8.2), slightly-saline (ECe 338 mS/m).</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): partly within rapidly drained sand (> 3.0 m/d) and imperfectly drained clay loam (0.12 – 0.5 m/d). **Depth to water:** 150 cm (although gradual seepage inflow above).

Comment: Best avoided as generally not suitable for conventional on-site effluent disposal due to need for partially inverted leach drains within imported soil fill material to achieve adequate separation from clayey subsoil and need for setback from nearby wetland.

| <p>Site Number: Pit 13 Lot 98 50 H 577055 m E; 6122889 m N</p> | <p>DAFWA Soil landscape mapping: Meerup dunes Mp</p> | <p>Land unit: Dg</p> | | | | | | | | | | | | | | |
|--|--|--|--|--|------------|-------------|--------|--|---------|--|----------|---|----------|--|----------|---|
|  | | <p>Landform: Gently undulating upland surface of well drained dunes (4 – 5 % gradient).</p> | | | | | | | | | | | | | | |
|  | <table border="1"> <tr> <td colspan="2"> <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> </td> </tr> <tr> <th>Depth (cm)</th> <th>Description</th> </tr> <tr> <td>0 – 20</td> <td>Dark grey (10YR 4/1) sand, dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to;</td> </tr> <tr> <td>20 – 85</td> <td>Grey (10YR 5/1) sand, dry, clear to;</td> </tr> <tr> <td>85 - 105</td> <td>Light grey (10YR 7/2) sand, dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to;</td> </tr> <tr> <td>105 –125</td> <td>Pale brown (10YR 6/3) sand, dry, clear to;</td> </tr> <tr> <td>125-150+</td> <td>Strong brown (7.5YR 4/6) sand, with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m).</td> </tr> </table> | | <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> | | Depth (cm) | Description | 0 – 20 | Dark grey (10YR 4/1) sand , dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to; | 20 – 85 | Grey (10YR 5/1) sand , dry, clear to; | 85 - 105 | Light grey (10YR 7/2) sand , dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to; | 105 –125 | Pale brown (10YR 6/3) sand , dry, clear to; | 125-150+ | Strong brown (7.5YR 4/6) sand , with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m). |
| <p>WA Soil Group: <i>Pale deep sand</i> (Deep siliceous podzol)</p> | | | | | | | | | | | | | | | | |
| Depth (cm) | Description | | | | | | | | | | | | | | | |
| 0 – 20 | Dark grey (10YR 4/1) sand , dry, neutral (pH 6.8), non-saline (ECe 87 mS/m); clear boundary to; | | | | | | | | | | | | | | | |
| 20 – 85 | Grey (10YR 5/1) sand , dry, clear to; | | | | | | | | | | | | | | | |
| 85 - 105 | Light grey (10YR 7/2) sand , dry; neutral (pH 7.1), non-saline (ECe 54 mS/m); clear boundary to; | | | | | | | | | | | | | | | |
| 105 –125 | Pale brown (10YR 6/3) sand , dry, clear to; | | | | | | | | | | | | | | | |
| 125-150+ | Strong brown (7.5YR 4/6) sand , with few bleached mottles, dry; neutral (pH 6.5), non-saline (ECe 68 mS/m). | | | | | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have moderate nutrient retention ability and site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | | | | | |

| | | |
|---|---|--|
| <p>Site Number: Exposure 1 Lot 85 50 H 577095 m E; 6122598 m N</p> | <p>DAFWA Soil landscape mapping: Meerup flats Mf over Owingup flats OW</p> | <p>Land unit: Pd/Pw</p> |
|---|---|--|





Landform: Interdunal flat or deflation basin; Imperfectly drained (0 -1% gradient) and adjacent wetland (excavated soak).



| <p>WA Soil Group: <i>Alkaline grey shallow loamy duplex</i> (over buried calcareous sand).</p> | |
|---|---|
| <p>Depth (cm)</p> | <p>Description</p> |
| <p>0 - 15</p> | <p>Very dark grey (10YR 3/1) clayey sand, calcareous; dry, gradual boundary to;</p> |
| <p>15 - 30</p> | <p>Very dark brown (10YR 2/2) sandy loam; dry, clear boundary to;</p> |
| <p>30 - 55</p> | <p>Limestone / marl, in clay loam matrix; dry, clear boundary to;</p> |
| <p>55 - 90</p> | <p>Very pale brown (10YR 7/3) sandy clay loam, with calcareous rubble; dry, gradual boundary to;</p> |
| <p>90 – 120+</p> | <p>Pale brown (10YR 6/3) sand, calcareous; slightly moist.</p> |

Indicative subsoil permeability and drainage class (at leach drain depth): 0.5 – 1.5 m/d (Moderately well drained). **Depth to water:** 130 cm.

Comment: Possibly suitable for conventional on-site effluent disposal (apart from need for setback from soakage dam) using partially inverted leach drains within imported soil fill material to achieve adequate separation from groundwater. Possible also suitable for alternative effluent disposal systems (with lesser minimum depth to water requirement).

| <p>Site Number: Exposure 2 Lot 84 50 H 577193 m E; 6122600 m N</p> | <p>DAFWA Soil landscape mapping: Meerup dunes Mp</p> | <p>Land unit: Dm.</p> | | | | | | | | | | |
|---|---|--|---|--|-------------------|--------------------|--------|--|----------|---|----------|---|
|  | | <p>Landform: Rapidly drained sand dune (moderate sideslope, 18 % gradient).</p> | | | | | | | | | | |
|  | <table border="1"> <tr> <td colspan="2"> <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> </td> </tr> <tr> <th> Depth (cm) </th> <th> Description </th> </tr> <tr> <td> 0 - 50 </td> <td> Greyish brown (10YR 5/2) sand, dry, clear boundary to; </td> </tr> <tr> <td> 50 - 120 </td> <td> Light yellowish brown (10YR 6/4) sand, slightly calcareous; dry, gradual boundary to; </td> </tr> <tr> <td> 120–190+ </td> <td> Yellowish brown (10YR 5/4) sand,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) </td> </tr> </table> | | <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> | | Depth (cm) | Description | 0 - 50 | Greyish brown (10YR 5/2) sand , dry, clear boundary to; | 50 - 120 | Light yellowish brown (10YR 6/4) sand , slightly calcareous; dry, gradual boundary to; | 120–190+ | Yellowish brown (10YR 5/4) sand ,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) |
| <p>WA Soil Group: <i>Pale deep sand</i> (Podzol; calcareous at depth)</p> | | | | | | | | | | | | |
| Depth (cm) | Description | | | | | | | | | | | |
| 0 - 50 | Greyish brown (10YR 5/2) sand , dry, clear boundary to; | | | | | | | | | | | |
| 50 - 120 | Light yellowish brown (10YR 6/4) sand , slightly calcareous; dry, gradual boundary to; | | | | | | | | | | | |
| 120–190+ | Yellowish brown (10YR 5/4) sand ,; with few bleached mottles; calcareous; dry, moderately alkaline (pH 8.7), non-saline (ECe 156 mS/m) | | | | | | | | | | | |
| <p>Indicative subsoil permeability and drainage class (at leach drain depth): > 3.0 m/d (Rapidly drained). Depth to water: Not encountered, likely to be > 3.5 m based on topography and geomorphology.</p> <p>Comment: Suitable for conventional on-site effluent disposal using septic tanks and leach drains. (Subsoil likely to have limited nutrient retention ability but site is not close to water table or surface waterbodies).</p> | | | | | | | | | | | | |

ATTACHMENT D

ACID SULFATE TEST RESULTS



REPORT ITEM DIS 116 REFERS
ChemCentre
Inorganic Chemistry Section
Report of Examination



Purchase Order: 1512
Your Reference:
ChemCentre Reference: 15S1434 R1

Land Assessment Pty Ltd
PO Box 117
Subiaco WA 6008

PO Box 1250, Bentley Delivery Centre
Bentley WA 6983
T +61 8 9422 9800
F +61 8 9422 9801
www.chemcentre.wa.gov.au
ABN 40 991 885 705

Attention: Martin Wells

Final Report on 2 samples of soil received on 21/12/2015

LAB ID **Client ID and Description**

15S1434 / 001 P8/4
15S1434 / 002 P9/4

| Analyte | | ANCe | pH _{KCl} | pH _{ox} | Sk _{Cl} | Sp | S _{pos} |
|---------|--|-------------------------|-------------------|------------------|------------------|---------|------------------|
| Method | | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS | iSPOCAS |
| Unit | | moles H ⁺ /t | | | % | % | % |

Lab ID **Client ID**

| | | | | | | | |
|-------------|------|------|-----|-----|-------|------|------|
| 15S1434/001 | P8/4 | 3.0 | 7.2 | 4.1 | <0.01 | 0.02 | 0.02 |
| 15S1434/002 | P9/4 | <1.0 | 6.7 | 3.4 | 0.06 | 1.56 | 1.50 |

| Analyte | | Stones | TAA | TPA |
|---------|--|--------|-------------------------|-------------------------|
| Method | | (>2mm) | iSPOCAS | iSPOCAS |
| Unit | | % | moles H ⁺ /t | moles H ⁺ /t |

Lab ID **Client ID**

| | | | | |
|-------------|------|------|------|------|
| 15S1434/001 | P8/4 | 0.7 | <1.0 | <1.0 |
| 15S1434/002 | P9/4 | 33.7 | <1.0 | 3200 |

| Analyte | Method | Description |
|-------------------|---------|---|
| Stones | (>2mm) | Stones - sieved particles greater than 2 mm (sample preparation method manual 3.3.2) |
| TAA | iSPOCAS | Titrateable Actual Acidity Method 23F |
| TPA | iSPOCAS | Titrateable Peroxide Acidity |
| ANCe | iSPOCAS | Excess Acid Neutralisation Capacity (AS4969.3) |
| pH _{KCl} | iSPOCAS | pH in a KCl soil extract (1:40 w/v) |
| pH _{ox} | iSPOCAS | pH in a soil suspension after 30% H ₂ O ₂ digest |
| S _{KCl} | iSPOCAS | Sulfur soluble in 1M KCl after TAA titration |
| S _p | iSPOCAS | Sulfur soluble in 1M KCl after 30% H ₂ O ₂ digest and TPA titration |
| S _{pos} | iSPOCAS | Sulfur oxidise by peroxide digest, calculated as S _P minus S _{KCl} |

The results apply only to samples as received. This report may only be reproduced in full.

Unless otherwise advised, the samples in this job will be disposed of after a holding period of 30 days from the report date shown below.

Results for soil analysis are reported on an air-dry (40C) less than 2 mm basis, whereby stones are removed (material >2mm) by sieving.

When stone content is deemed significant the result is recorded and reported.

Unless otherwise specified, all analytes (except Stones) are reported in the listed concentrations and on a dry, less than 2 mm basis.

Stones are reported on a dry, whole sample basis.



Barry Price
Team Leader
Scientific Services Division
8-Jan-2016

ATTACHMENT E
ACID SULFATE SOILS: SELF-ASSESSMENT FORM



Acid Sulfate Soils Self-Assessment Form



Applicant

The applicant is the person with whom the WAPC will correspond and, if the application is approved, the person to whom the approval will be sent.

WAPC reference no

Full name

Postal address

Town / suburb
Postcode

Email
Phone number

Applicant signature
Date

Application property details

Step 1

Assess the possibility of acid sulfate soils disturbance

- Question 1:** Are any dewatering or drainage works (either temporary or permanent) proposed to be undertaken? yes no
- Question 2:** Is excavation of 100 cubic metres or more of soil proposed? yes no
(In lay person's terms 100 cubic metres is about 10 standard-sized dump truck loads.)

If no to both question 1 and question 2 then no further investigation is required at this stage. Please sign this form and submit it, together with a completed 'Clearance of Conditions Request' form along with supporting documentation, to Department of Environment Regulation (DER).

If yes to either question 1 or question 2 go on to step 2.

Step 2

Conduct an acid sulfate soils investigation in accordance with DER's *Identification and Investigation of Acid Sulfate Soils* guideline

- Question 3:** Did the acid sulfate soils investigation indicate that there are acid sulfate soils present? yes no

If no to question 3, then no further investigation is required at this stage. Please sign this form and submit it, together with the written results of the investigation (in the form of an acid sulfate soils report) and a completed 'Clearance of Conditions Request' form and required information, to DER with a request for clearance of the acid sulfate soils condition.

If yes to question 3, please sign this form and submit it, together with the written results of the investigation (in the form of an acid sulfate soils report), an acid sulfate soils management plan and a copy of the approved subdivision plan, to DER with a request for approval of the management plan.

Note: After completion of site works in accordance with the approved management plan you will be required to submit a closure report, prepared in accordance with DER's acid sulfate soils guideline series, to DER together with a request for clearance of the acid sulfate soils condition.

Tick box for attachments as appropriate

- Clearance of conditions request form
- Copy of approved subdivision plan
- Copy of approved development plan
- Acid Sulfate Soils investigation report
- Acid Sulfate Soils management plan

- Addressed as part of land capability report

Declaration

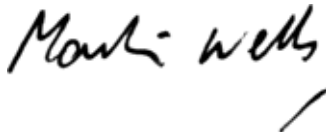
I declare that the information provided is true and correct to the best of my knowledge.

A completed 'Clearance of Conditions Request' form and required information is attached to this form (a copy can be downloaded from <http://www.der.wa.gov.au/your-environment/acid-sulfate-soils/68-ass-forms>)

Applicant signature: _____ Date: _____

Submit form to the
Department of Environment Regulation (DER)
Locked Bag 33
Cloisters Square, Perth WA 6850

If you have any questions relating to the Acid Sulfate Soils Self-Assessment form, please contact Acid Sulfate Soils Section (DER) on 1300 762 982 for assistance or email contaminated_sites@der.wa.gov.au.



Land Assessment Pty Ltd

11/ 1 /16

ATTACHMENT F
ALTERNATIVE TREATMENT SYSTEMS
APPROVED FOR USE IN WA

Approved Aerobic Treatment Units

What are Aerobic Treatment Units (ATUs)?

Aerobic Treatment Units (ATUs) are small ('package') wastewater treatment plants. Due to the treatment and disinfection process, the treated wastewater from several systems may be used for garden irrigation. Some ATUs are also approved for Phosphorus removal. The listed systems have standard approval as domestic models (they may also be used in commercial situations). They are to be installed and operated in accordance with the Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974 and the **Code of Practice for the Design, Manufacture, Installation and Operation of Aerobic Treatment Units (ATUs) Serving Single Dwellings**.

As the conditions of approval can vary between designs, persons interested in installing a particular ATU should confirm it meets their needs and discuss site requirements with the local government.

ATUs have regular service requirements (usually quarterly) and maintenance must be through an **Authorised person** or their staff/subcontractors.

More detailed information on ATUs is contained in the **Aerobic Treatment Units** pamphlet and the **Code of Practice**.



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|---|--|--|--|--|
| <p>Allied Pumps 2 Modal Crescent CANNING VALE WA 6155 Ph: 9350 1000 / 1800 447 777 Fax: 9356 5255 Website: www.aquanova.com.au Email: sms@alliedpumps.com.au</p> | <p>Everhard Aqua-Nova 2000 Model 80100</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or sub-strata or above ground spray irrigation.</p> | <p>Global Certification PL No. 077 27/03/2017</p> |
| <p>Aquarius Wastewater Management Pty Ltd Unit 1/20 Abrams Street BALCATTWA WA 6021 Ph: 9240 8545 Fax: 9240 8542 Website: www.aquariuswastewater.com.au Email: admin@aquariuswastewater.com.au</p> | <p>Aquarius O-3</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or sub-strata or above ground spray irrigation. Capable of removing nutrients to the following concentrations: TP (% removal): <1 mg/L (98.5%) TN (% removal): <10 mg/L (97.8%)</p> | <p>SMKH21519 25/03/2018</p> |
| | <p>Aquarius O-2</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved only for below ground disposal via sub-surface irrigation, leach drains, soak wells or AquaSafe Drains. The system does not include Alum Sulphate dosing and disinfection system. The system does not remove nutrients.</p> | |
| | <p>Aquarius O-2 NR</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved only for below ground disposal via sub-surface irrigation, leach drains, soak wells or AquaSafe Drains. The system does not include disinfection system. Capable of removing nutrients to the following concentrations: TP (% removal): <1 mg/L (98.5%) TN (% removal): <10 mg/L (97.8%)</p> | |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|---|---|---|--|---|
| Biomax Pty Ltd PO Box 462 MIDLAND DC WA 6936 Ph: 9250 7733 Fax: 9250 5844 Website: www.biomax.com.au Email: biomax@inet.net.au | BioMax P10-M (phosphorus removal) BioMax C-10 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| BioSeptic Pty Ltd Concrete Products WA Ph: 9274 6988 Fax: 9274 6939 Website: www.bioseptic.com.au Email: sales@bioseptic.com.au | Performa 2000 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMK02221 18/10/2015 |
| BioSystems 2000 Pty Ltd 3 Carlow Circle WATERFORD WA 6152 Ph: 9450 2570 Fax: 9450 1635 Email: biosystems2000@yahoo.com.au | Biosystem 2000 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| Earthsafe Environmental Pty Ltd PO Box 605 WYONG NSW 2259 Ph: 1300 327 847 Email: steven@rivatec.com.au | Earthsage Environmental ES10PC | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMKH20612 27/08/2016 |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|----------------------|---|--|---|
| <p>Fuji Clean Australia Pty Ltd 5/520 Mulgrave Road Earlville, Cairns QLD 4870 Website: www.fujiclean.com.au</p> <p><u>WA Distributor</u> Ecowater WA 37 Granite Place YANCHEP WA 6035 Ph: 0417 098 281 Email: ecowaterwa@bigpond.com</p> | CE1200 | Single dwelling units up to 8 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| | CE1500EX | Single dwelling units up to 10 person capacity or 1500L/day | Approved for sub-surface or sub-strata or above ground spray irrigation. | SMKH21993 09/05/2016 |
| | | | Capable of removing nutrients to the following concentrations: TP (% removal): 1.3 mg/L (84%) TN (% removal): 21.0 mg/L (58%) | |
| | CRX1500 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or sub-strata or above ground spray irrigation. | No AS1546.3 certification 30/06/2015 |
| | | | Capable of removing nutrients to the following concentrations: TP (% removal): 0.24 mg/L (97%) TN (% removal): 8.29 mg/L (82%) | |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|------------------------------|--|---|--|
| <p>Galvin Concrete & Sheetmetal Pty Ltd Ph: 9302 2175 Website: www.galvins.com.au Email: csm@galvins.com.au</p> <p><u>WA Distributor</u> Clearwater Domestic Sewerage 52 Railway Parade WELSHPOOL WA 6106 Ph: 9258 6933 Fax: 9258 6944 Email: naiquip@iinet.net.au</p> | <p>Clearwater 90 Compact</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for above ground spray irrigation.</p> | <p>No AS1546.3 certification 30/06/2015</p> |
| <p>Icon-Septech Pty Ltd Lot 265 Valencia Way MADDINGTON WA 6109 Ph: (08) 9493 2352 or 1300 557 143 Fax: (08) 9493 2548 Website: www.icon-septech.com.au</p> | <p>Septech Turbojet 2000</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or above ground spray irrigation.</p> | <p>SMK0239 13/11/2015</p> |
| <p>Jowa Group Pty Ltd 8 Lander Avenue SHEIDOW PARK SA 5158 Ph: (08) 8381 9100 Fax: (08) 8381 9116 Website: www.biocyclejowagroup.com.au Email: sales@biocyclejowagroup.com.au</p> | <p>Biocycle 5800</p> | <p>Single dwelling units up to 10 person capacity.</p> | <p>Approved for sub-surface or above ground spray irrigation.</p> | <p>No AS1546.3 certification 30/06/2015</p> |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|---|---|--|---|
| Krystal Kleer Pty Ltd 59 Commerce Circuit Yatala QLD 4207 Ph: (07) 3382 7666 Website: www.qualitytanks.com.au Email: Nicole@qualitytanks.com.au | Krystal Kleer ADV5000 (Concrete and plastic models) | Single dwelling units up to 10 person capacity. | Approved for sub-surface or above ground spray irrigation. | Cert No. 125 13/09/2014 |
| Suncoast Waste Water Management 59 Industrial Avenue KUNDA PARK QLD 4556 Ph: 1800 450 767 Website: www.ozzikleen.com Email: info@ozzikleen.com | Ozzi Kleen RP10 | Single dwelling units up to 10 person capacity. | Approved for sub-surface or above ground spray irrigation. | SMK02608 14/08/2016 |



| Manufacturer or supplier | Brand name and model | Capacity | Comments and restrictions | AS certification & Approval Expiry Date |
|--|---|---|--|---|
| Taylex Industries Pty Ltd 56 Prairie Road Ormeau QLD 4208 Ph: (07) 3441 5200 Fax: (07) 3287 4199 Email: Taylex@bigpond.com.au | Taylex DMS (Domestic Membrane System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. Capable of removing nutrients to the following concentrations: TP (% removal): 0.29 mg/L (96%) TN (% removal): 6.19 mg/L (86%) | No AS1546.3 certification 30/06/2015 |
| | Taylex ABS (Advanced Blower System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. | |
| | Taylex Poly ABS (Advanced Blower System) | Single dwelling units up to 10 person capacity. | Approved for above ground spray irrigation, sub-surface or sub-strata drip irrigation. | |



Assessed and not approved OR Approval withdrawn

| Manufacturer / Supplier | Brand name and model | Reason not approved / Further information |
|--|-----------------------|---|
| Biolytix Technologies PO Box 591 MALENY QLD 4552 Ph: (07) 5435 2700 Fax: (07) 5435 2701 Website: www.biolytix.com Email: info@biolytix.com | Biolytix BF-6 Aerated | Company liquidated. Biolytix units which have been issued a 'Permit to Use' by local government before 19 January 2011 can still be in use. For further information, visit the following webpage: www.lawlerpartners.com.au/creditor_reports/biolytix_group_of_companies/faqs |
| Water Gurus Pty Ltd 3/57 Inspiration Drive WANGARA WA 6065 Ph: 9302 6444 or 1800 043 956 Fax: 9302 6777 Website: www.watergurus.com.au | Novaclear | Company liquidated. For further information, visit the following webpage: http://www.asic.gov.au/ |

More information:

Water Unit

Environmental Health Directorate
 Department of Health
 PO Box 8172
 PERTH BUSINESS CENTRE WA 6849

Telephone: 08 9388 4999

Facsimile: 08 9388 4910

This document is available in alternative formats on request for a person with a disability.



Approved Alternative Leach Drains

These phosphorus reducing systems have a conventional septic tank and leaching field (leach drain) arrangement. The leaching field is contained within an approved amended soil which binds phosphates from the effluent.

| Manufacture / Supplier | Brand Name and Model | Comments and Restrictions | Approval Date |
|--|---|---|---------------|
| Filtrex Innovative Wastewater Solutions PO Box 5122 BUNBURY WA 6231 Ph: (08) 9726 0118 Fax: (08) 9726 0117 Website: www.filtrex.com.au Email: info@filtrex.com.au | Filtrex Split System | <ul style="list-style-type: none"> ■ Leach drains (for blackwater) and subsurface irrigation (for greywater) only. ■ Minimum 600mm soil absorption from any ground or pooled waters at the wettest time of year | 01/02/08 |
| | Filtrex Phosphate and Nutrient Wastewater Irrigation System | <ul style="list-style-type: none"> ■ Leach drains disposal only. ■ Minimum 600mm soil absorption from any ground or pooled waters at the wettest time of year | 31/05/11 |
| | Filtrex Leach Drain Cage | <ul style="list-style-type: none"> ■ Has an infiltrative area of 0.9m² per metre length ■ Non-phosphorus retentive. ■ Install in accordance to Department of Health approval conditions | 29/10/2008 |
| | Filtrex Standard Leach Drain Cage SLD MK2 | <ul style="list-style-type: none"> ■ Has an infiltrative area of 1.5m² per metre length ■ Non-phosphorus retentive. ■ Install in accordance to Department of Health approval conditions | 27/10/2009 |



More information

Water Unit
Environmental Health Directorate
Department of Health
PO Box 8172
PERTH BUSINESS CENTRE WA 6849
Telephone: (08) 9388 4999
Fax: (08) 9388 4910

Produced by Environmental Health Directorate
© Department of Health, Western Australia 2012



Appendix B

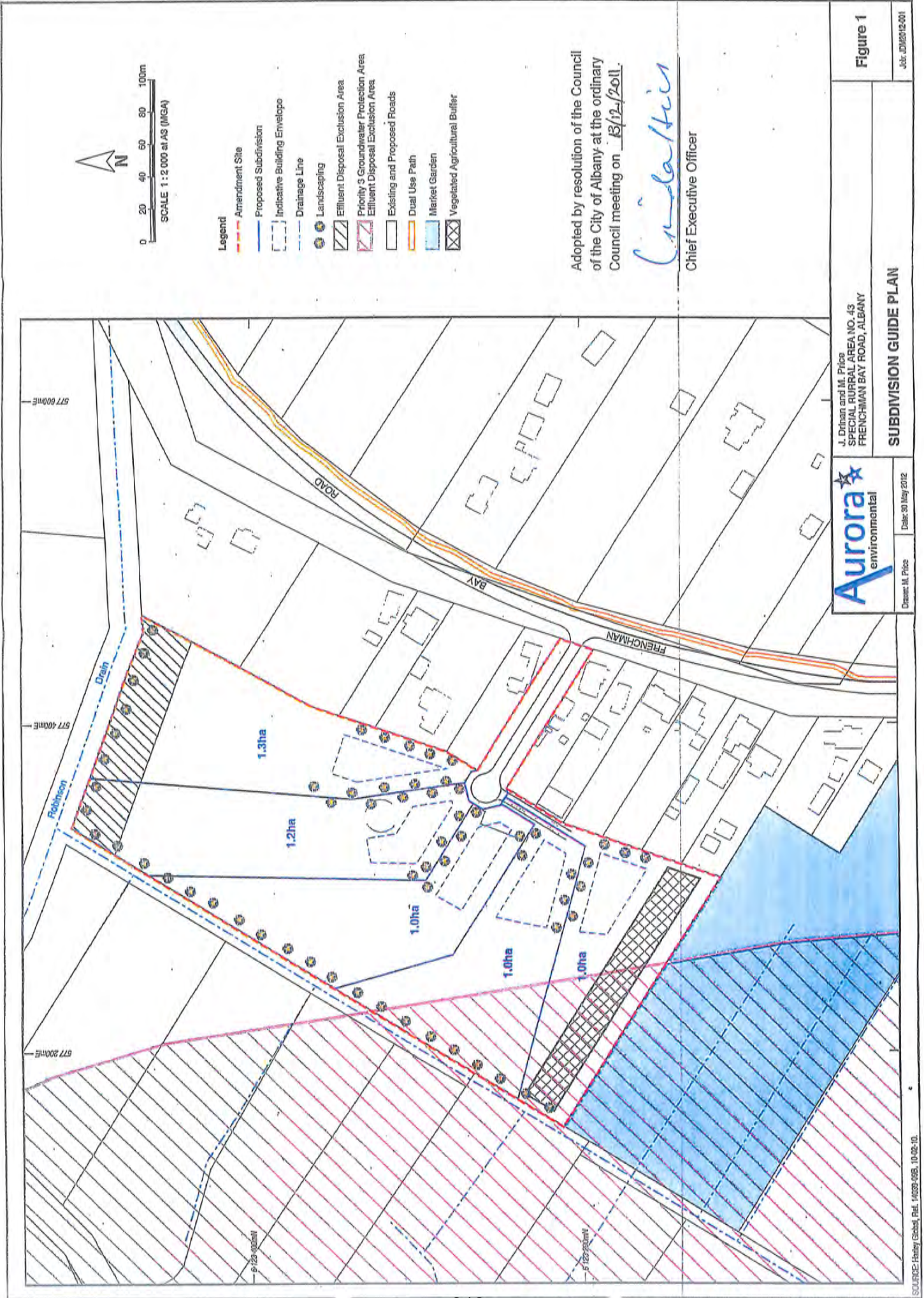
Existing Provisions & Subdivision Guide Plan

Local Planning Scheme No. 1

Rural Residential Area No. 43

| No. | Specified Rural Residential Zone | Special Provisions Applying to Specified Rural Residential Zone |
|------|--------------------------------------|--|
| | | <p>the local government both prior to commencement of subdivision works and following completion of subdivision works. The report to provide adequate information proving that the land is suitable to accommodate future dwellings.</p> |
| RR42 | Little Grove Rural Residential zone | <ol style="list-style-type: none"> 1. The minimum lot size shall be two hectares. 2. The following land uses are 'P' permitted uses— <ul style="list-style-type: none"> • Single House. 3. The following land uses are 'D' discretionary uses— <ul style="list-style-type: none"> • Ancillary Accommodation; • Bed and Breakfast/Farmstay; • Home Business; • Home Occupation; • Industry—Cottage; • Public Utility; and • Rural Pursuit (which shall be limited to existing cleared and pastured land only). 4. All buildings and structures shall be— <ol style="list-style-type: none"> (a) Located off any ridgeline as shown on the Subdivision Guide Plan as determined by the Local Government; (b) Located to retain the maximum amount of remnant vegetation on the site; and (c) Setback a minimum of 15 metres from any lot boundary. |
| RR43 | Lot 114 Frenchman Bay Road, Robinson | <p>Plan of Subdivision</p> <ol style="list-style-type: none"> 1. Subdivision shall be generally in accordance with the adopted Subdivision Guide Plan <i>RR43</i>, as endorsed by the CEO. 2. The Western Australian Planning Commission may allow an alternative plan of subdivision, should it be satisfied that the plan of subdivision is consistent with the objectives and outcomes of the zone and Subdivision Guide Plan. 3. The Local Government will not generally recommend lots sizes less than one hectare. <p>Land Use</p> <ol style="list-style-type: none"> 4. Within Special Rural Zone Area No. 43 the following uses are permitted— <ul style="list-style-type: none"> • Single House 5. The following uses may be permitted subject to the special approval of the Local Government ('A')— <ul style="list-style-type: none"> • Home Occupation (cottage industry); • Public Utility; • Bed and Breakfast/Farmstay; • Holiday Accommodation; • Stables; • Home Office; • Home Business; and • Other non-defined or incidental activities considered appropriate by the Local Government which are consistent with the objectives of the zone. <p>Location of Buildings and Structures</p> <ol style="list-style-type: none"> 6. Any building on a lot must be constructed within a Building Envelope. Such Building Envelopes shall not exceed 2000m². Indicative building envelopes are shown on the subdivision guide plan. 7. Notwithstanding the requirement the Local Government may permit an alternative Building |

| No. | Specified Rural Residential Zone | Special Provisions Applying to Specified Rural Residential Zone |
|------|---|---|
| | | <p>Envelope location if it is shown to the satisfaction of the Local Government that—</p> <ul style="list-style-type: none"> (a) The proposed location of the building envelope can achieve the setbacks established at 8; (b) All effluent disposal systems remain outside of the effluent disposal exclusion areas; and (c) That the necessary clearance to the ground water table can be achieved to support a suitable effluent disposal system. <p>8. All buildings are to be setback a minimum of 10 metres from all lot boundaries.</p> <p>Water Supply</p> <p>9. All dwellings shall be required to provide a rainwater tank of not less than 50,000 litres capacity to harvest rainwater for household and garden use.</p> <p>Effluent Disposal</p> <ul style="list-style-type: none"> 10. The Local Government shall require the use of amended soil type effluent disposal systems, such as EcoMax/ATU Systems. 11. Effluent disposal systems are to be located outside of the effluent disposal exclusion areas marked on the Subdivision Guide Plan. 12. No more than one effluent disposal system will be permitted on one lot. <p>Access</p> <ul style="list-style-type: none"> 13. Battleaxe legs are to be a minimum of 5 metres. Where access legs are to be co-located, their combined width may be reduced by 7.5 metres. 14. All driveways and underground infrastructure shall be designed and constructed so as to avoid erosion impacts and prevent unnecessary discharge of storm water. <p>Water Management</p> <p>15. The wastewater, stormwater and effluent disposal solutions documented in the <i>Local Water Management Strategy and Urban Water Management Plan Lot 114 (No. 142) Frenchman Bay Road, Robinson, City of Albany (April 2011)</i> shall form the basis for the detailed water management strategies.</p> <p>Finished Floor Levels</p> <p>16. All buildings must achieve a minimum finished floor level of 2.64 metres AHD.</p> <p>Notification of Prospective Owners</p> <p>17. The Local Government may require the subdivider to make arrangements satisfactory to the Local Government to ensure prospective purchasers are advised of the potential for nuisance impacts of odour, noise, dust and spray drift from the market garden located within 300 metres of the proposed development.</p> <p>Agricultural Buffer</p> <ul style="list-style-type: none"> 18. A vegetated agricultural buffer is to be provided to the minimum width of 20 metres, plus a 10 metre setback for access from the south south-east boundary of the subject lot where the market garden adjoins, together with any required additional land for access for maintenance and firebreaks. 19. In relation to the 20 metre vegetated agricultural buffer to the existing market garden, species used in the closest 10 metre portion of the buffer shall not be capable of growing taller than 3 metres to prevent the incidence of overshadowing. |
| RR44 | Torbay Hill, Kronkup Rural Residential zone | <p>1. Subdivision of RR44 shall generally be in accordance with the Subdivision Guide Plan <i>RR44</i> endorsed by the CEO, with any minor</p> |



| Schedule on Submissions and Recommendations | | | |
|--|---|---|--|
| Local Structure Plan No.4 | | | |
| No. | Address | Summary of comment | Proposed modifications to address issues raised in the submissions |
| UTILITIES | | | |
| 1. | ATCO Gas | ATCO Gas does not have any comment or objection to the proposed Local Structure Plan. | Note comment relating to gas. No recommendation necessary. |
| 2. | Water Corporation | The Water Corporation noted that: <ul style="list-style-type: none"> • Reticulation water main extensions will be required for the Lots created fronting Home and Harding Roads; • Contribution for Water, Sewerage and Drainage headworks may be required; and • Land may need to be ceded free of cost for works. | Note comment relating to reticulated water main extensions, contributions and ceding of land. Subdivision and development applications are referred to the Water Corporation for comment, at which time, requests can be made for contributions, infrastructure development and/or ceding of land. Not necessary to include a condition on the structure plan to address Water Corporation comments. No recommendation necessary. |
| 3. | Telstra | At present, Telstra Corporation Limited has no objection | Note comment relating to power. No recommendation necessary. |
| ENVIRONMENT | | | |
| 4. | Environmental Protection Authority | The Environmental Protection Authority support the introduction of scheme provisions to ensure appropriate setbacks to horticultural activity and the retention of vegetation where possible. | Note comment relating to boundary setbacks and vegetation protection. A 20m wide 'Vegetated Agricultural Buffer' is shown on the submitted Local Structure Plan No. 4 to limit impact to a neighbouring horticulture activity and to protect vegetation. No recommendation necessary. |
| SURROUNDING ACTIVITIES | | | |
| 5. | Department of Mines, Industry, Regulations and Safety (DMIRS) | The Department of Mines, Industry, Regulations and Safety request that notifications are placed on any new lots created, alerting potential purchasers that sand extraction is taking place within 500m of the subject area and such activity may affect rural amenity. | Uphold comment relating to issues associated with neighbouring land uses. It is recommended that the following text is included on the structure plan: |
| 6. | | Lots 97 and 100 Frenchman Bay Road neighbour the structure plan area. The Lots are used to grow crops (e.g. vegetables). Bore water is used to irrigate the crops. The owner of Lots 97 and 100 is concerned that additional subdivision/development may increase effluent, which may impact the quality of surface and groundwater and cause an unacceptable risk to food safety of vegetables being grown. Extra residences increases the chance of complaints though people not realising what a market garden entails. As we have historical use, it is unequitable that we should have our peace and enjoyment of our land altered. | <i>“At the time of subdivision, a Notification is to be placed on the certificate(s) of title of the proposed lot(s) advising of the existence of sand extraction and horticulture activity taking place within 500m and such activity may affect rural amenity.”</i> It is recommended that the concern relating to the potential for groundwater contamination, from effluent disposal systems be dismissed for lots proposed adjacent to the horticulture activity, with the exception of the proposed lot 'Residential'. A land evaluation assessment and site visit confirms that the proposed lots 10, 11, 12 and 13, located adjacent to the horticulture activity are capable of achieving development due to elevated areas and thus clearance to groundwater. The proposed Lot 'Residential', which is also located adjacent to the horticulture activity, is constrained due to extreme fire danger and water inundation. Considering the land capability constraints for the proposed Lot 'Residential', it is recommended that the proposed Lot 'Residential' is amalgamated with the proposed Lot '13'. |
| LAND CAPABILITY ASSESSMENT | | | |

| | | | |
|--------------------------------|---|--|---|
| 7. | Department of Water and Environmental Regulation (DWER) | <p>The Department of Water and Environmental Regulation noted that a soil assessment was undertaken for the subject area in early summer.</p> <p>The Department of Water and Environmental Regulation commented that the soil assessment should represent end of winter testing.</p> | <p>Dismiss comment relating to the request for end of winter soil testing.</p> <p>Common sense suggests that testing to determine the location of groundwater should occur in the wet (winter) months. However this is not necessarily the case. For determining approximate depth to water table, The Australian Standard 1547 suggests professional observation and interpretation of soil properties which include changes in soil colour, structure, and degree of mottling within the profile, as well as consideration of site indicators such as hydrophilic vegetation, data from any nearby bores, and anecdotal evidence from landholders on site drainage in the area. This can be done at any time of year. AS/NZS 1547 also states that the duration of a seasonal shallow water table is of much greater importance than its minimum depth at any one time.</p> <p>To alleviate any doubt on the matter, it is recommended that specialised effluent disposal systems are used to ensure pollutants do not enter the water table.</p> <p>It is recommended that the following provision is included on the structure plan map:</p> <p>a) To ensure nutrients are removed from effluent, the Local Government shall require the use of emended soil type effluent disposal systems, such as EcoMax/ATU Systems.</p> |
| PROPOSED LOTS 10 AND 13 | | | |
| 8. | Department of Water and Environment Regulation (DWER) | <p>The DWER has concerns with regard to the suitability for long-term on-site sewage disposal on proposed Lots 10 and 13.</p> <p>The DWER stated:</p> <p>Proposed lots 10 and 13 in the Local Structure Plan should not be supported given that:</p> <ul style="list-style-type: none"> • The minimum requirements for onsite sewage disposal for Lot 13 would only be met if an unreasonable amount of fill was used. • On-site sewage disposal on Lot 13 is likely to have an adverse impact on the water quality of the PDWSA. There is a high risk that even with a large amount of fill, pathogens could still reach the groundwater water and thus impact Albany's drinking water supply. • Lot 13 is in a sewage-sensitive area where onsite sewage disposal and other uses of the lot are likely to have cumulative adverse impact on groundwater and other receiving water bodies; in this case Princess Royal Harbour. • It is considered that although phosphorus leaching could be potentially managed if high PRI fill was used then, nitrogen concentrations would still not be addressed under the nutrient concentration targets set for on-site sewage disposal within SSA. | <p>Dismiss comment from the DWER relating to proposed Lots 10 and 13.</p> <p>As per a land evaluation assessment produced for the structure plan, there are areas within the proposed Lots 10 and 13, which are capable of servicing effluent disposal systems.</p> <p>The same cannot be said for the proposed Lot 'Residential' (portion of Lot 98), which is constrained due to:</p> <ul style="list-style-type: none"> a) Poor drainage; b) A deflation basin; c) Seasonally high groundwater levels; and d) A higher than acceptable bushfire heat exposure rating of 40kw/m² (BAL40) and Flame Zone (FZ). <p>Refer to the structure plan, which indicates a new proposed lot ('Residential') in the north eastern corner.</p> <p>City staff undertook a site visit to the subject lots 10, 13 and 'Residential'. It is obvious that proposed lots 10 and 13 have elevated areas and therefore suitable clearance to the groundwater.</p> <p>The proposed lot 'Residential, however, is low lying and subject to water inundation.</p> <p>Considering the constraints associated with the subject area, it is recommended that the proposed Lot 'Residential' (portion of Lot 98) is amalgamated with the proposed Lot '13' and rezoned appropriately.</p> <p>It is recommended that the 'Total Area' and 'Lot Yield' data recorded in the 'Local Structure Plan Summary Table', at the 'Executive Summary' section of the structure plan document is amended to reflect the recommendation to amalgamate the proposed Lots "13" and "Residential".</p> |
| PROPOSED LOT 10 | | | |
| 9. | Department of Water and Environment Regulation (DWER) | <p>The building envelope for lot 10 is located in close proximity to the large soak/wetland (30 m or less). Although this lot is likely to meet the required 2m separation to highest groundwater level, the close proximity of the land application area to the soak/wetland provides the same risk to groundwater quality as Lot 13.</p> | <p>Note comment from DWER relating to proposed Lot 10.</p> <p>It is recommended that no modification is required for the following reason:</p> <ul style="list-style-type: none"> • The proposed building envelope is positioned in a 'High capability' area with well drained pale deep sands (Gg land unit). |

| | | LIVESTOCK | |
|-----|--|---|--|
| 10. | Department of Water and Environment Regulation (DWER) | <p>DWER recommends that special provisions are used to restrict the keeping of horses within the zone.</p> <p>Nutrient load targets for the public drinking water source area are likely to be exceeded with livestock on 1 ha size lots.</p> <p>Department of Agriculture guidelines for stocking rates recommend a minimum of 1.7 ha/per horse.</p> | <p>Dismiss comment on livestock rates.</p> <p>In accordance with the City's Scheme (cl:5.5.13.2.8), the keeping of animals may be considered in the Rural Residential zone.</p> <p>The Department of Primary Industries and Regional Development – Agriculture and Food, govern the amount of livestock permitted on land.</p> <p>No recommendation necessary.</p> |
| | | VEGETATION | |
| 11. | Department of Water and Environment Regulation (DWER) | <p>Clearing of native vegetation immediately below the crest of a steep slope (e.g. on Lot 10) is not considered best practice as the land unit is highly susceptible to wind erosion.</p> <p>It is considered that the access road to the lot from Home Road, which will lead to further loss of vegetation will potentially increase risk of erosion and is not good management practice.</p> <p>It is preferable if an alternative is found to clearing which will avoid loss of native vegetation on the crest of the dune.</p> | <p>Uphold (in-part) comment relating to the protection of vegetation (proposed Lot 10).</p> <p>The vegetation at proposed Lot 10 is locally known as 'peppermint tree'. This type of vegetation is abundant in the locality and region. In accordance with the City's scheme, unless vegetation is classified as being threatened, vegetation may be cleared to accommodate development and access.</p> <p>It is however recommended that the structure plan is amended to show vegetation protection areas, outside of development, access and asset protection areas.</p> |
| 12. | Department of Biodiversity Conservation and Attractions (DBCA) | <p>The DBCA noted that:</p> <ul style="list-style-type: none"> • Much of the vegetation in the subject area is in degraded state with little understorey; and • Retention of mid to upper storey vegetation outside of building envelopes will assist in maintaining connectivity for the threatened Western Ringtail Possum. <p>The DBCA recommended that a provision is included in the amendment to promote retention of native vegetation where possible.</p> | |
| | | STORM WATER MANAGEMENT | |
| 13. | Department of Water and Environmental Regulation (DWER) | <p>It is recommended that stormwater drainage should not be discharged off-site prior to treatment and detention.</p> <p>Water efficiency measures should be encouraged with dwellings to have domestic rainwater tanks plumbed into their water supply or to incorporate lot-level grey water systems.</p> <p>On site stormwater management should be designed in accordance with the 'Decision process for stormwater management in WA (DoW 2009)' and the 'Stormwater Management Manual for Western Australia (DoW 2004–2007)'. The stormwater management system should be to the satisfaction of the Local Government Authority, in consultation with the Department of Water.</p> <p>A stormwater management plan should be referred to the department at the subdivision application stage.</p> | <p>Uphold comment from DWER and dismiss comment from the Water Corporation, in relation to stormwater management.</p> <p>It is recommended that the following notation is included on the structure plan:</p> <p><i>On site stormwater management should be designed in accordance with the 'Decision process for stormwater management in WA (DoW 2009)' and the 'Stormwater Management Manual for Western Australia (DoW 2004–2007)'. The stormwater management system should be to the satisfaction of the Local Government Authority.</i></p> |
| 14. | Water Corporation | <p>Drainage and Water Management Plan needs to be completed and approved, by the Department of Water for this area, to set regional</p> | |

| | | | |
|-----|--|---|---|
| | | <p>drainage conditions for the subject and surrounding area as it is in a P3 Priority Protection Area.</p> <p>Developments within this catchment are required to contain the flows from a one in one hundred year storm event on site. Discharge to the Water Corporation drains must be compensated to pre-development levels.</p> | |
| | | BUSHFIRE | |
| 15. | Department of Fire and Emergency Services. | <p>The BAL Contour Plan (pg. 16) does not accurately reflect the BAL ratings of the lots and does not apply the correct methodology</p> | <p>Uphold request for accurate BAL Contour Plan.</p> <p>It is recommended that the BAL Contour Plan is reviewed and updated to comply with the Commissions Guidelines for Planning in Bushfire Prone Areas.</p> |
| | | <p>The BMP assumes all areas within lots will be maintained to APZ standard with no further substantiation. However, the BMP provides no enforceable mechanism to ensure maintenance of this area to low threat as per AS3959 in perpetuity.</p> | <p>Uphold comment relating to asset protection areas.</p> <p>It is recommended that the structure plan is modified to show asset and vegetation protection areas.</p> |
| | | <p>The BMP does not detail the upfront and ongoing tasks, responsibility and timeframe for implementation of measures to ensure the effectiveness of the BMP.</p> | <p>Uphold comment relating to responsibilities.</p> <p>It is recommended that a table is included, within the Bushfire Management Plan, to indicate ongoing responsibilities for landholders, developer and local government.</p> |
| | | <p>Battle-axes should be avoided because they often do not provide two-way access and egress for residents or emergency services and may easily be blocked by falling trees or debris in an emergency.</p> <p>The Structure Plan proposes seven battle-axe lots out of a total of 14 lots. Evidence has not been provided to detail why this configuration cannot be avoided.</p> <p>The structure plan and subdivision design should optimise hazard separation through the provision of public roads/laneways between the bushfire hazard and proposed development.</p> <p>Furthermore, the provision of peripheral access improves vehicle access for emergency services by providing direct access to areas of extreme bushfire hazard during a bushfire event which alternatively would be restricted by private property.</p> | <p>It is recommended that the DFES comment pertaining to the creation of battle-axes lots is upheld in part.</p> <p>The DFES advised that battle-axe access legs should be avoided in bushfire prone areas and should only be considered where it is demonstrated that no alternative exists.</p> <p>It is recommended that a 6m all weather access is developed between Home Road and Frenchman Bay Road, to provide access to proposed lots 10-13. This will overcome the need to develop battle axes for these lots.</p> <p>It is recommended that the battle axes to proposed lots 5-9 remain. The alternative is long thin (30m width) lots fronting Home Road. This is a poor undevelopable alternative.</p> |

CITY OF ALBANY

LOCAL PLANNING SCHEME NO. 1

AMENDMENT No 33

MINISTER FOR PLANNING

PROPOSAL TO AMEND A LOCAL PLANNING SCHEME

LOCAL AUTHORITY: **CITY OF ALBANY**

DESCRIPTION OF LOCAL PLANNING SCHEME: **LOCAL PLANNING SCHEME No. 1**

TYPE OF SCHEME: **DISTRICT SCHEME**

SERIAL No. OF AMENDMENT: **AMENDMENT No. 33**

PROPOSAL:

- i. Incorporating portion of Lot 1, Frenchman Bay Road within 'Additional Uses' site no. 33;*
- ii. Amending Schedule 2 – Additional Uses (CL 4.5) by including Lot 1 within the second column under 'Description of Land';*
- iii. Amending Condition II within the fourth column by replacing the R 30 code with the R 40 code; and*
- iv. amending the Scheme Maps accordingly.*

LOCAL PLANNING SCHEME No. 1

AMENDMENT No. 33

CONTENTS

1. RESOLUTION
2. REPORT
3. EXECUTION

**RESOLUTION TO PREPARE AMENDMENT
TO LOCAL PLANNING SCHEME**

**CITY OF ALBANY
LOCAL PLANNING SCHEME No. 1**

DISTRICT SCHEME

AMENDMENT No. 33

RESOLVED that the local government pursuant to Section 72 of the *Planning and Development Act 2005*, amend the above Local Planning Scheme by:

- i. Incorporating portion of Lot 1, Frenchman Bay Road within 'Additional Uses' site no. 33;*
- ii. Amending Schedule 2 – Additional Uses (CL 4.5) by including Lot 1 within the second column under 'Description of Land';*
- iii. Amending Condition II within the fourth column by replacing the R 30 code with the R 40 code; and*
- iv. amending the Scheme Maps accordingly.*

The amendment is standard under the provisions of the *Planning and Development (Local Planning Schemes) Regulations 2015* for the following reason.

- The amendment is consistent with the Albany Local Planning Strategy, which sets a strategic objective to support urban infill development based on compatibility of land uses and infrastructure capacity;
- The amendment would have minimal impact on land in the scheme area that is not the subject of the amendment; and
- The amendment does not result in any significant environmental, social, economic or governance impacts on land in the scheme area.

Dated this _____ day of _____

CHIEF EXECUTIVE OFFICER

CITY OF ALBANY

LOCAL PLANNING SCHEME NO. 1

AMENDMENT No. 33

PLANNING REPORT

Contents

| | |
|--|----------|
| 1. INTRODUCTION | 1 |
| 2. BACKGROUND | 2 |
| LOCATION PLAN | 2 |
| SITE PLAN | 3 |
| 3. PLANNING CONTEXT | 4 |
| 4. BUSH FIRE PLANNING..... | 6 |
| 5. PROPOSED SCHEME AMENDMENT..... | 6 |
| INDICATIVE CONCEPT PLAN | 7 |
| 6. CONCLUSION | 8 |

APPENDIX A: BAL CONTOUR PLAN AND BUSHFIRE MANAGEMENT - PLAN BIO DIVERSE SOLUTIONS - JUNE 2018

1. INTRODUCTION

The Little Grove 'Local Centre' is located on Lots 1 and 312 on the corner of Frenchman Bay Road and Bay View Drive. As the centre is only located on a portion of Lot 1 and has limited further potential for additional retail floor space, a scheme amendment has recently been initiated to designate Lot 312 for 'Additional Uses' in order to allow for the option of developing residential and mixed use development.

The owner of Lot 1 now wishes to extend the 'Additional Uses' designation over the vacant portion of the property in order to also allow for the option of residential/mixed use development.

As the amendment relating to Lot 312 has been advertised and is awaiting final approval, a separate scheme amendment is required to extend the 'Additional Uses' designation.

The following report provides background information and justification for the proposed scheme amendment.

2. BACKGROUND

Lot 1 Frenchman Bay Road contains the Little Grove Local Centre on the corner of Frenchman Bay Road and Bay View Drive, which is located approximately 9km from the Albany Town Centre, Refer to Location Plan below.



LOCATION PLAN

Lot 1 is 3,197m² in area and approximately 2065m² or 65% of the site has been developed with a service station, convenience and liquor store, associated office space, storage, car parking and loading/service area. The balance of the site is 1132m² and is currently vacant and the owner of the property requests the flexibility to develop residential units and/or mixed uses on the site. Refer Site Plan.

It is proposed that this 'Additional Use' designation also be extended to Lot 1 so that the vacant portion of the site can be developed for the same purposes.



3. PLANNING CONTEXT

The key planning document relating to the distribution and development of retail centres in Albany is the City of Albany's 'Activities Centre Planning Strategy' (ACPS) which was endorsed by the Council in June 2010.

The Strategy notes that Local Centres play an important role in Albany, providing a local convenience service. However, as the higher order services provided by the larger neighbourhood centres also provide a local convenience function, the need for future purely-local centres is considered limited.

Local Centres are allowed to develop Shop/Retail floorspace up to 600²m, although the ACPS notes that most will probably remain smaller than this.

The Strategy recommends that Local Centres:

- Encourage and facilitate the development of other local-serving uses at an appropriate scale within local activity centres. Such uses could include some local offices and residential development.
- Where practicable, within a 100 metre radius of local centres, facilitate increased residential density of at least R30, preferably R40. This will enhance the commercial potential of these centres.
- Allow additional, appropriately sited, local activity centres to be planned in new urban areas as part of the structure planning process, to serve as (amongst other things) focal points for increased residential densities.

The first dot point is relevant to this amendment proposal as it encourages the development of residential development as well as other local servicing uses such as some local offices. While offices are a discretionary use within the 'Local Centre' zone, a single house, grouped dwelling and multiple dwelling are not permitted.

Other uses which may be considered within the 'Local Centre' zone include:

| | |
|-----------------------|--------------------|
| Amusement Parlour | Industry - service |
| Caretaker's Dwelling | Market |
| Child Care Premises | Medical Centre |
| Civic Use | Office |
| Club Premises | Restaurant |
| Community Purposes | Service Lunch Bar |
| Consulting Rooms | Service Station |
| Convenience Store | Shop |
| Dry Cleaning Premises | Small Bar |
| Exhibition Centre | Storage |
| Fast Food Outlet | Tavern |
| Industry – Cottage | Veterinary Service |

While some of the above uses may not be suitable for particular locations, their retention will allow for their consideration in an appropriate situation without having to go through the process of a Scheme amendment.

Current practice generally excludes the development of a 'Single House' and most Schemes in WA encourage 'Grouped Housing' and 'Multiple Housing' within a 'Local Centre'.

With regard to proposed retail development in the locality, the only proposal is a 'Village Centre' associated with the Big Grove Outline Development Plan. The Village Centre is nominated for convenience shopping and commercial uses along with complimentary residential uses.

The size of the centre was not determined as it was considered outside the study time frame. However, it was noted that surrounding development potential could support a small to medium sized Neighbourhood Centre.

Within this context, the Little Grove Local Centre is likely to remain a local centre and will have the capacity to extend from 400m² Shop Retail to 600m² should demand increase pending the development of the Big Grove Centre.

This additional floor space can be accommodated by making more efficient use of the existing site or by extending into the vacant land remaining within Lot 1.

4. BUSH FIRE PLANNING

As the property is located within a bushfire prone area, a BAL Contour Plan and Bushfire Management Plan has been prepared and is attached in Appendix 'A'.

BAL 12.5 will apply to any future development of the vacant land and BAL 29 will apply to the existing building.

5. PROPOSED SCHEME AMENDMENT

In order to provide for the flexibility to develop residential and mixed use development on the vacant portion of Lot 1, it is proposed to incorporate the lot within the 'Additional Uses' site which is currently the subject of a Scheme Amendment relating to Lot 312 to the north.

The 'Additional Uses' will allow 'Grouped Housing', 'Multiple Housing' and 'Mixed Use' to become discretionary ('A') uses.

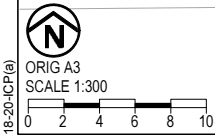
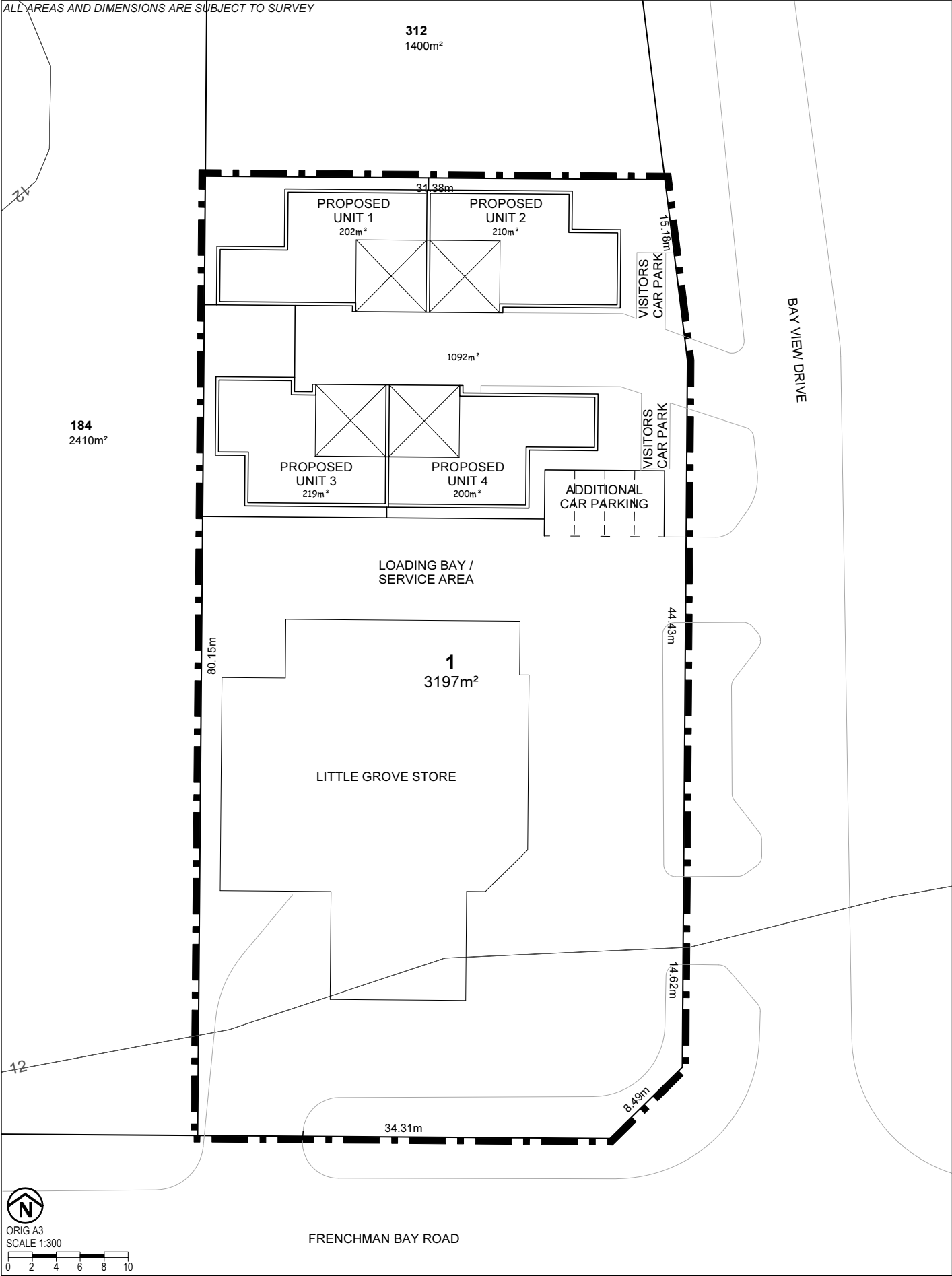
This will allow for the flexibility for a number of development options ranging from commercial, residential or mixed use within the vacant land. The proponent's preference at this stage is to develop up to four residential units on the site which would also have potential to incorporate suitable commercial use such as a small scale office.

An Indicative Concept Plan has been prepared (refer over leaf) which illustrates how four units can be developed on the site with two visitor parking bays and an additional four car parking bays which are integrated with the local centre site. These bays could be used both for the local centre and possible commercial use(s) associated with the residential units.

While the 'Additional Uses' conditions associated with Lot 312 immediately to the north, designate an R30 density code, it is recommended that an R40 density code apply to both sites in order to allow greater scope for the possibility of mixed use development.

The Indicative Concept Plan demonstrates that the vacant portion of Lot 1 and Lot 312 can be developed independently. Lot 312 is larger in area and with two road frontages can be developed in a number of ways depending on the proposed use or mix of uses.

ALL AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY



6. CONCLUSION

This scheme amendment proposes to extend the 'Additional Uses' designation applying to Lot 312, within the Little Grove Local Centre zone, to the vacant portion of Lot 1, which is also zoned 'Local Centre'.

The proposal provides an opportunity to develop medium density housing in close proximity to the Local centre and meets Council's objective to encourage provision of a greater range of housing in an area which is still predominantly large lot single residential.

An R40 density code is recommended which will also provide greater scope for mixed use development.

PLANNING AND DEVELOPMENT ACT 2005

CITY OF ALBANY

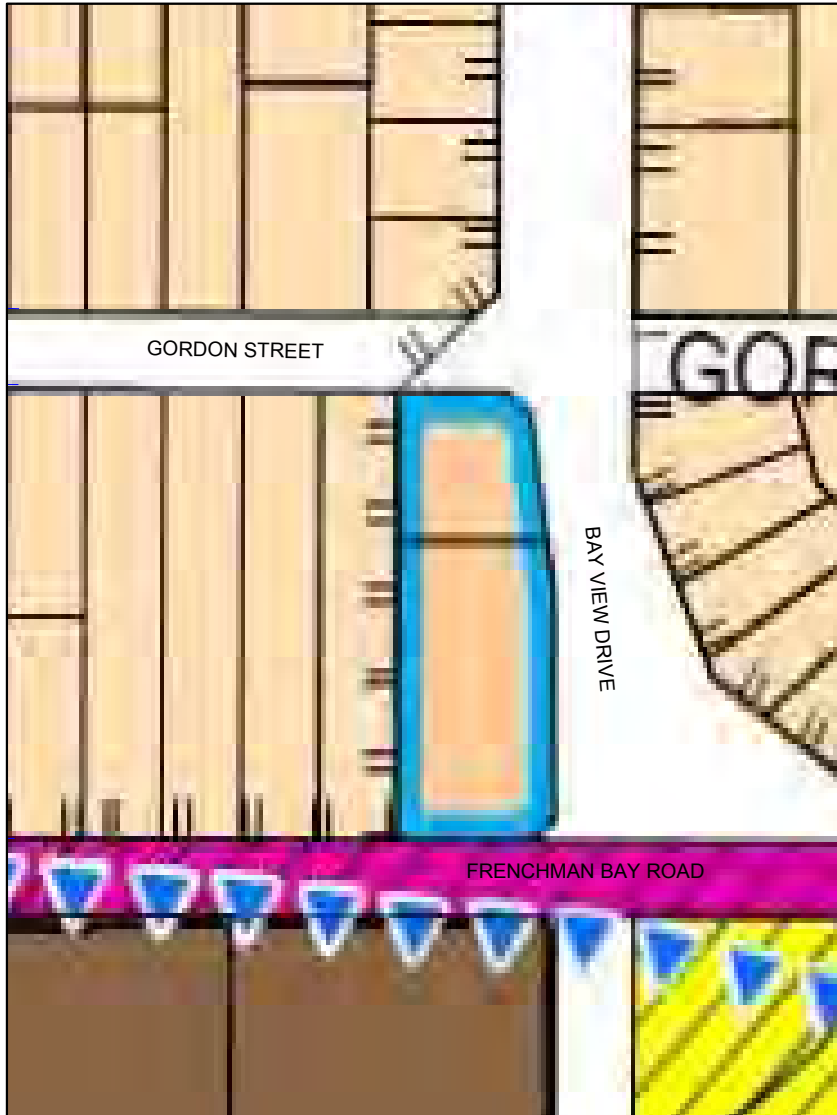
LOCAL PLANNING SCHEME No. 1

AMENDMENT No. 33

The City of Albany under and by virtue of the powers conferred upon it in that behalf by the Planning and Development Act 2005 hereby amends the above local planning scheme by:

- i. Incorporating portion of Lot 1, Frenchman Bay Road within 'Additional Uses' site no. 33;*
- ii. Amending Schedule 2 – Additional Uses (CL 4.5) by including Lot 1 within the second column under 'Description of Land';*
- iii. Amending Condition II within the fourth column by replacing the R 30 code with the R 40 code; and*
- iv. amending the Scheme Maps accordingly.*

Existing Zoning



LEGEND

LOCAL SCHEME RESERVES

(see scheme text for additional information)

- Local road
- Priority road
- Public use

LOCAL SCHEME ZONES

(see scheme text for additional information)

- Local centre
- Residential
- Rural residential

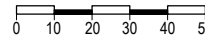
OTHER CATEGORIES

(see scheme text for additional information)

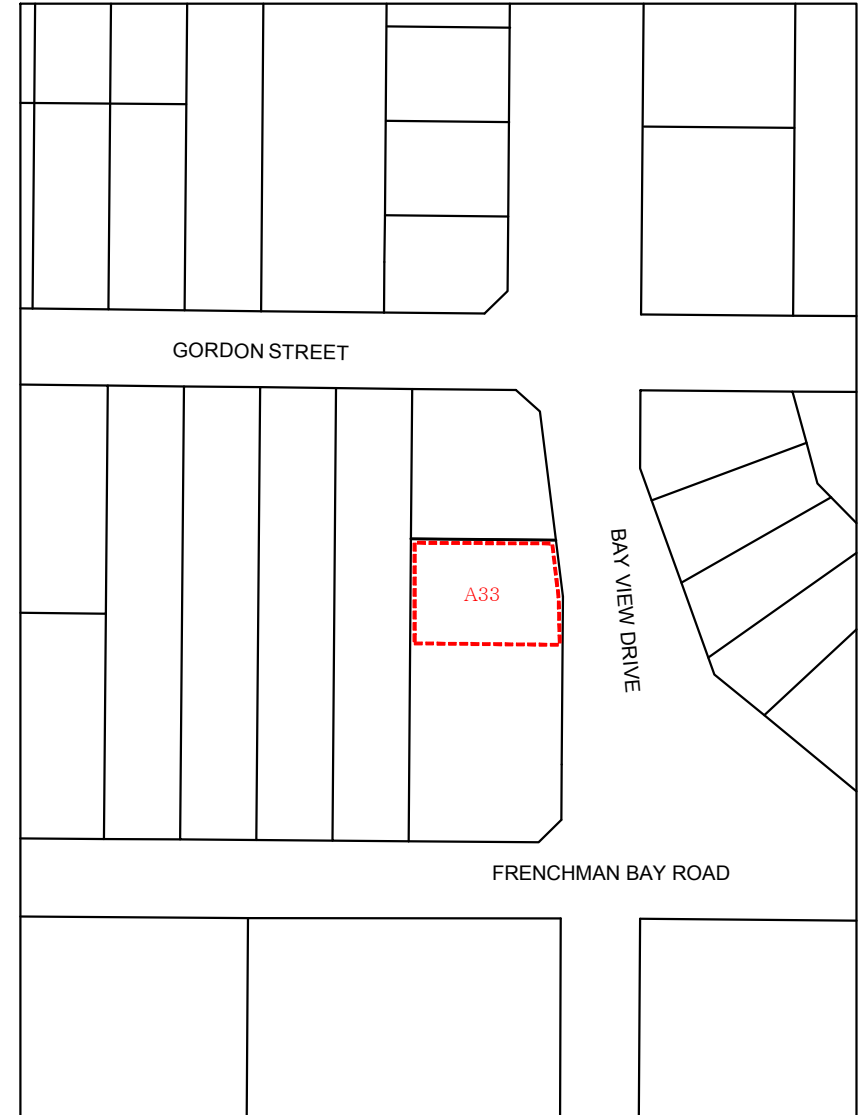
- R20 R Codes
- A1 Additional uses
- Public drinking water sources special control areas (see c.6.3)



ORIG A4
SCALE 1:2000



Proposed Zoning



ADOPTION

Adopted by resolution of the Council of the City of Albany at the Meeting of the Council held on the _____ day of _____ 20_____.

Mayor

Chief Executive Officer

FINAL APPROVAL

Adopted for final approval by resolution of the City of Albany at the Meeting of the Council held on the _____ day of _____ 20_____ and the Common Seal of the City of Albany was hereunto affixed by the authority of a resolution of the Council in the presence of:

Mayor

Chief Executive Officer

Recommended/Submitted for Final Approval

**Delegated Under S.16
of the PD Act 2005**

Date

Final Approval Granted

Minister for Planning

Date

APPENDIX A

**BAL CONTOUR PLAN AND
BUSHFIRE MANAGEMENT PLAN**

BIO DIVERSE SOLUTIONS

JUNE 2018

BAL Contour Plan and Bushfire Management Plan (BMP)

| Site Details | | | |
|---------------------------------------|--------------------------|---------------|------|
| Address: | Lot 1 Frenchman Bay Road | | |
| Suburb: | Little Grove | State: | W.A. |
| Local Government Area: | City of Albany | | |
| Description of Building Works: | N/A | | |
| Stage of WAPC Planning | Rezoning | | |

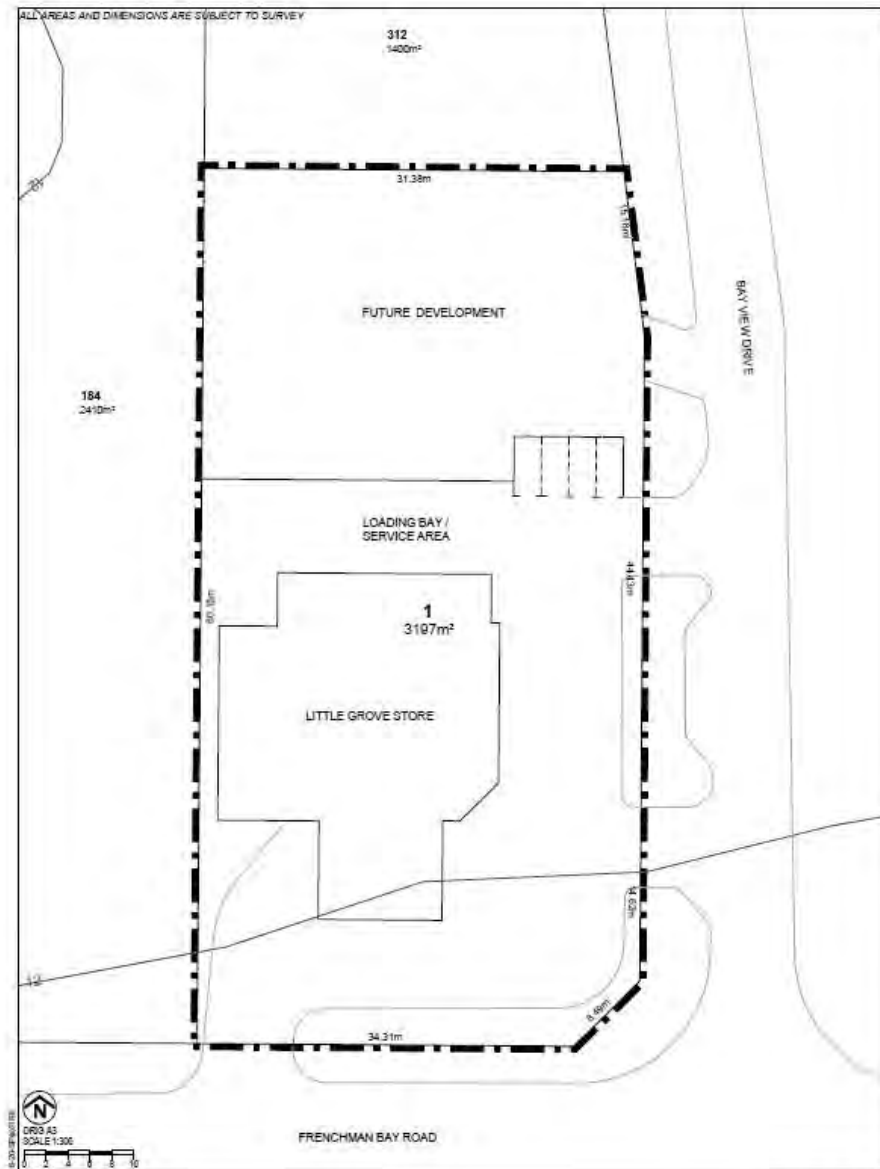
| BAL Contour Plan Details | | | |
|-----------------------------|-----------------|--------------------------|-----------------|
| Report / Job Number: | AB0030 | Report Version: | FINAL version 1 |
| Assessment Date: | 12/03/2018 | Report Date: | 20/06/2018 |
| BPAD Practitioner | Kathryn Kinnear | Accreditation No. | BPAD30794 |



SECTION 1: Proposal details

Lot 1 Frenchman Bay Road is zoned 'Local Centre' and the purpose of the Scheme Amendment is to allow residential and mixed-use development by designating 'Grouped Housing and 'Multiple Housing' as discretionary uses within the zone. An R30 Density Code is proposed. These uses are currently not permitted in the zone. The City of Albany's 'Activities Centre Planning Strategy' (2010) recommends that Local Centres should be encouraged to include residential uses.

The subject site is located in the municipality of the City of Albany (CoA) in the locality of Little Grove. The northern portion of the site is undeveloped land/vacant land. The southern portion of the site has an existing shop/fuel station. Refer to the Site Plan Figure 1 and Locality Plan Figure 2. The subject site is located in the WA bushfire prone area mapping (SLIP, 2018), refer to Figure 3.



AYTON BAESJOU
 PLANNING
 55 Park Place
 ALBANY WA 6170
 PH 3842 2304 Fax 3842 2894

SITE PLAN
 Lot 1 Frenchman Bay Road
 & Bay View Drive
 Little Grove, City of Albany

Figure 1: Site plan

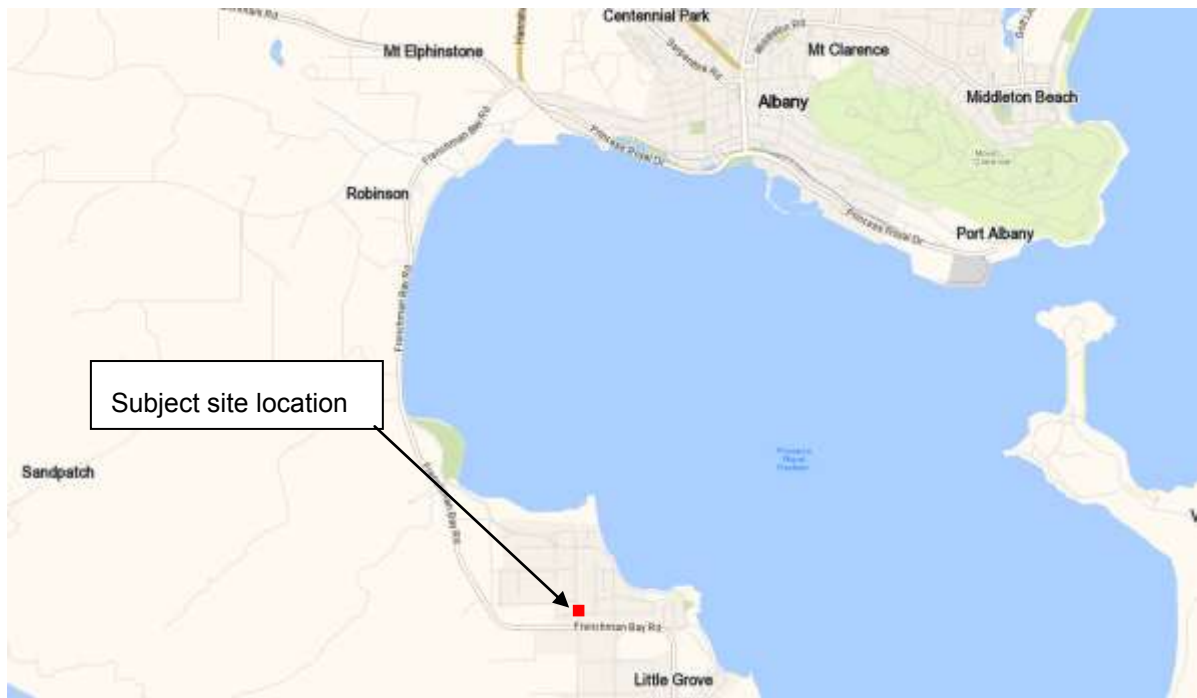


Figure 2: Location Plan



Figure 3: State Bushfire Prone Area Mapping (SLIP 2018)

SECTION 2: Environmental Considerations

Vegetation modification proposed: Vegetation clearing of the northern portion of the site is proposed to enable future site development/construction. The southern portion is cleared for buildings and parking.

Re-vegetation/landscape plans: No revegetation or landscaping plans are proposed for the proposal.

SECTION 3: Assessment Results**SECTION 3.1 – Assessment Inputs**

Bushfire Assessment inputs for the site has been calculated using the Method 1 procedure as outlined in AS3959-2009. This incorporates the following factors:

- WA adopted Fire Danger Index (FDI), being FDI 80;
- Vegetation Classes;
- Slope under classified vegetation; and
- Distance between proposed development site and classified vegetation.

Vegetation Classification (Bushfire Fuels)

All vegetation within 150m of the site / proposed development was classified in accordance with Table 2.3 and Exclusion clauses 2.2.3.2 of AS 3959-2009. Each distinguishable vegetation plot with the potential to determine the Bushfire Attack Level is identified in the following pages and shown on the Vegetation Classes Map (Figure 4) page 5.

REPORT ITEM DIS 117 REFERS

This BAL Plan was prepared by
 Kathryn Kieneer, Bio Diverse Solutions
 Accreditation No. BPA030794
 Jurisdiction: Level 2 - WA



29 Hercules Crescent
 Albany, WA 6330
 Australia
 Tel: 08 9842 1575
 Fax: 08 9842 1575



Overview Map Scale 1:100,000

Legend

- Subject Site
 - Existing Building
 - 100m Assessment Boundary
 - 150m Assessment Boundary
 - Cadastre
 - Photo Point
 - 1m Contours
 - Separation Distance
 - Future Low Fuel
- Vegetation**
- Forest Type A
 - Woodland Type B
 - Grassland Type G
 - Low fuel or non vegetated 2.2.3.2



Scale
 1:1,250 @ A3
 GDA MGA 94 Zone 50

Data Sources
 Aerial Imagery: WA Now, Landgate Subscription Imagery
 Cadastre, Relief Contours and Roads: Landgate 2017
 IRIS Road Network: Main Roads Western Australia 2017
 Overview Map: World Topographic map service, ESRI 2012

CLIENT
 Nick Ayton
 Ayton Baesjou Planning
 Lot 1 Frenchman Bay Road
 Little Grove, WA 6330

Vegetation Classes

| | | |
|--------------|----------|------------|
| BAL Assessor | QA Check | Drawn By |
| KK | KK | BT |
| STATUS | FILE | DATE |
| FINAL | AB0030 | 18/06/2018 |

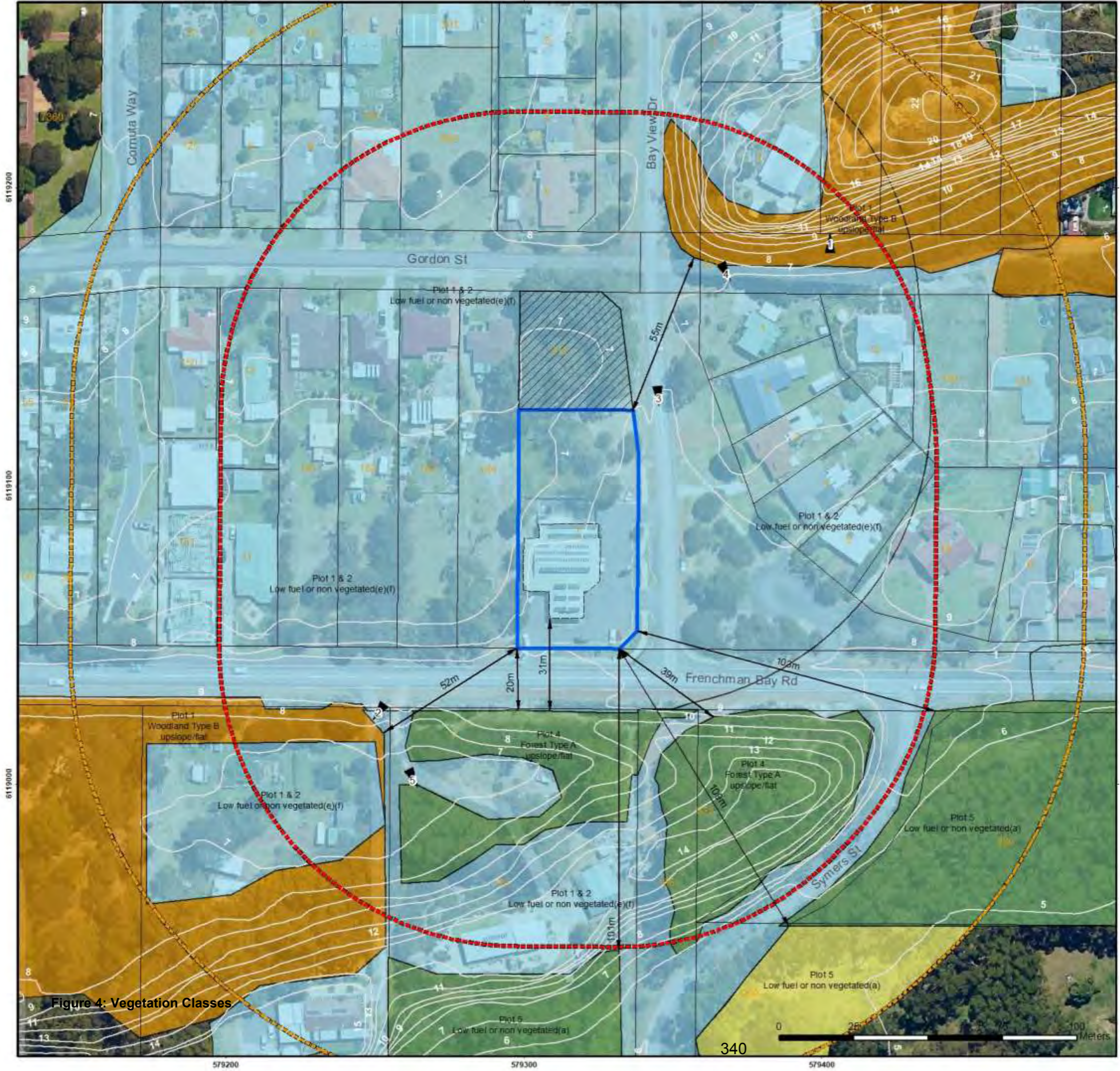


Figure 4: Vegetation Classes


| Plot | 1 | Classification or Exclusion Clause | Woodland Type B |
|---|---|---|-----------------|
|  | | <p>Location: North east of the subject site near the Gordon Street and Bay View Drive intersection.</p> <p>Separation distance: 55m to the north east and 52m to the south west.</p> <p>Dominant species & description: Peppermint trees, with a small amount of coastal vegetation as understorey.</p> <p>Average vegetation height: 8m.</p> <p>Vegetation Coverage: 10-30%.</p> <p>Available fuel loading: 15-25t/ha.</p> <p>Effective slope: Upslope.</p> | |

Photo Id 1: View looking north through Plot 1 to the north east of the subject site.


| Plot | 1 | Classification or Exclusion Clause | Woodland Type B |
|--|---|---|-----------------|
|  | | <p>Location: South west along Frenchman Bay Road.</p> <p>Separation distance: 55m to the north east and 52m to the south west.</p> <p>Dominant species & description: Peppermint trees, with a small amount of coastal vegetation as understorey.</p> <p>Average vegetation height: 8m.</p> <p>Vegetation Coverage: 10-30%.</p> <p>Available fuel loading: 15-25t/ha.</p> <p>Effective slope: Upslope.</p> | |

Photo Id 2: View looking into Woodland Type B situated to the south west (south of Frenchman Bay Road).


| Plot | 2 | Classification or Exclusion Clause | Low fuel or non-vegetated areas exclusion 2.2.3.2 (e) |
|--|---|------------------------------------|---|
|  | | | <p>Location: Located to the east, north, west and south of the subject site in existing urban area.</p> <p>Description: All roads, driveways, buildings and other non-vegetated areas. As per AS3959-2009 exclusion clause 2.2.3.2 (e).</p> |

Photo Id 3: View looking south along Bay View Drive.



| Plot | 3 | Classification or Exclusion Clause | Low fuel or non-vegetated areas exclusion 2.2.3.2 (f) |
|--|---|------------------------------------|---|
|  | | | <p>Location: Located to the east, north, west and south of the subject site in existing urban area.</p> <p>Description: Managed gardens, lawns and other low-threat fuel areas. As per AS3959-2009 exclusion clause 2.2.3.2 (f).</p> <p>Available fuel loading: <2t/ha.</p> |

Photo Id 4: View of maintained garden to the north east of the subject site.

| Plot | 4 | Classification or Exclusion Clause | Forest Type A |
|---|---|------------------------------------|--|
|  | | | <p>Location: South of Frenchman Bay Road in private property.</p> <p>Separation distance: 20-39m.</p> <p>Dominant species & description: Peppermint trees and occasional Karri trees, Closed low forest. Mid and understorey of sedges, juvenile trees, herbs and grasses.</p> <p>Average vegetation height: 8-10m, occasional 15-20m (Karri).</p> <p>Vegetation Coverage: >30-70% foliage cover.</p> <p>Available fuel loading: 25-35t/ha.</p> <p>Effective slope: Upslope.</p> |
| <p><i>Photo Id 6: View of Forest Type A taken within private property to the south.</i></p> | | | |
| Plot | 5 | Classification or Exclusion Clause | Low fuel or non-vegetated areas exclusion 2.2.3.2 (a) |
| <p style="text-align: center;"><i>No photo available</i></p> | | | <p>Location: Vegetation located south and south east of the subject site to the south of Frenchman Bay Road.</p> <p>Separation distance: 101-103m.</p> <p>Description: Areas of vegetation excluded as located >100m from subject site boundary as per exclusion clause 2.2.3.2 (a) of AS3959-2009.</p> |

COMMENTS ON VEGETATION CLASSIFICATIONS

- Distances from vegetation were made based on surface fuels to edge of lot (subject site) boundary;
- Effective slopes were measured in the field using a Nikon Forestry Pro and represented on the respective plots;
- Method 1 (AS3959-2009) Simplified procedure was used for vegetation classification process;
- All vegetation was classified within the subject site and within 150m of the lot boundaries to Table 2.3 and Exclusions 2.2.3.2 (a-f) of AS3959; and
- The perimeter of the vegetation was measured using field GPS and notations on field GIS maps.

SECTION 3.2 Bushfire Assessment Outputs

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below (Table 1) and shown on the BAL Contour Plan Page 10.

Table 1 - Potential Bushfire impacts to AS3959

| Lot number | Vegetation Type (Table 2.3) | Slope (Table 2.4.3) | Separation distance to vegetation (m) | Highest BAL Contour | Modified BAL Contour |
|-------------------|-----------------------------|---------------------|---------------------------------------|---------------------|----------------------|
| 1 | Woodland Type B (Plot 1) | Upslope | 52m | BAL 12.5 | BAL 12.5 can apply |
| | Forest Type A (Plot 4) | Upslope | 20m | BAL 29 | BAL 12.5 can apply |
| Existing Building | Forest Type A (Plot 4) | Upslope | 31m | BAL 19 | BAL 19 can apply |

It is noted in Table 1 that where multiple BAL ratings apply - the highest BAL is always to apply. The final BAL allocation is dependent on final placement of the dwelling on the lot. BAL assessments may be considered on the lot by the new owners when dwelling design/ placement is known and can be undertaken at building approval stages with the engagement of an Accredited Level 1 BAL Assessor.

NOTES ON BAL ASSESSMENT

- The BAL Contour Plan was prepared by an Accredited Level 2 Bushfire Planning Practitioner (BPAD30794); and
- The BAL Contour Map has been prepared in accordance with Department of Planning (WAPC) Guidelines for Planning in Bushfire Prone Areas Version 1.3 (WAPC, 2017);
- Subdivision based on plan of subdivision as supplied by Ayton Baesjou Planning, (Figure 1)
- Subject site is located in a Bushfire Prone Area; see Figure 3 (SLIP, 2017).
- APZ areas will be maintained in a Low Fuel state as per APZ standards in the Guidelines for Planning in Bushfire Prone Areas Version 1.3(WAPC, 2017) and CoA Fire Management Notice. Refer to Appendix A.
- All new buildings are to be placed in BAL 12.5 zones.



Figure 5: BAL Contour Plan

REPORT ITEM DIS 117 REFERS

This BAL Plan was prepared by
 Kathryn Kinnear, Bio Diverse Solutions
 Accreditation No. BPAD30794
 Jurisdiction: Level 2 - WA



29 Hercules Crescent
 Albany, WA 6330
 Australia
 Tel: 08 9842 1575
 Fax: 08 9842 1575



Overview Map Scale 1:100,000

Legend

- Subject Site
- Existing Building
- 100m Assessment Boundary
- 150m Assessment Boundary
- Cadastre
- BAL Contours**
- BAL-FZ
- BAL-40
- BAL-29
- BAL-19
- BAL-12.5
- BAL-LOW



Scale
 1:1,250 @ A3
 GDA MGA 94 Zone 50

Data Sources
 Aerial Imagery: WA Now, Landgate Subscription Imagery
 Cadastre, Relief Contours and Roads: Landgate 2017
 IRIS Road Network: Main Roads Western Australia 2017
 Overview Map: World Topographic map service, ESRI 2012

CLIENT
 Nick Ayton
 Ayton Baesjou Planning
 Lot 1 Frenchman Bay Road
 Little Grove, WA 6330

BAL Contour Plan

| | | |
|---------------------------|-----------------------|---------------------------|
| BAL Assessor KK | QA Check KK | Drawn by BT |
| STATUS FINAL | FILE AB0030 | DATE 18/06/2018 |

SECTION 4: Identification of Bushfire Impacts

The bushfire threats associated with the subject site are the continuous remnant Woodland vegetation located to the north east in Gordon Street Road Reserve and to the south west in private property located along Frenchman Bay Road. Continuous Woodland Type B vegetation occurs in this area which has been modified in the urban landscape, however is not managed. There is also continuous Forest Type A vegetation located to the south of the subject site situated to the south of Frenchman Bay Road.

To the north, south and west all properties have applied the CoA Fire Management Notice and fuel reduced their property. Continuous vegetation occurs linking along to Gordon Street to the east which can act as a “wick” into the Little Grove urban area. It is recommended for the safety of residents in the area, the CoA Fire Management Notice is applied in residential lots and fuel reduction occurs.

Surrounding the subject site to the north, south, east and west is existing residential area which is classified low fuel or non-vegetated areas as per exclusion clauses 2.2.3.2 of AS3959.

SECTION 5: ASSESSMENT TO GUIDELINES FOR PLANNING IN BUSHFIRE PRONE AREAS

The Bushfire Protection Criteria have been provided by WAPC in the “Guidelines for Planning in Bushfire Prone Areas” (WAPC, 2017) to assist the assessment of the proposal in bushfire prone areas. The BMP report assesses the proposal to the “Acceptable Solutions” of the four elements a summary of this assessment is outlined over the page (Table 2).

Table 2: Bushfire protection criteria applicable to the site

| Element | Acceptable Solution | Applicable or not Yes/No | Meets Acceptable Solution |
|-------------------------------|----------------------------|--------------------------|--|
| Element 1 – Location | A1.1 Development Location | Yes | Compliant. BAL 12.5 will apply to any future buildings on site, BAL 29 applies to the existing building, meeting acceptable solution A1.1 |
| Element 2 – Siting and Design | A2.1 Asset Protection Zone | Yes | Compliant. An APZ area will apply to the whole of the lot and will also utilise the surrounding existing low fuel areas of Bayview Drive and Gordon Street. APZ standards to be as per WAPC requirements, refer to Appendix A. An APZ area consistent with 12.5 will apply which is compliant to the WAPC guidelines. |
| Element 3 – Vehicular Access | A3.1 Two Access Routes | Yes | Compliant. Access is via future driveways onto Bay View Drive (north/south) where people can reach two separate destinations to the west and east and/or north and south depending on the bushfire attack direction. Access to the existing Little Grove Store is onto Bay View Drive (north/south) and Frenchman Bay Road (east/west). Although Frenchman Bay Road to the south is ultimately a dead-end road, this is deemed a legacy issue to the Little Grove suburb. |
| | A3.2 Public Road | No | No public roads are proposed. Not assessed to A3.2. |
| | A3.3 Cul-de-sacs | No | No cul-de-sacs are proposed. Not assessed to A3.3. |
| | A3.4 Battle axes | No | No battle axes are proposed. Not assessed to A3.4. |

Table 2 cont.

| Element | Acceptable Solution | Applicable or not Yes/No | Meets Acceptable Solution |
|------------------------------|---|--------------------------|--|
| Element 3 – Vehicular Access | A3.5 Private driveways | Yes | Compliant. A driveway is to be installed to 4m trafficable surface and 6m horizontal clearance. To be conditioned through the DA approvals process. |
| | A3.6 Emergency Access Ways | No | No EAWs proposed as the public road network will be utilised. Not assessed to A3.6. |
| | A3.7 Fire Service Access Ways | No | No FSA's proposed as the public road network will be utilised. Not assessed to A3.7. |
| | A3.8 Firebreaks | Yes | Firebreaks and fuel loads are to be compliant to CoA Fire Break Notice. |
| Element 4 – Water | A4.1 Reticulated areas | Yes | Not assessed to A4.1. |
| | A4.2 Non-reticulated areas | No | Not assessed to A4.2. |
| | A4.3 Individual lots in non-reticulated areas | No | Compliant. Water supply will be through the extension of the existing reticulated scheme water into the area. Connections are known to be available. Standards are to be as per WCWA and approval by the CoA. |

SECTION 6: IMPLEMENTATION ACTIONS

The responsibilities of the developer(s), Landowners and local government are shown in Table 3.

Table 3 – Implementation Actions

| Developer – Prior to issue of titles | | |
|---|---|--------------------------|
| No | Implementation Action | |
| 1 | APZ areas to apply to the whole of the lot and to be maintained as per WAPC (Appendix A) and CoA requirements by the Developer until lots are relinquished to new owners. | <input type="checkbox"/> |
| 3 | A driveway cross over to be designated/ installed off for access into subject site (min of 4m wide stabilised and 6m wide clearance). | <input type="checkbox"/> |
| 4 | Reticulated water supplied to the site to WCWA requirements and to CoA approval. | <input type="checkbox"/> |

SECTION 7: DISCLAIMER

The recommendations and measures contained in this assessment report are based on the requirements of the Australian Standards 3959-2009 – Building in Bushfire Prone Areas, WAPC State Planning Policy 3.7 (WAPC, 2015), WAPC Guidelines for Planning in Bushfire Prone Areas (WAPC, 2015), and CSIRO’s research into Bushfire behaviour. These are considered the minimum standards required to balance the protection of the proposed dwelling and occupants with the aesthetic and environmental conditions required by local, state and federal government authorities. They DO NOT guarantee that a building will not be destroyed or damaged by a bushfire. All surveys and forecasts, projections and recommendations made in this assessment report and associated with this proposed dwelling are made in good faith on the basis of the information available to the fire protection consultant at the time of assessment. The achievement of the level of implementation of fire precautions will depend amongst other things on actions of the landowner or occupiers of the land, over which the fire protection consultant has no control. Notwithstanding anything contained within, the fire consultant/s or local government authority will not, except as the law may require, be liable for any loss or other consequences (whether or not due to negligence of the fire consultant/s and the local government authority, their servants or agents) arising out of the services rendered by the fire consultant/s or local government authority.

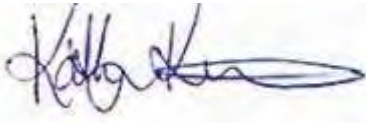
AS3959-2009 disclaimer: It should be borne in mind that the measures contained within this Standard (AS3959-2009) cannot guarantee that a building will survive a bushfire event on every occasion. This is substantially due to the unpredictable nature and behaviour of fire and extreme weather condition.

Building to AS3959-2009 is a standard primarily concerned with improving the ability of buildings in designated bushfire prone areas to better withstand attack from bushfire thus giving a measure of protection to the building occupants (until the fire front passes) as well as to the building itself.

(AS3959, 2009)

SECTION 8: Certification

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2009 (Incorporating Amendment Nos 1, 2 and 3) and the Guidelines for Planning in Bushfire Prone Areas Ver. 1.3 (WAPC, 2017).

SIGNED, ASSESSOR: ..  DATE:

Kathryn Kinnear, Bio Diverse Solutions
Accredited Level 2 Bushfire Practitioner (Accreditation No: BPAD30794)



References

Western Australian Planning Commission (WAPC) (2017) Guidelines for Planning in Bushfire Prone Areas Version 1.3. Western Australian Planning Commission and Department of Planning WA, Government of Western Australia.

Western Australian Planning Commission (WAPC) (2015) State Planning Policy 3.2 Planning in Bushfire Prone Areas. Department of Planning WA and Western Australian Planning Commission.

State Land Information Portal (SLIP) (2018) Map of Bushfire Prone Areas. Office of Bushfire Risk Management (OBRM) data retrieved from:
<https://maps.slip.wa.gov.au/landgate/bushfireprone/>

REVISION RECORD

| Revision | Summary | Revised By | Date |
|---------------------------|--------------------|---------------|-----------|
| DRAFT ID 18/6/2018 | Internal QA review | Bianca Theyer | 18/6/2018 |
| Issued to client as final | | Bianca Theyer | 20/6/2018 |

Appendix A

Standards for an Asset Protection Zone (APZ) (WAPC, 2017)

Fences: Within the APZ are constructed from non-combustible materials (e.g. iron, brick, limestone, metal post and wire). It is recommended that solid or slatted non-combustible perimeter fences are used.

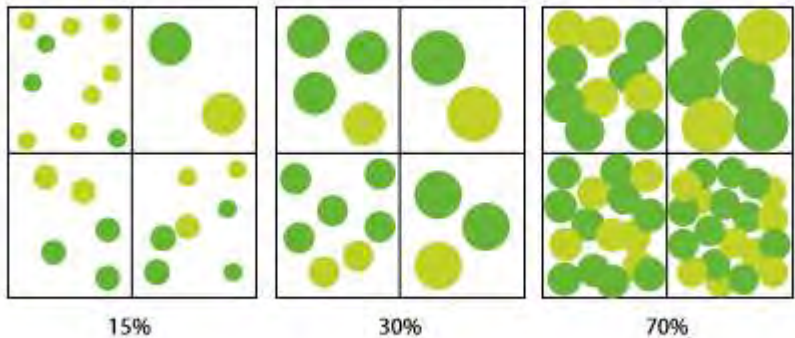
Objects: Within 10 metres of a building, combustible objects must not be located close to the vulnerable parts of the building i.e. windows and doors.

Fine Fuel load: Combustible dead vegetation matter less than 6 millimetres in thickness reduced to and maintained at an average of two tonnes per hectare.

Trees (> 5 metres in height): Trunks at maturity should be a minimum distance of 6 metres from all elevations of the building, branches at maturity should not touch or overhang the building, lower branches should be removed to a height of 2 metres above the ground and or surface vegetation, canopy cover should be less than 15% with tree canopies at maturity well spread to at least 5 metres apart as to not form a continuous canopy. See Figure 2 (WAPC Figure 16, Appendix 4) below.

Figure 2 – Tree Canopy Cover

Figure 16: Tree canopy cover – ranging from 15 to 70 per cent at maturity



(WAPC, 2017)

Shrubs (0.5 metres to 5 metres in height): Should not be located under trees or within 3 metres of buildings, should not be planted in clumps greater than 5m² in area, clumps of shrubs should be separated from each other and any exposed window or door by at least 10 metres. Shrubs greater than 5 metres in height are to be treated as trees.

Ground covers (<0.5 metres in height): Can be planted under trees but must be properly maintained to remove dead plant material and any parts within 2 metres of a structure, but 3 metres from windows or doors if greater than 100 millimetres in height. Ground covers greater than 0.5 metres in height are to be treated as shrubs.


Grass: Should be managed to maintain a height of 100 millimetres or less.

CITY OF ALBANY

REPORT

To : His Worship the Mayor and Councillors
From : Administration Officer - Planning
Subject : Development Application Approvals – July 2018
Date : 1 July 2018

1. The attached report shows Development Application Approvals issued under delegation by a planning officer for the month of July 2018.
2. Within this period 52 Development applications were determined, of these;
 - 52 Development applications were approved under delegated authority;



Michelle Gray
Information Officer – Development Services

| Application Number | Application Date | Street Address | Locality | Description of Application | Decision | Decision Date | Assessing Officer |
|--------------------|------------------|--------------------|----------------|--|-------------------|---------------|-------------------|
| P2180346 | 4/07/2018 | Hereford Way | Milpara | Single House (Outbuilding and Water Tanks x 2) | Delegate Approved | 17/07/2018 | Alex Bott |
| P2180356 | 13/07/2018 | Chester Pass Road | Milpara | Development (Lean To) | Delegate Approved | 23/07/2018 | Jessica Anderson |
| P2180203 | 26/04/2018 | Middleton Road | Mira Mar | Development (Signs & Fence) | Delegate Approved | 17/07/2018 | Craig McMurtrie |
| P2180240 | 11/05/2018 | McLeod Street | Mira Mar | Single House (Additions) | Delegate Approved | 30/07/2018 | Jessica Anderson |
| P2180293 | 7/06/2018 | Shorts Place | Mira Mar | Single House (Additions) | Delegate Approved | 18/07/2018 | Taylor Gunn |
| P2180320 | 19/06/2018 | Middleton Road | Mira Mar | Lunch Bar (Container Kiosk) | Delegate Approved | 10/07/2018 | Alex Bott |
| P2180360 | 13/07/2018 | Anderson Place | Mira Mar | Development (Earthworks & Retaining Walls) | Delegate Approved | 24/07/2018 | Jessica Anderson |
| P2180330 | 27/06/2018 | Suffolk Street | Mount Clarence | Single House - Alterations & Additions | Delegate Approved | 3/07/2018 | Taylor Gunn |
| P2180332 | 27/06/2018 | Middleton Road | Mount Clarence | Change of Use - Holiday Accommodation to Grouped Dwelling (Units 129 & 10) | Delegate Approved | 12/07/2018 | Taylor Gunn |
| P2180344 | 4/07/2018 | Apex Drive | Mount Clarence | Telecommunications Upgrade - Optic Fibre Cable Installation | Delegate Approved | 12/07/2018 | Taylor Gunn |
| P2180272 | 29/05/2018 | Chester Pass Road | Orana | Single House & Consulting Rooms | Delegate Approved | 31/07/2018 | Craig McMurtrie |
| P2180335 | 29/06/2018 | Albany Highway | Orana | Single House Retaining Walls & Demolition of Existing House | Delegate Approved | 10/07/2018 | Taylor Gunn |
| P2180321 | 20/06/2018 | Wiltshire Crescent | Warrenup | Single House Outbuilding & Rainwater Tank | Delegate Approved | 23/07/2018 | Jessica Anderson |
| P2180343 | 4/07/2018 | Bottrell Close | Warrenup | Single House - Additions (Patio x 2) | Delegate Approved | 9/07/2018 | Jessica Anderson |
| P2180308 | 15/06/2018 | Old Boundary Road | Wellstead | Industry - Extractive (Gravel) | Delegate Approved | 17/07/2018 | Jessica Anderson |
| P2180347 | 5/07/2018 | Greenwood Drive | Willyung | Single House - Outbuilding (Shed) | Delegate Approved | 9/07/2018 | Jessica Anderson |
| P2180295 | 7/06/2018 | Chester Pass Road | Yakamia | Single House | Delegate Approved | 27/07/2018 | Craig McMurtrie |
| P2180370 | 20/07/2018 | Notley Street | Yakamia | Single House (Outbuilding) | Delegate Approved | 24/07/2018 | Jessica Anderson |

| Application Number | Application Date | Street Address | Locality | Description of Application | Decision | Decision Date | Assessing Officer |
|--------------------|------------------|---------------------|-----------------|---|-------------------|---------------|-------------------|
| P2180241 | 11/05/2018 | Aldo Close | Kalgan | Ancillary Accommodation Outbuilding & Water Tank | Delegate Approved | 18/07/2018 | Taylor Gunn |
| P2180298 | 8/06/2018 | Riverside Road | Kalgan | Rural Pursuit (Produce) | Delegate Approved | 24/07/2018 | Jessica Anderson |
| P2180319 | 19/06/2018 | Henty Road | Kalgan | Single House (Patio) | Delegate Approved | 27/07/2018 | Craig McMurtrie |
| P2180333 | 28/06/2018 | Henty Road | Kalgan | Approval of Existing Development - Single House - Outbuilding (x4) | Delegate Approved | 3/07/2018 | Taylor Gunn |
| P2180365 | 17/07/2018 | South Coast Highway | Kalgan | Single House (Deck) | Delegate Approved | 24/07/2018 | Taylor Gunn |
| P2180336 | 2/07/2018 | Greatrex Road | King River | Agriculture- Intensive - Storage Shed | Delegate Approved | 12/07/2018 | Taylor Gunn |
| P2180309 | 15/06/2018 | Coombes Road | Kronkup | Single House Building Envelope & Rainwater Tank | Delegate Approved | 25/07/2018 | Taylor Gunn |
| P2180366 | 17/07/2018 | Bandicoot Drive | Lange | Single House (Outbuilding Retaining & 2 Rainwater Tanks) | Delegate Approved | 23/07/2018 | Jessica Anderson |
| P2180359 | 13/07/2018 | O'Connell Street | Little Grove | Single House (Balcony Addition) | Delegate Approved | 23/07/2018 | Jessica Anderson |
| P2180373 | 20/07/2018 | Hillview Rise | Lower King | Single House (Outbuilding & Rainwater Tank) | Delegate Approved | 30/07/2018 | Jessica Anderson |
| P2180375 | 23/07/2018 | Lower King Road | Lower King | Single House | Delegate Approved | 27/07/2018 | Taylor Gunn |
| P2180148 | 22/03/2018 | Link Road | Marbelup | Dam | Delegate Approved | 9/07/2018 | Alex Bott |
| P2180338 | 2/07/2018 | Ajana Drive | Marbelup | Single House | Delegate Approved | 3/07/2018 | Alex Bott |
| P2180361 | 13/07/2018 | Kempton Close | Marbelup | Development (Personal Climbing Tower) | Delegate Approved | 27/07/2018 | Alex Bott |
| P2180287 | 6/06/2018 | Comet Corner | McKail | Single House (Outbuilding) | Delegate Approved | 5/07/2018 | Taylor Gunn |
| P2180294 | 7/06/2018 | Dustan Way | McKail | Single House | Delegate Approved | 5/07/2018 | Jessica Anderson |
| P2180354 | 12/07/2018 | Parmelia Way | McKail | Single House - Outbuilding (Setback Variation) | Delegate Approved | 17/07/2018 | Taylor Gunn |
| P2180340 | 3/07/2018 | Middleton Road | Middleton Beach | Ancillary Accommodation | Delegate Approved | 18/07/2018 | Taylor Gunn |
| P2180325 | 26/06/2018 | Albany Highway | Milpara | Approval of Existing Development - Conversion to Single House & Outbuilding | Delegate Approved | 30/07/2018 | Taylor Gunn |

PLANNING SCHEME CONSENTS ISSUED UNDER DELEGATED AUTHORITY

Applications determined for JULY 2018

| Application Number | Application Date | Street Address | Locality | Description of Application | Decision | Decision Date | Assessing Officer |
|--------------------|------------------|----------------------|---------------------|--|-------------------|---------------|--------------------|
| P2180243 | 10/05/2018 | Proudlove Parade | Albany | Ticketing Office and Bus Station | Delegate Approved | 2/07/2018 | Jan van der Mescht |
| P2180326 | 26/06/2018 | Vancouver Street | Albany | Single House | Delegate Approved | 30/07/2018 | Taylor Gunn |
| P2180349 | 10/07/2018 | Hill Street | Albany | Single House (Outbuilding) | Delegate Approved | 19/07/2018 | Jessica Anderson |
| P2180314 | 18/06/2018 | Benalla Drive | Bayonet Head | Single House (Outbuilding) | Delegate Approved | 6/07/2018 | Alex Bott |
| P2180334 | 28/06/2018 | McCardell Crescent | Bayonet Head | Single House - Outbuilding & Patio | Delegate Approved | 9/07/2018 | Jessica Anderson |
| P2180105 | 6/03/2018 | Frenchman Bay Road | Big Grove | Change of Use - Dwelling to Chalet/Cottage Unit & Outbuilding | Delegate Approved | 2/07/2018 | Taylor Gunn |
| P2180280 | 1/06/2018 | Wellington Street | Centennial Park | Upgrade Drainage (Biofiltration Wetland); Parking and Road Access | Delegate Approved | 12/07/2018 | Alex Bott |
| P2180299 | 11/06/2018 | Barker Road | Centennial Park | Development (Biofuel Boiler) | Delegate Approved | 5/07/2018 | Jessica Anderson |
| P2180350 | 11/07/2018 | Pioneer Road | Centennial Park | Single House | Delegate Approved | 17/07/2018 | Taylor Gunn |
| P2180274 | 30/05/2018 | Michaelmas Way | Collingwood Heights | Single House | Delegate Approved | 5/07/2018 | Jessica Anderson |
| P2180355 | 12/07/2018 | Deborah Court | Collingwood Heights | Single House (Garage) | Delegate Approved | 23/07/2018 | Alex Bott |
| P2180220 | 3/05/2018 | Old School Road | Elleker | Reception Centre | Delegate Approved | 6/07/2018 | Alex Bott |
| P2180328 | 27/06/2018 | Birss Street | Emu Point | Sporting Club - Additions (Ramp & Toilets) | Delegate Approved | 12/07/2018 | Alex Bott |
| P2180380 | 27/07/2018 | Bottlebrush Road | Gledhow | Single House | Delegate Approved | 31/07/2018 | Taylor Gunn |
| P2180237 | 11/05/2018 | Stockwell Road | Gnowellen | Industry - Extractive (Gravel) | Delegate Approved | 30/07/2018 | Craig McMurtrie |
| P2170439 | 18/08/2017 | Two Peoples Bay Road | Kalgan | Industry - Rural (Arborist Storage Yard/Depot) and Earthworks in excess of 600mm | Delegate Approved | 18/07/2018 | Craig McMurtrie |

CITY OF ALBANY

REPORT

To : His Worship the Mayor and Councillors
From : Information Officer - Development Services
Subject : Building Activity – July 2018
Date : 01/08/2018

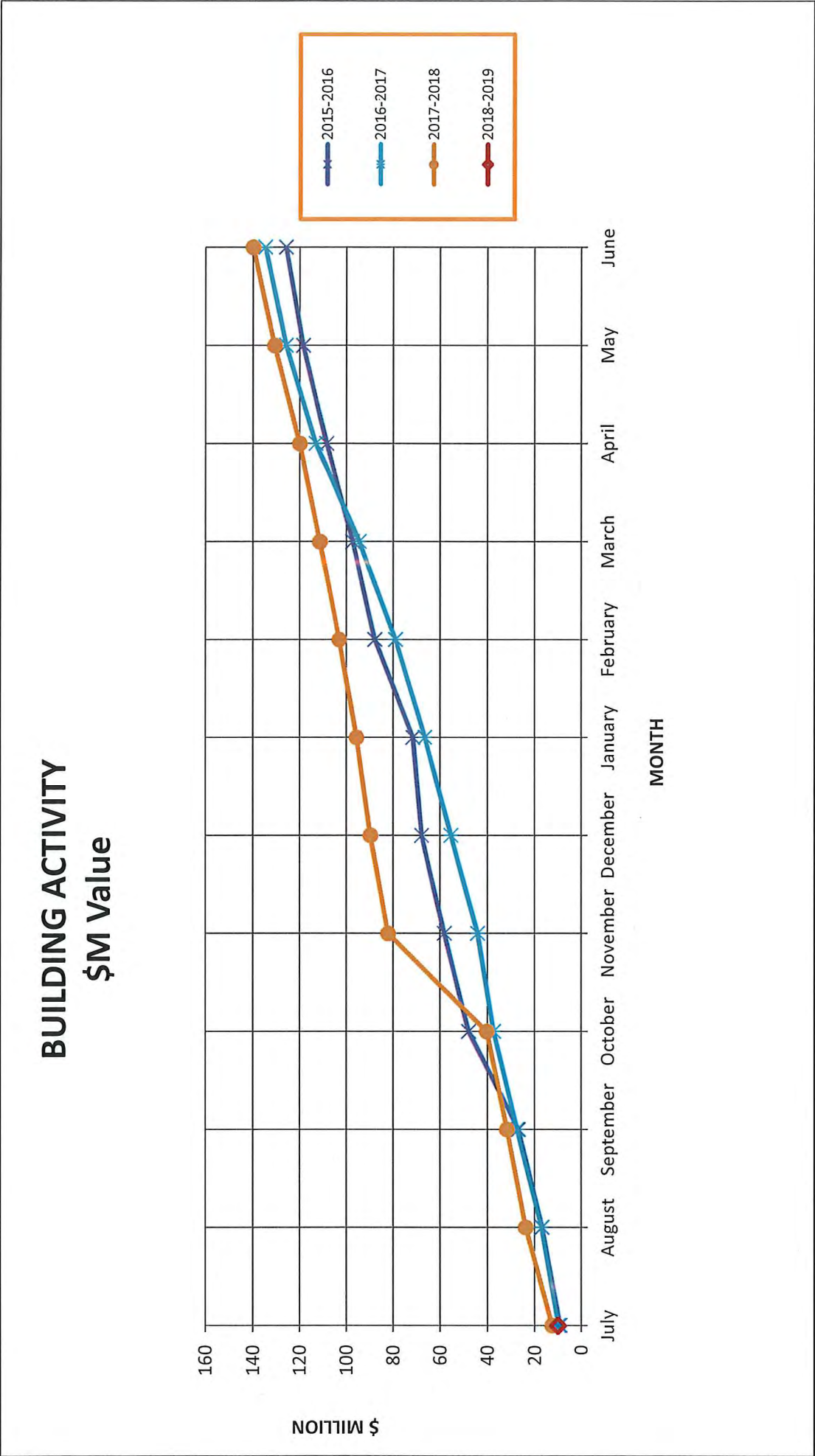
1. In July 2018, eighty four (84) building permits were issued for building activity worth \$10,055,045.00. This included three (3) demolition licences.

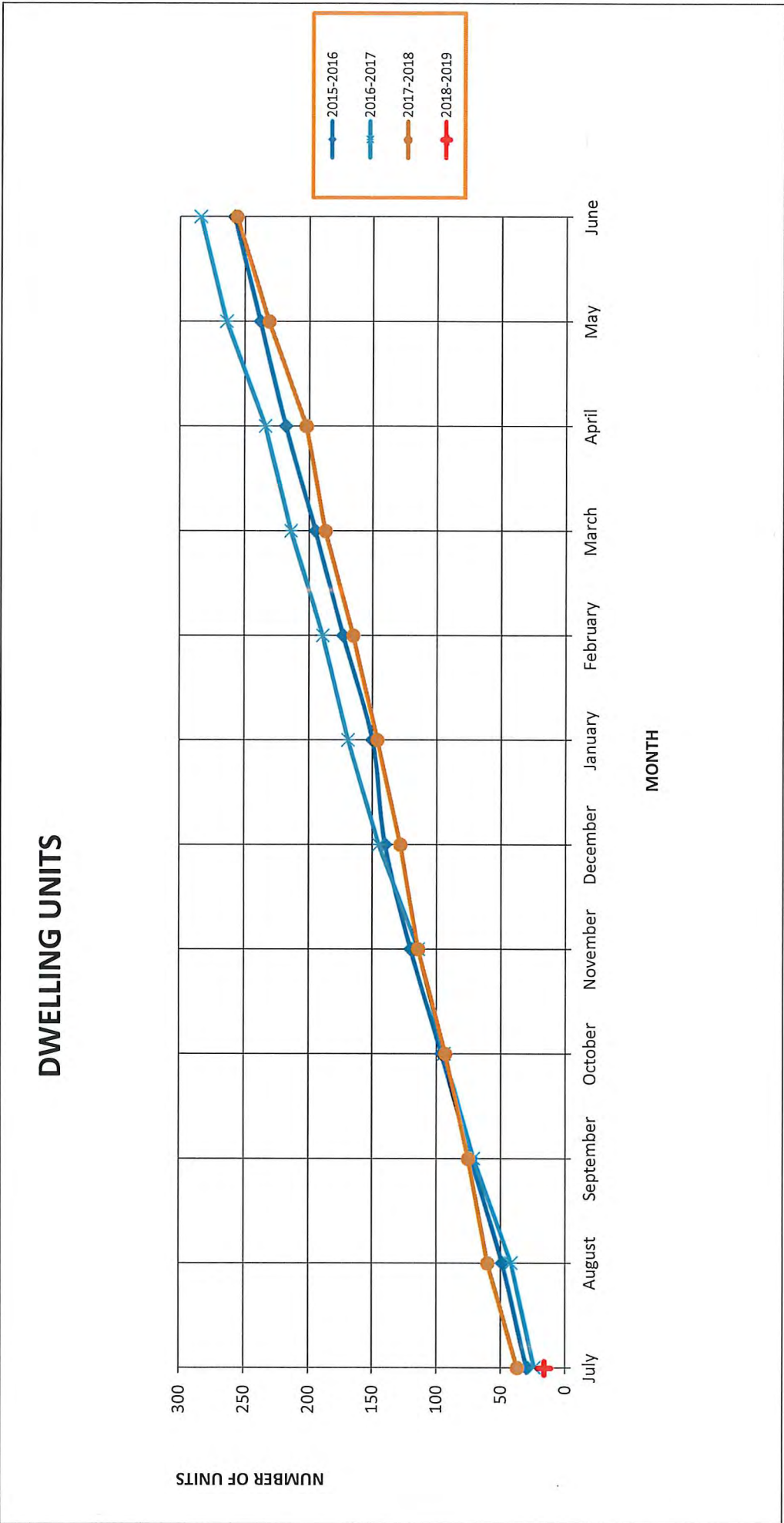
It is brought to Council's attention that these figures include building licence #162591 for a Lifestyle Village, Clubhouse, Swimming Pool, Gym, Kitchen/Café and Sanitary Facilities; estimated value: \$ 2,933,240.00.
2. The two (2) attached graphs compare the current City activity with the past three (3) fiscal years. One compares the value of activity, while the other compares the number of dwelling units.
3. A breakdown of building activity into various categories is provided in the Building Construction Statistics form.
4. Attached are the details of the permits issued for July, the first month of activity in the City of Albany for the financial year 2018/2019.



Zoe Sewell
Information Officer – Development Services

| 2018-2019 | SINGLE DWELLING | | GROUP DWELLING | | DOMESTIC/ OUTBUILDINGS | | ADDITIONS/ DWELLINGS | | HOTEL/ MOTEL | | NEW COMMERCIAL | | ADDITIONS/ COMMERCIAL | | OTHER | | TOTAL \$ VALUE |
|-----------|-----------------|-----------|----------------|----------|------------------------|----------|----------------------|----------|--------------|----------|----------------|-----------|-----------------------|-----------|-------|----------|----------------|
| | No | \$ Value | No | \$ Value | No | \$ Value | No | \$ Value | No | \$ Value | No | \$ Value | No | \$ Value | No | \$ Value | |
| | 15 | 4,914,962 | 1 | 70,000 | 16 | 378,091 | 15 | 337,400 | 0 | 0 | 2 | 2,985,240 | 11 | 1,081,784 | 13 | 287,568 | 10,055,045 |
| AUGUST | | | | | | | | | | | | | | | | | |
| SEPTEMBER | | | | | | | | | | | | | | | | | |
| OCTOBER | | | | | | | | | | | | | | | | | |
| NOVEMBER | | | | | | | | | | | | | | | | | |
| DECEMBER | | | | | | | | | | | | | | | | | |
| JANUARY | | | | | | | | | | | | | | | | | |
| FEBRUARY | | | | | | | | | | | | | | | | | |
| MARCH | | | | | | | | | | | | | | | | | |
| APRIL | | | | | | | | | | | | | | | | | |
| MAY | | | | | | | | | | | | | | | | | |
| JUNE | | | | | | | | | | | | | | | | | |
| DATE | 15 | 4,914,962 | 1 | 70,000 | 16 | 378,091 | 15 | 337,400 | 0 | 0 | 2 | 2,985,240 | 11 | 1,081,784 | 13 | 287,568 | 10,055,045 |





REPORT ITEM DIS 119 REFERS

| Application Number | Builder | Description of Application | Street # | Property Description | Street Address | Suburb |
|--------------------|--|---|----------|----------------------|------------------------|-------------------------------|
| 162565 | BUILDING APPROVAL | BUILDING APPROVAL CERTIFICATE - | 37 | Lot 195 | LOWER KING ROAD | COLLINGWOOD |
| 162566 | CERTIFICATE MCB CONSTRUCTION PTY LTD | SHED EXTENSION - CERTIFIED FLAG POLES X2 - UNCERTIFIED | 1-5 | Lot 500 | PRIOR STREET | HEIGHTS CENTENNIAL PARK |
| 162547 | OWNER BUILDER | CHANGE OF CLASSIFICATION - CLASS 10A SHED TO CLASS 1A | 92 | Lot 101, 100 | EAST BANK ROAD | KALGAN |
| 162562 | BUILDING APPROVAL | BUILDING APPROVAL CERTIFICATE - | 9 | Lot 700 | SUFFOLK STREET | MOUNT CLARENCE ALBANY |
| 162564 | CERTIFICATE COLAB CONSTRUCTION PTY LTD | PATIO & RETAINING WALL - CER REFURBISHMENT OF EXISTING | 117-121 | RES 33641 | SERPENTINE ROAD | ALBANY |
| 162568 | OWNER BUILDER | OFFICES - CERTIFIED DISABLED ABLUTION BLOCK - UNCERTIFIED | 37668 | Lot 6840 | SOUTH COAST HIGHWAY | WELLSTEAD |
| 162570 | N ROPLH | DEMOLITION & RECONSTRUCTION OF SHED BOUNDARY WALL | 27 | Lot 172 | LEONORA STREET | YAKAMIA |
| 162571 | BUILDING APPROVAL | BUILDING APPROVAL CERTIFICATE - | 35615 | Lot 4861, | ALBANY HIGHWAY | DROME |
| 162572 | CERTIFICATE MATSON FABRICATIONS | SEA CONTAINER - CERTIFIED PATIO - UNCERTIFIED | 1B | Lot 1 | HEWETT RISE | SPENCER PARK |
| 162190 | SCHLAGER BUILDING SERVICES PTY LTD | AMENDMENT TO BP # 161510 - ADDITIONAL BALCONYS & REVISED | 68 | Lot 56 | HARE STREET | MIDDLETON BEACH KALGAN |
| 162552 | LA ROSA CONSTRUCTIONS WA PTY LTD | CHALET - UNCERTIFIED | 90 | Lot 7 | EAST BANK ROAD | KALGAN |
| 162573 | GREAT SOUTHERN BOUNDARIES | RETAINING WALL - UNCERTIFIED | 23 | Lot 12 | KITSON STREET | GLEDHOW |
| 162576 | AD CONTRACTORS PTY LTD | DEMOLITION - SHED | 7 | Lot 7147 | KELLY STREET | ORANA |
| 162578 | A BERGSMA | PARTIAL CHANGE OF CLASSIFICATION | 87-89 | Lot 36 | ABERDEEN STREET | ALBANY |
| 162579 | CERTIFICATE OF DESIGN COMPLIANCE | CERTIFICATE OF DESIGN COMPLIANCE - PARTIAL CHANGE OF CLASSIFICATION | 87-89 | Lot 36 | ABERDEEN STREET | ALBANY |
| 162580 | A.B. ROOFING | REROOF OF EXISTING DWELLING - UNCERTIFIED | 114 | Lot 35 | MORGAN ROAD | MCKAIL |
| 162575 | KOSTERS STEEL CONSTRUCTION PTY | NEW STORAGE SHED & ADDITIONS TO EXISTING SHED - CERTIFIED | 5-7 | Lot 202 | LOCKE STREET | ORANA |
| 162584 | BUILDING APPROVAL CERTIFICATE | BUILDING APPROVAL CERTIFICATE - UNAUTHORISED ROOF REPLACEMENT | 25-27 | Lot 200 | SHORTS PLACE | MIRA MAR |
| 162586 | OWNER BUILDER | SHED - UNCERTIFIED | 6 | Lot 51 | SHEPHERD STREET | LOWER KING |
| 162588 | RYDE BUILDING COMPANY PTY LTD | AMENDMENT TO ORIGINAL BP#162397 | LOT 821 | Lot 821 | NEVILLE RISE | WILLYUNG |
| 162581 | RYDE BUILDING COMPANY PTY LTD | NEW DWELLING & WATER TANKS X 4 - UNCERTIFIED | 47986 | Lot 401 3 | SOUTH COAST HIGHWAY | MARBELUP |
| 162583 | OWNER BUILDER | WATER TANK - UNCERTIFIED | 2 | Lot 21 | KOONWARRA CLOSE | LOWER KING |
| 162585 | OWNER BUILDER | SHED & RETAINING WALL - UNCERTIFIED | 17 | Lot 116 | BORONIA AVENUE | COLLINGWOOD HEIGHTS |
| 162589 | GREGORY LEEDER | AMENDMENT TO ORIGINAL BUILDING PERMIT #162572 - CHANGE TO WI | 4 | Lot 228 | HENLEY GROVE | MIRA MAR |
| 162590 | J GOMM | ALTERATIONS TO EXISTING DWELLING - UNCERTIFIED | 86 | Lot 29 | WYLIE CRESCENT | MIDDLETON BEACH |
| 162535 | GREGORY LEEDER | SINGLE STOREY DWELLING - UNCERTIFIED | 15 | Lot 265 | BANDICOOT DRIVE | LANGE |
| 162594 | CITY OF ALBANY | HOCKEY BALL STOP - CERTIFIED | 69-73 | Lot 736 | BARKER ROAD | CENTENNIAL PARK |
| 162596 | REALFORCE PTY LTD | GARAGE AND PATIO - UNCERTIFIED | 34 | Lot 120 | MIRAMAR ROAD | MIRA MAR |
| 162598 | WARREN BENNET HOMES PTY LTD | DEMOLITION - DWELLING X2 | LOT 107 | Lot 107 | FRANCIS STREET | LOWER KING |
| 162600 | OWNER BUILDER | SHED EXTENSION - UNCERTIFIED | 2 | Lot 127 | RANDELL CRESCENT | WARRENUP |
| 162546 | OWNER BUILDER | SHED - UNCERTIFIED | 5 | Lot 15 | MINOR ROAD | ORANA |
| 162560 | RYDE BUILDING COMPANY PTY LTD | NEW DWELLING & RETAINING WALLS - UNCERTIFIED | 5 | Lot 653 | HOUGHTON BOULEVARD | BAYONET HEAD |
| 162591 | HACER PTY LTD trading as SMITH CONSTRUCT | LIFESTYLE VILLAGE CLUBHOUSE SWIMMING POOL GYM KITCHEN/CAFÉ | 20 | Lot 501 | ALISON PARADE | BAYONET HEAD |

REPORT ITEM DIS 119 REFERS

| Application Number | Builder | Description of Application | Street # | Property Description | Street Address | Suburb |
|--------------------|--------------------------------|---|----------|----------------------|---------------------------|-----------------|
| 162599 | WA COUNTRY BUILDERS PTY LTD | NEW DWELLING - CERTIFIED | 5 | Lot 309 | DUSTAN WAY | MCKAIL |
| 162601 | GREGORY LEEDER | NEW DWELLING - UNCERTIFIED | 19 | Lot 804 | HAYWARD CREST | YAKAMIA |
| 162569 | TURPS STEEL FABRICATIONS | SHED - UNCERTIFIED | 7 | Lot 159 | BENALLA DRIVE | BAYONET HEAD |
| 162605 | ALBANY SOLAR/HOWITT ELECTRICAL | INSTALLATION OF SOLAR PANELS - CERTIFIED | 382 | Lot 1 | CHESTER PASS ROAD | WALMSLEY |
| 162606 | ALBANY SOLAR/HOWITT ELECTRICAL | INSTALLATION OF SOLAR PANLS - CERTIFIED | 23 | Lot 12 | KITSON STREET | GLEDHOW |
| 162587 | OWNER BUILDER | ADDITIONS AND ALTERATION TO EXISTING DWELLING - UNCERTIFIED | 166 | Lot 10 | SOUTH COAST HIGHWAY | MCKAIL |
| 162593 | PLUNKETT HOMES (1903) PTY LTD | DWELLING AND RAINWATER TANK - UNCERTIFIED | LOT 2 | Lot 2 | HUNTON ROAD | KALGAN |
| 162597 | RYDE BUILDING COMPANY PTY LTD | NEW DWELLING - UNCERTIFIED | 815 | Lot 301 | FRENCHMAN BAY ROAD | BIG GROVE |
| 162602 | OWNER BUILDER | SHED - UNCERTIFIED | 8 | Lot 96 | KARROO VISTA | BAYONET HEAD |
| 162607 | C BRIDGER | CHANGE OF CLASSIFICATION - CLASS 10 GARAGE TO CLASS 1A | 86 | Lot 156 | MINOR ROAD | ORANA |
| 162608 | OWNER BUILDER | SHED & PATIO - UNCERTIFIED | 12 | Lot 645 | MCCARDELL | BAYONET HEAD |
| 162592 | KDS BUILDING SERVICES | ALTERATIONS AND ADDITIONS - CERTIFIED | 97-99 | Lot 27 | BURGEOYNE ROAD | PORT ALBANY |
| 162610 | WISHART HOMES PTY LTD | ALTERATIONS TO EXISTING CLASS 6 BUILDING - COMMERCIAL KITCHEN | 220 | Lot 31 | YORK STREET | ALBANY |
| 162611 | J TOWTON | MACHINERY FARM SHED - UNCERTIFIED | 154 | Lot 2 | GREATREX ROAD | KING RIVER |
| 162612 | M RYSTENBERG | ALTERATIONS AND ADDITIONS (SUNROOM) - UNCERTIFIED | 64 | Lot 28 | COLLINGWOOD ROAD | MIRA MAR |
| 162613 | WA COUNTRY BUILDERS PTY LTD | NEW DWELLING - UNCERTIFIED | 13 | Lot 223 | ELARAY WAY | LANGE |
| 162615 | R CHARLES | ALTERATIONS AND ADDITIONS NEW MEDICAL ACCESS DECK & VERANDA | 12-14 | Lot 3 | YOUNG STREET | CENTENNIAL PARK |
| 162616 | OWNER BUILDER | SHED - UNCERTIFIED | 8 | Lot 719 | GALLE STREET | YAKAMIA |
| 162577 | D HOLLOWAY | NEW DWELLING SHED & RETAINING WALLS - UNCERTIFIED | 6 | Lot 106 | HARBOUR | LITTLE GROVE |
| 162617 | KOSTER'S OUTDOOR PTY LTD | SHED - UNCERTIFIED | 226 | Lot 704 | ESPLANADE GREENWOOD DRIVE | WILLYUNG |
| 162618 | OWNER BUILDER | SHED AND WATER TANK - CERTIFIED | 92 | Lot 1 | HUNTON ROAD | KALGAN |
| 162621 | OCCUPANCY PERMIT | OCCUPANCY PERMIT - CERTIFIED | 19 | Lot 202 | SYDNEY STREET | YAKAMIA |
| 162619 | WREN (WA) PTY LTD | SHED - UNCERTIFIED | 5 | Lot 127 | MEARS ROAD | YAKAMIA |
| 162624 | OCCUPANCY PERMIT | OCCUPANCY PERMIT - LIBRARY & VISITOR CENTRE - CERTIFIED | 229-237 | Lot 123 | YORK STREET | ALBANY |
| 162495 | D HOLLOWAY | SHED - UNCERTIFIED | 221 | Lot 2753 | EDEN ROAD | YOUNGS SIDING |
| 162603 | AIKEN PTY LTD | NEW 3 STOREY DWELLING TO LOCKUP STAGE ONLY - CERTIFIED | 54 | Lot 235 | WARRENUP PLACE | WARRENUP |
| 162604 | RYDE BUILDING COMPANY PTY LTD | NEW DWELLING & WATERTANK X2 - UNCERTIFIED | 44 | Lot 401 | NAMBUCCA RISE | LOWER KING |
| 162614 | D LEEFLANG | SHED - UNCERTIFIED | 57 | Lot 18 | CAMPBELL ROAD | SPENCER PARK |
| 162623 | DUNKELD | SHED - UNCERTIFIED | 44 | Lot 55 | MEADOWLAKE VISTA | LOWER KING |
| 162629 | OWNER BUILDER | SHED AND SEA CONTAINER - UNCERTIFIED | LOT 3725 | Lot 3725 | THOMPSON ROAD | LOWLANDS |
| 162630 | PULS PATIOS | AMENDMENT TO BP#162555 PATIO - UNCERTIFIED | 51 | Lot 93 | ANGOVE ROAD | SPENCER PARK |
| 162633 | OCCUPANCY PERMIT | OCCUPANCY PERMIT - TENANCY 7 - SMOKE MART - CERTIFIED | 42-88 | Lot 105, 104 | ALBANY HIGHWAY | CENTENNIAL PARK |
| 162638 | RYDE BUILDING COMPANY PTY LTD | SHED - UNCERTIFIED | 81 | RES 36721 Lot 500 | WHALING STATION ROAD | TORNDIRUP |
| 162574 | OWNER BUILDER | ALTERATIONS & ADDITIONS TO EXISTING DWELLING - UNCERTIFIED | 14 | Lot 11 66 | VIEW STREET | ALBANY |
| 162625 | WAUTERS ENTERPRISES PTY LTD | NEW OFFICE FITOUT FOR PALMERSTON ASSOCIATION ALBANY | 63-67 | Lot 21 | SERPENTINE ROAD | ALBANY |
| 162628 | EARLYBIRD LANDSCAPING | REMEDIATION WORK TO EXISTING ROCK WALL NEW STEPS | 4 | Lot 40 | BURT STREET | MOUNT CLARENCE |

REPORT ITEM DIS 119 REFERS

| Application Number | Builder | Description of Application | Street # | Property Description | Street Address | Suburb |
|--------------------|-------------------------------------|---|----------|----------------------|-----------------|-----------------|
| 162631 | J VERMEULEN | WORKSHOP (HONEY PROCESSING) AND CARPORT - CERTIFIED | 13 | Lot 39 | REDGUM TRAIL | MARBELUP |
| 162635 | COLAB CONSTRUCTION PTY LTD | EXTENSION TO FIRE EMERGENCY SHED - CLASS 7B/9B - CERTIFIED | 1520 | RES 6869 | MILLBROOK ROAD | KING RIVER |
| 162626 | OWNER BUILDER | SHED - UNCERTIFIED | 3 | Lot 672 | JUNIPER COURT | YAKAMIA |
| 162627 | B HOOK | NEW DECK - UNCERTIFIED | 4 | Lot 40 | BURT STREET | MOUNT CLARENCE |
| 162636 | OWNER BUILDER | 2 X RAINWATER TANKS - UNCERTIFIED | 28 | Lot 107 | HEREFORD WAY | MILPARA |
| 162637 | SCHLAGER GROUP PTY LTD | OFFICE ADMINISTRATION CENTRE TO PARKLANDS SCHOOL- CERTIFIED | 32-36 | Lot 6702 | DRUMMOND STREET | LOCKYER |
| 162639 | WA BUILDING AND MAINTENANCE PTY LTD | DEMOLITION - DOMESTIC SHED AND CHICKEN SHED | 9 | Lot 113 | PARMELIA WAY | MCKAIL |
| 162640 | BUILDING APPROVAL | BUILDING APPROVAL CERTIFICATE - SHEDS (X4) - CERTIFIED | 161 | Lot 213 | HENTY ROAD | KALGAN |
| 162632 | RYDE BUILDING COMPANY PTY LTD | NEW DWELLING - UNCERTIFIED | 59 | Lot 551 | AJANA DRIVE | MARBELUP |
| 162634 | SCHLAGER GROUP PTY LTD | SINGLE STORY DWELLING SPA AND SHED - CERTIFIED | 28 | Lot 107 | HEREFORD WAY | MILPARA |
| 162641 | OWNER BUILDER | SHED - UNCERTIFIED | 68 | Lot 41 | HILLMAN STREET | SPENCER PARK |
| 162643 | PLUNKETT HOMES (1903) PTY LTD | SINGLE STOREY DWELLING & RETAINING WALLS - UNCERTIFIED | 9C | Lot 4 | PIONEER ROAD | CENTENNIAL PARK |
| 162645 | WA COUNTRY BUILDERS PTY LTD | AMENDMENT TO BP# 162464 CHANGE TO FFL AND INSTALLATION | LOT 709 | Lot 709 | VOKES COURT | WILLYUNG |
| 162649 | A MCKENNA | SHED - UNCERTIFIED | 15 | Lot 839 | NOTLEY STREET | YAKAMIA |
| 162646 | OWNER BUILDER | CARPORT - UNCERTIFIED | 1 | Lot 23 | FLEET STREET | GLEDHOW |