



AGENDA

INFRASTRUCTURE, COMMUNITY AND RECREATION COMMITTEE

9 SEPTEMBER 2019

MEMBERSHIP: Councillors J Diffey, V Etheridge, D Grant, D Gumley, A Jones, S Lawrence, G Mohr, K Parker, J Ryan and B Shields.

The meeting is scheduled to commence at .

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**DUBBO REGIONAL
COUNCIL**

Report of the Infrastructure, Community and Recreation Committee - meeting 12 August 2019

AUTHOR: Governance Team Leader
REPORT DATE: 28 August 2019

The Committee had before it the report of the Infrastructure, Community and Recreation Committee meeting held 12 August 2019.

RECOMMENDATION

That the report of the Infrastructure, Community and Recreation Committee meeting held on 12 August 2019, be adopted.



REPORT
INFRASTRUCTURE, COMMUNITY AND
RECREATION COMMITTEE
12 AUGUST 2019

PRESENT: Councillors V Etheridge, D Grant, D Gumley, A Jones, S Lawrence, G Mohr, K Parker, J Ryan and B Shields.

ALSO IN ATTENDANCE:

The Chief Executive Officer, the Executive Manager Governance and Internal Control, the Internal Ombudsman, the Community Support Officer, the Manager Governance Operations, the Communications Coordinator, the Director Organisational Performance, the Director Culture and Economy, the Manager Economic Development and Marketing, the Destination Marketing Officer, the Manager Regional Experiences, the Director Infrastructure, the Manager Water Supply and Sewerage, the Director Development and Environment, the Manager Growth Planning, the Manager Building and Development Services, the Senior Planner and the Director Liveability.

Councillor S Lawrence assumed chairmanship of the meeting.

The proceedings of the meeting commenced at 6.01pm.

ICRC19/42 REPORT OF THE INFRASTRUCTURE COMMUNITY AND RECREATION COMMITTEE - MEETING 8 JULY 2019 (ID19/1072)

The Committee had before it the report of the Infrastructure, Community and Recreation Committee meeting held 8 July 2019.

Moved by Councillor K Parker and seconded by Councillor G Mohr

MOTION

That the report of the Infrastructure, Community and Recreation Committee meeting held on 8 July 2019, be noted.

CARRIED

**ICRC19/43 REVIEW OF THE DUBBO REGIONAL COUNCIL SIGNIFICANT TREE REGISTER
2019 (ID19/1017)**

The Committee had before it the report dated 22 July 2019 from the Horticulture and Landcare Asset Coordinator regarding Review of the Dubbo Regional Council Significant Tree Register 2019.

Moved by Councillor V Etheridge and seconded by Councillor J Ryan

MOTION

- 1. That the report from the Horticulture and Landcare Coordinator dated 22 July 2019 be noted.**
- 2. That the reviewed Tree Preservation Order and the Significant Tree Register for 2019 dated 23 July 2019 be adopted.**

CARRIED

ICRC19/44 LEAVE OF ABSENCE

A request for leave of absence was received from Councillor J Diffey who was absent from the meeting due to the personal reasons.

Moved by Councillor A Jones and seconded by Councillor V Etheridge

MOTION

That such request for leave of absence be accepted and Councillor J Diffey be granted leave of absence from this meeting.

CARRIED

The meeting closed at 6.03pm.

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CHAIRMAN



DUBBO REGIONAL
COUNCIL

REPORT: New/Updated Macquarie River Flood Study

AUTHOR: Manager Infrastructure Strategy and
Design
REPORT DATE: 23 August 2019
TRIM REFERENCE: ID19/1190

EXECUTIVE SUMMARY

In 2012, Cardno completed an updated Macquarie River Flood Study for Council and adjacent areas. The study area extends from Angle Road downstream to Whylandra Creek, and several kilometres east along the Talbragar River. The Flood Study was undertaken to define the nature and extent of flooding and flood hazard for a range of design rainfall events. This Flood Study did not include calibration against the 2010 flood.

Councillor workshops were held in April 2014 and November 2014 to gain councillor support for adoption of the Flood Study, which would then allow the preparation of a new Floodplain Risk Management Plan to progress. Concerns were raised by councillors at both workshops, with a request for additional modelling to occur and a request that Cardno's report be peer-reviewed. A key component of the objection was that from this Study, 287 allotments in North Dubbo would be classified as flood-affected during a 1% Annual Exceedance Probability Flood (AEP, formerly known as the 1-in-100 year flood), or have a Flood Planning Level constraint placed against the property.

From November 2014 to October 2016, Cardno recalibrated their model to include observed flood levels from the December 2010 flood, and ran a number of different assessments. The latest study also uses data from a number of previous studies, the latest one and two-dimensional hydrodynamic modelling techniques (which was not available in 2012) and comprehensive aerial laser survey data.

The model has also been peer reviewed at three separate stages by Mark Babister, one of Australia's most renowned hydrologists. Each of these peer reviews led to further assessment, with Mr Babister advising Cardno in October 2016 that the 1% AEP flow estimate is robust and suitable for use as a basis for Council's flood planning.

From October 2016 to August 2018, slight adjustments were made to the model grid size and time steps, and all historical and design floods were re-run. The changes to the grid size created greater accuracy across the entire floodplain, compared to previous models which used different sized grids.

The Addendum report was subsequently provided to Council in early 2019. Compared to the 2012 Study, there were increases in peak inflows in the 5% AEP, 2% AEP and 1% AEP Macquarie River floods. The Talbragar River inflows remain unchanged from the 2012 Study.

In addition, whilst flood levels may have risen in almost all locations north of Mitchell Street, the total flooded extent compared to 2012 has decreased. This can be attributed to greater model accuracy.

The 2019 Study has indicated that 165 allotments will be either flood affected, or require an FPL constraint (a net reduction of 122 allotments). This consists of 162 allotments in urban North Dubbo being removed from the list, but 40 allotments in areas of north-western Dubbo (ie Brocklehurst, Burraway Road area) being added. All other areas within the Study area remained consistent.

It is now necessary for Council to revise its Floodplain Risk Management Study, along with the flood planning levels included in Local Environmental Plan/s and the Development Control Plan. It is also proposed that Council extend its comprehensive Floodplain Risk Management Plan in accordance with the NSW Government's Floodplain Development Manual (2005), as identified in the Dubbo 2040 Delivery Program and Operational Plan, Action 5.6.3.1.

It is recommended that the digital maps be placed on public exhibition (on Council's website) for a period of six (6) weeks. It is also recommended that during this exhibition period workshops be held with relevant government agencies and stakeholders to gather feedback. A report will be presented to the December 2019 Council meeting with outcomes of this public consultation period and recommendations for the next steps in the process.

It is also recommended that in the interim the new flood modelling data be adopted for providing up-to-date information on zoning decisions in respect of any amendments to the Dubbo Local Environment Plan 2011, and in the assessment of development applications for development within flood-affected areas.

FINANCIAL IMPLICATIONS

There will be no financial implications arising from the recommendations of this report.

However, should the project proceed to preparation of the Floodplain Risk Management Study and Floodplain Risk Management Plan, total funding of up to \$200,000 will need to be allocated to the future Stormwater Budgets (2020/2021 and 2021/2022).

Grant applications will be submitted to NSW Office of Environment and Heritage Floodplain Management Programme to attempt to offset some of these costs.

POLICY IMPLICATIONS

There are no policy implications arising from this report.

However, when the flood study and model data are adopted it will essentially become a flood policy to be applied alongside existing policies and plans.

Further, the new/updated data will ultimately be included in a comprehensive Floodplain Risk Management Plan and incorporated into relevant development control plans. Both of these documents will require further consideration by Council once drafted.

RECOMMENDATION

- 1. That the report of the Manager Infrastructure Strategy and Design dated 23 August 2019 be noted.**
- 2. That the digital maps generated by the 2019 Macquarie River Flood Study be placed on public exhibition on Council's website for a period of six (6) weeks, commencing 23 September 2019.**
- 3. That during the period of public exhibition two workshops be held with significant stakeholders and relevant government agencies to review the maps and gather feedback.**
- 4. That following the period of public exhibition, a report be presented to the December 2019 meeting of Council, detailing the outcomes of the public exhibition period and proposing a programme for the implementation of the Floodplain Risk Management Plan.**
- 5. That in the interim, the model data be adopted for the purposes of zoning decisions in respect of any amendments to the Dubbo LEP 2011 and assessment of development applications in Flood Prone or Flood Affected areas.**

Stephen Howlett

Manager Infrastructure Strategy and Design

BACKGROUND

Council has a Floodplain Management Plan, which was adopted in 2000 for the Urban Areas of the Local Government Area. This Plan and Council's previous DCP (G2.2 Flood Prone Lands - Urban Areas) were based on the Dubbo City Floodplain Management Study (PPK 1992 as amended), the Talbragar River Flood Study (PPK 1995), the Hydraulic Analysis for the CBD (Terra Sciences 1998) and the now outdated NSW Floodplain Development Manual (1996).

The updated NSW Floodplain Development Manual (2005) is the guiding document to the various processes required as part of the Floodplain Risk Management Process, a six-step process defined by the Manual. Essentially, it requires the undertaking of a flood study, followed by a Floodplain Risk Management Study, leading to a Floodplain Risk Management Plan, approved by a Floodplain Risk Management Committee (see **Appendix 1**).

In March 2012, a final report titled '*Macquarie River, Dubbo, Compilation of Flood Studies*' was submitted to Council. Digital files of various results were also submitted from May to June 2012. The Study focused on the Macquarie River and adjacent areas, extending from Angle Road downstream to Whylandra Creek, and several kilometres east along the Talbragar River. The Flood Study was undertaken to define the nature and extent of flooding and flood hazard for a range of design flood events. However, it must be noted that the report is solely focused on flooding caused by Macquarie and Talbragar rivers. Overland flooding caused by intense rainfall, which is another flooding concern for Dubbo given the topography of the land, is not included in the scope of this Study.

The 1% Annual Exceedance Probability (AEP) event is of particular interest to regulators, as it is the 'default' responsibility event and of particular significance to control of flood plain development. From this, the Flood Planning Level (FPL) is traditionally derived, which is 0.5 m higher than the higher of the two 1% AEP events (either Macquarie or Talbragar) at any particular point on the floodplain.

It should be noted that the industry has gravitated away from the terminology Average Recurrence Interval (ARI), as it is problematic for frequent events and leads to confusion with the public for rare events. AEP is preferred as it represents a probability of a certain flood occurring in any particular year.

The 2012 Study identified 287 allotments of residential land between Cobra Street and Purvis Lane that were previously considered 'flood free allotments' would now be either flood affected, or have a Flood Planning Level (FPL) constraint placed on the S149 Certificate.

Following a councillor workshop held on 10 April 2014, four (4) additional actions were requested prior to the report being submitted to Council.

1. *The Director Technical Services be requested to proceed to mark levels as identified in the 2012 Flood Study at various locations in North Dubbo.*
2. *Councillor J Walkom and Director Technical Services to meet and discuss the contents of the Flood Study, including an onsite visit to North Dubbo to inspect levels as above.*

3. *Following such discussions, a plan showing where Council has marked projected flood levels in North Dubbo, be provided to Councillors for their information.*
4. *The Director Technical Services be requested to advise Councillors details as to the additional houses that will be affected in North Dubbo by the revised Flood Study data.*

An additional councillor workshop was held on 6 November 2014. Consensus was not achieved at this meeting, with requests for additional modelling to be undertaken. Additional modelling which has since been undertaken includes:

- Recalibration of the floodplain model against observed 2010 flood levels which included the modification of the floodplain model on the lower Talbragar River floodplain;
- A review of the rating tables, flow gaugings and the flood frequency analysis at Station 421001, Macquarie River at Dubbo (Dubbo Pump Station gauge);
- Three separate peer reviews at various stages through the period which led to further assessments; and
- An update of the flood frequency analysis which led to the adoption of different design peak flood flows at the Macquarie River gauge.

Gauge No. 421001 is often referred to as the Dubbo Pump Station gauge. It is located approximately 3 km upstream of the LH Ford Bridge at the Weir and is the primary flood warning and flood record station for the Dubbo CBD.

REPORT

The undertaking of the Flood Study has been a technologically advanced process compared to prior studies. The Study itself is made complex by the junction of the Macquarie River and the Talbragar River, immediately downstream of Dubbo and the upstream presence of Burrendong Dam. The combination of natural events in two major catchments and management intervention in dam releases provides a near limitless number of available flooding scenarios.

In this Study, thirteen flood events (shown in **Appendix 6**) have been modelled from significant minor events to extreme events covering both the Macquarie and Talbragar rivers. A feature of the dynamic modelling is the generation of a flood surface contour/level at every point on the floodplain for each event in lieu of an assumed water level surface as in past studies. Predicted flood levels for the full range of floods were provided at 659 floodplain locations. Despite the advanced processes used, it is important to recognise that there are inherent limitations and assumptions and that millimetre accuracy is not achievable. Typically, flood studies such as this aim to achieve accuracies in the order of 0.1 metre.

Two scenarios were modelled for the 5%, 2%, 1%, and 0.5% Annual Exceedance Probability (AEP) floods. The first represents the case where Macquarie River flooding is dominant, while the second represents a Talbragar River-dominant flood. A single scenario was modelled for the 10% AEP flood.

2010 Flood

Cardno undertook an assessment of the rainfall and available gauging records for the 2010 December flood at Dubbo, which had not been included in the 2012 report. Testing of the floodplain model was undertaken for the 2010 flood and led to the modification of the floodplain model on the lower Talbragar River floodplain.

Review of Dubbo Gauge, Flood Frequency Analysis, and Peer Reviewer feedback

From November 2014 to October 2016, Cardno undertook a review of rating tables, flow gaugings, and the flood frequency analysis at Station 421001. Their findings were peer reviewed at three separate stages by Mark Babister, one of Australia’s most renowned hydrologists, with each of these peer reviews leading to further assessment.

In August 2016 the peak flows (in m³/s) reported in the 2012 report were compared to results obtained in 2016. The primary issue of concern was the peak inflow adopted in 2012 for the 0.5% AEP flood was approximately 1,000 m³/s lower than the peak flow obtained from the flood frequency analysis in 2016. With the concurrence of Mr Babister, the peak inflow was adjusted to give a 0.5% AEP flood level at the Dubbo gauge, which should be comparable to the gauge height predicted by the adopted flood frequency analysis.

Mr Babister advised Cardno on 31 October 2016 that his review indicated that the 1% AEP flow estimate is robust and suitable for use as a basis for Council’s flood planning area, and that he supports the pragmatic decision to adjust the 0.5% AEP flow given there are no practical consequences.

Results from the Flood Study

Following the completion of the peer review, adjustments were made to the design inflows of each flood event in the Macquarie River, however no changes were made to Talbragar River inflows. Adopted peak design inflows can be seen in Table 1 below:

AEP		Macquarie River		Talbragar River (2012 and 2019)
%	(1 in X)	2012	2019	
10%	10	820	790	1,819
5%	20	1,360	1,343	2,473
2%	50	2,500	2,557	3,214
1%	100	3,820	4,037	4,011
0.5%	200	5,700	5,300	4,881

Table 1 – Adopted Design Peak Inflows (m³/s)

To give a sense of context, estimated gauge heights at Station 421001 for each design flood are shown in Table 2.

AEP %	Station 421001 Gauge Height (estimated)
10%	8.2
5%	8.8
2%	10.5
1%	11.9
0.5%	13.0

Table 2 – Approximate Gauge Heights at Station 421001 for Design Floods

For comparison, the highest flood gauge levels in recent flood events are as follows:

- August 1990 = 10.03 m (recorded stream flow 2,340 m³/s)
- December 2010 = 9.72 m (recorded stream flow 1,724 m³/s)
- September 2016 = 6.84 m (recorded stream flow 729 m³/s)

From October 2016 to August 2018, additional modelling runs were undertaken to ensure the accuracy of flood modelling across the entire floodplain. Previous modelling had certain sections of the floodplain near the river modelled to a higher degree of accuracy than the remainder of the floodplain, creating some level of discontinuity and uncertainty at the interface of the different sized grids. These assessments culminated in the re-running of all of the historical and design floods based on a uniform 6 m x 6 m grid with adjusted inflows shown in Table 1.

It was concluded from a comparison of available flood marks and predicted flood levels that:

- The predicted February 1955 flood levels were in better agreement with the 1955 flood marks than reported in 2012 except at the Dubbo gauge which was higher than reported in 2012 (+11 cm);
- The predicted August 1990 flood levels were in better agreement with the 1990 flood marks than reported in 2012 except at the Dubbo gauge which was lower than reported in 2012 (-33 cm); and
- The predicted December 2010 flood levels were in slightly better agreement with the 2010 flood marks than estimated in 2015 except at the Dubbo PS gauge which was lower than reported in 2015 (-16 cm).

It was further concluded that the mapped and predicted extent of flooding in December 2010 in the Talbragar River and Macquarie River were in very good agreement.

In the 2019 model, it was found that in comparison to levels reported in 2012:

- There is an overall reduction in the estimated 10%, 5% and 2% AEP flood levels;
- The 1% AEP and 0.5 % flood levels were lowered to a degree in the Talbragar River;
- The 1% AEP design flood levels increased along substantial reaches of the Macquarie River; and
- The 0.5% AEP design flood levels increased completely along the Macquarie River.

These changes can be attributed to the difference in the Macquarie River peak flow adopted in the 2012 and 2019 TUFLOW models and the modification of the floodplain model on the lower Talbragar River floodplain because of the validation of the floodplain model with the December 2010 flood.

Three extreme events were also modelled, described below in Table 3:

Event	Description
Probable Maximum Flood (PMF)	<p>The largest flood that could conceivably occur at, estimated from the Probable Maximum Precipitation (PMP).</p> <p>PMP is the greatest depth of rainfall for a given duration meteorologically possible over a given storm size area at a particular location at a particular time of year.</p> <p>The PMF is generally considered an event with an AEP of between 0.001% and 0.01%.</p> <p>This event could see flood levels 4.0 m higher than the 1% AEP level.</p>
Sunny Day Burrendong Dam Failure	<p>Burrendong Dam is full at the time of a dam wall failure. There is no rainfall associated with this event.</p> <p>This event could see flood levels 4.8 m higher than the 1% AEP level.</p>
Burrendong Dam Failure Occurring with PMF	<p>Burrendong Dam is full and the wall fails in conjunction with the PMF.</p> <p>This event could see flood levels 10.3 m higher than the 1% AEP level.</p>

Table 3 – Explanation of three modelled extreme events

It must be noted that these are extreme events of very low probability, so caution needs to be exercised to not unnecessarily cause alarm. Additionally, it is not physically or economically possible to provide complete protection against these events.

Flood Planning Level Changes

It is essential that Council provides the most up-to-date information available to the community and relies upon it in the assessment of development applications. In general, results from the new study are higher flood levels than those currently adopted by Council, as shown below in Table 4 below:

Location	1% AEP Flood Level (DCP)	1% AEP Flood Level range (Cardno, 2019)		Difference Range (cm)	
		Min	Max	Min	Max
Brisbane/Bourke Street	262.0	262.49	262.50	+ 49	+ 50
River Street	262.0	262.50	262.55	+ 50	+ 55
Macleay Street	262.1	262.74	262.77	+ 64	+ 67
Erskine Street	262.3	262.77	262.84	+ 47	+ 54
Talbragar Street	262.4	263.03	263.10	+ 63	+ 70
Wingewarra Street	262.6	263.10	263.12	+ 50	+ 52
Bultje Street	262.9	263.18	263.23	+ 28	+ 33
Cobra Street	262.9	263.21	263.27	+ 31	+ 37
Mitchell Street	263.1	263.22	263.30	+ 12	+ 20
Tamworth Street	263.3	263.32	263.37	+ 2	+ 7

Table 4 - Comparison between 2000 and 2019 1% AEP levels

It can be seen from Table 4 that between River Street and Macleay Street levels are up to 0.6 m higher than previously modelled depending on location. Within the CBD, the difference ranges from 0.7 m higher at Talbragar Street, decreasing to 0.4 m at Cobra Street and 0.2 m higher at Mitchell Street. South of Mitchell Street the differences are small.

It appears that the major effects are in the area north of the CBD where there are influences from the Talbragar River as well as local catchments such as Troy Gully.

Flood level changes compared to 2012 modelling are shown in Table 5 below (with a graphical representation in Appendices 3 and 4):

Location	2012 - 1% AEP Flood Level		2019 - 1% AEP Flood Level	
	Min	Max	Min	Max
Brisbane/Bourke Street	262.41	262.42	262.49	262.50
River Street	262.42	262.81	262.50	262.55
Macleay Street	262.85	263.15	262.74	262.77
Erskine Street	262.92	263.13	262.77	262.84
Talbragar Street	262.93	263.03	263.03	263.10
Wingewarra Street	263.07	263.07	263.10	263.12
Bultje Street	263.11	263.16	263.18	263.23
Cobra Street	263.17	263.21	263.21	263.27
Mitchell Street	263.19	263.23	263.22	263.30
Tamworth Street	263.29	263.38	263.32	263.37

Table 5- Comparison between 2012 and 2019 1% AEP levels

Whilst flood levels may have risen in almost all locations north of Mitchell Street, the total flooded extent compared to 2012 has decreased. This can be attributed to greater detail and accuracy in the flood modelling as described earlier.

The 2012 modelling identified 287 former 'flood free' properties being either flood affected or having an FPL constraint placed. In comparison, the 2019 Study has reduced this number to 165 (with a graphical representation shown in Appendix 5). There was a reduction of 162 flood affected/flood free allotments in urban North Dubbo, but 40 allotments in areas of north-western Dubbo (ie Brocklehurst, Burraway Road area) were added to the Flood affected area. All other areas within the Study area remained consistent.

Floodplain Risk Management Study and Floodplain Risk Management Plan

Given the changes in the modelling, it will be necessary in the near future for Council to revise its Floodplain Risk Management Study (FPRMS), which was last adopted by Council in 1993, and the flood planning levels included in Local Environmental Plan/s and the Development Control Plan.

It is also proposed that Council, through the Floodplain Risk Management Committee, extend its comprehensive Floodplain Risk Management Plan (FPRMP) in accordance with the NSW Government's Floodplain Development Manual. This work has been identified in Dubbo 2040 Delivery Program and Operational Plan, Action 5.6.3.1.

One use of the updated data will be for assessment of development applications in flood-affected areas. These areas may, or may not already be mapped within a flood-affected area under the existing mapping included within the DLEP 2011. With this new information, Council can more accurately consider flooding impacts on particular sites until changes can be made to the LEP.

Public Exhibition of Data and Maps

It is recommended that the maps generated from Cardno's Flood Study data be placed on Council's website in digital format. This data will then be made publically available for interested residents to view and provide feedback via an online form.

It must be explicitly stated that caution needs to be exercised in the literal interpretation of flood inundation mapping. At a broad scale, the inundation boundary shown is considered satisfactory however, at high levels of resolution there may be inconsistencies with available contour data.

It is also recommended that Council hold two (2) workshops, with relevant stakeholders and government agencies, to review the maps and gather feedback. Relevant stakeholders would include (but not be limited to) Dubbo Chamber of Commerce, Real Estate Institute, Transport for NSW, Water NSW, Department of Planning, Industry and Environment, Emergency Services personnel and rail authorities.

It is proposed that Council place this data on public exhibition from Monday 23 September 2019, for a period of six (6) weeks. Following closure of this period, a report will be prepared for the Council meeting scheduled for December 2019, outlining the feedback received, and the next steps in the FMRMS and FPRMP process.

In the interim, it is recommended that the updated data be adopted for providing up-to-date information on Council's zoning decisions in respect of any amendments to the Dubbo LEP 2011, and in the assessment of development applications for development within the affected areas.

SUMMARY

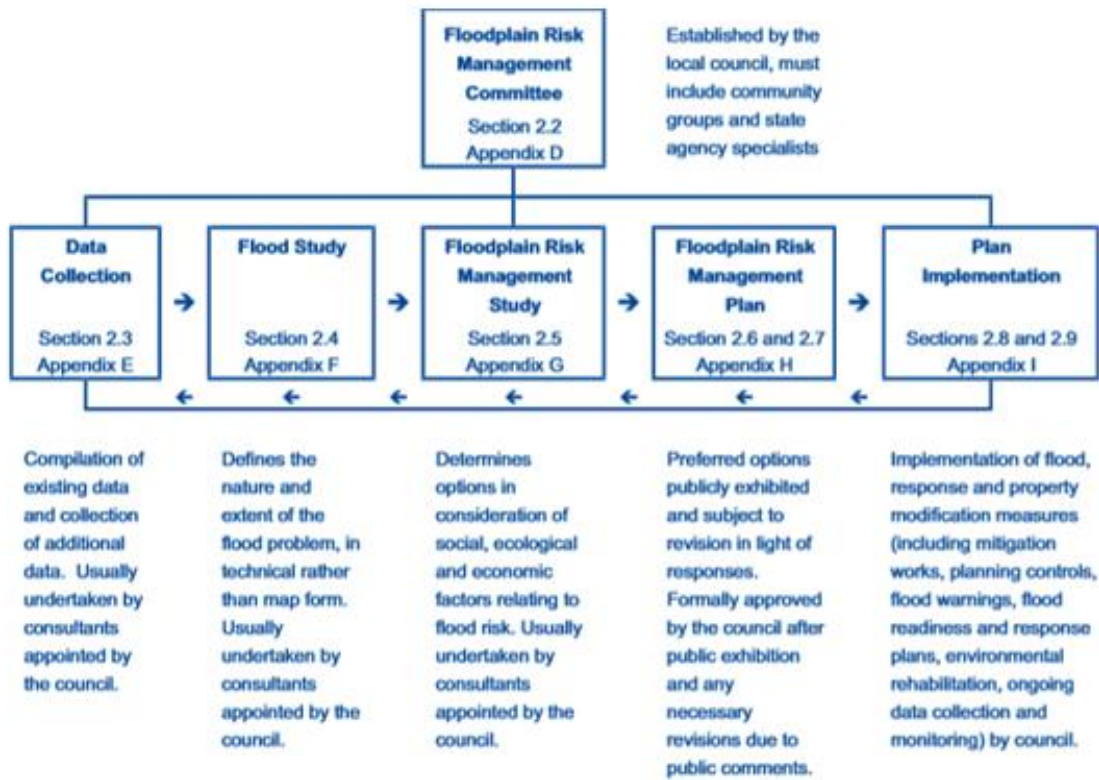
A new flood study for the Macquarie and Talbragar Rivers through Dubbo was completed in 2012, and subsequently revised from 2014 to 2019 following stakeholder concerns. Extensive new mapping and flood levels are now available.

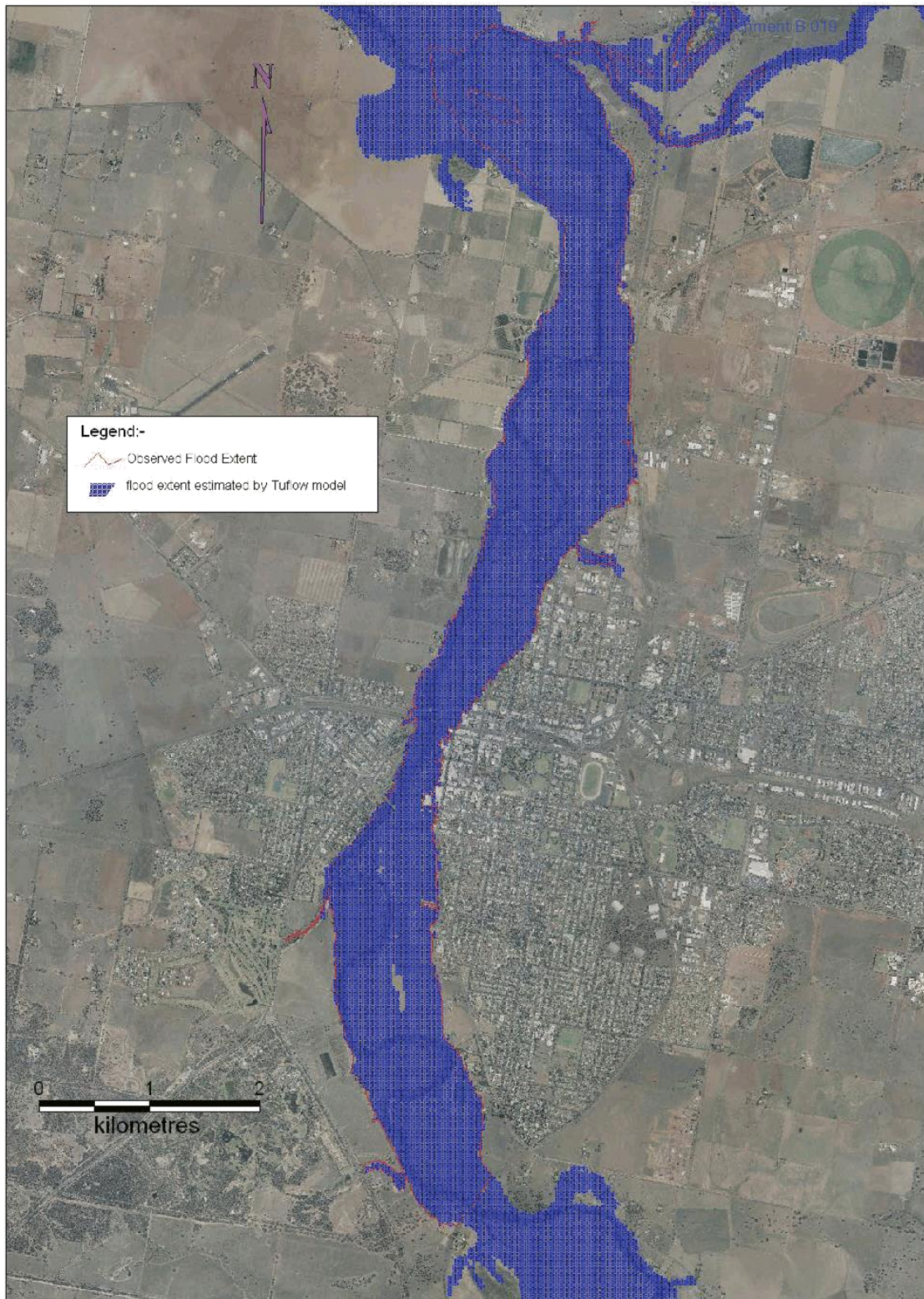
The 2012 model previously presented to Council indicated 287 allotments in North Dubbo would be classified as flood-affected during a 1% Annual Exceedance Probability Flood, or have a Flood Planning Level constraint placed against the property. Following peer-reviewed revision of the model to greater accuracy, the number of allotments has been reduced by over 100.

This report recommends that the data be placed on public exhibition, so that the information can be shared with relevant stakeholders and feedback sought. Following the public exhibition period, a further report will be provided to Council outlining the feedback received and the next steps in the process of preparing a new Floodplain Risk Management Plan in accordance with the NSW Government's Floodplain Development Manual.

Appendices:

- 1 [↓](#) Floodplain Risk Management Process
- 2 [↓](#) Cardno TUFLOW Model – Calibration to December 2010 Flood
- 3 [↓](#) 1% AEP Flood Level Difference (2018-2012)
- 4 [↓](#) Flood Planning Level Comparison – 2012 to 2018
- 5 [↓](#) North Dubbo Flood Planning Level – Comparison of 2012 to 2018
- 6 [↓](#) Events Modelled
- 7 [↓](#) Location of Station 421001

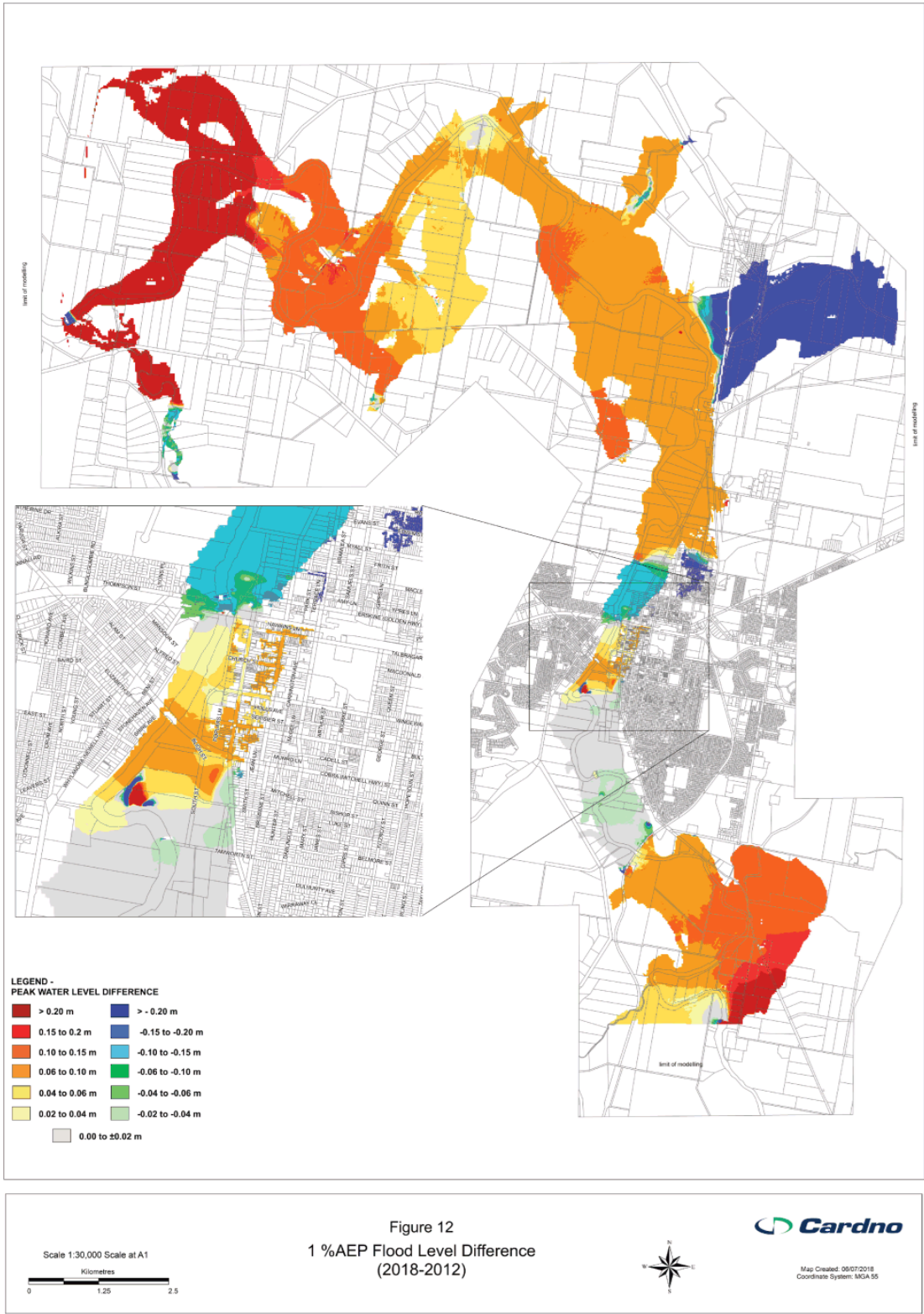


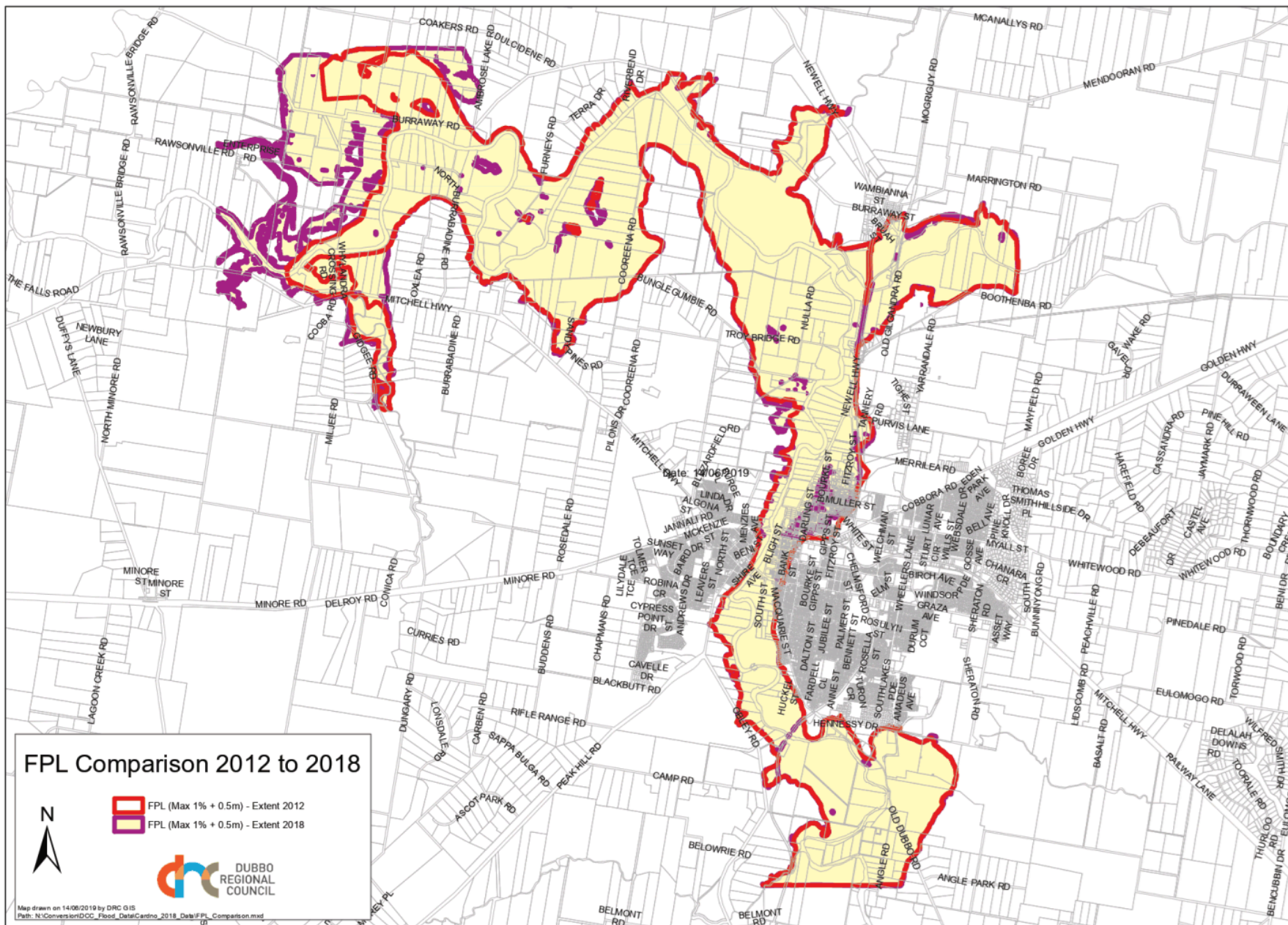


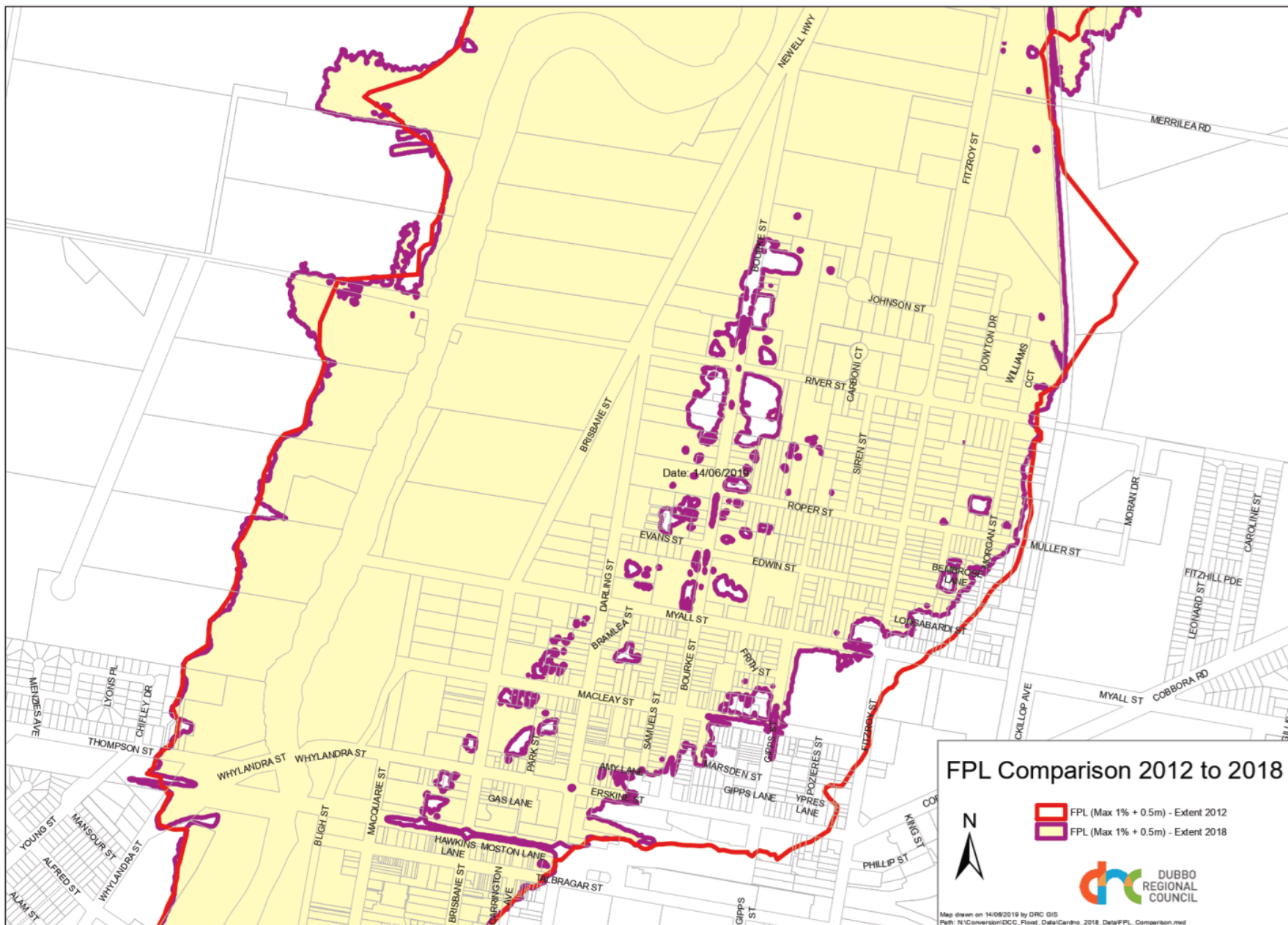
Cardno 4Feb15

Based on Adjusted V8 Inflows

December 2010 Flood Extent







W4669 Macquarie River Compilation of Digital Results

Under Review

In Progress

Completed

Status

26-Oct-18

Status:-

Event	Vector (MapInfo, Shape)				Raster (ASCII + GRD Files)							
	Max Inundation	Flood Extent	FL Contours 0.2 m	Hydraulic Category	Depth	Velocity	Hazard	Velocity x Depth	Point Flood Level	Max Inundation	Flood Extent	
Extreme Floods												
Sunny Day Dam Break												
PMF												
PMF with Dam Break												
Design Floods												
0.5%M2%T												
1%M + 5%T												
2%M10%T												
5%M20%T												
10%M10%T												
2%M0.5%T												
5%M1%T												
10%M2%T												
20%M5%T												
Design Flood Level Envelope												
Max WL 0.5%												
Max WL 1%												
Max WL 2%												
Max WL 5%												
Flood Planning Level												
Max WL 1% + 0.5 m												
Macquari River Gauge Level												
6.5 m												
7 m												
7.5 m												
8 m												
8.5 m												
9 m												
9.5 m												
10 m												
10.5 m												
11 m												
11.5 m												
12 m												
12.5 m												
13 m												
Talbragar River (Theoretical) Gauge Level												
10.5 m												
11 m												
11.5 m												
12 m												
12.5 m												





DUBBO REGIONAL
COUNCIL

REPORT: Dubbo Triathlon Races 2019/2020

AUTHOR: Senior Traffic Engineer
REPORT DATE: 2 September 2019
TRIM REFERENCE: ID19/1216

EXECUTIVE SUMMARY

This report deals with the approval procedures required for bicycle (triathlon) races on public roads. The Dubbo Triathlon Club is seeking approval to conduct the triathlon race season for 2019/2020 with the cycle leg along Bligh Street, Macquarie Street and Old Dubbo Road.

The event starts, and finishes, at Ollie Robbins Oval comprising a Macquarie River swim, cycle ride along local roads and run along the river corridor. The cycle leg is categorised as a Class 2 event on public roads and will require NSW Police Force approval under Section 115 of the Road Transport Act 2013. The Club's racing season runs between September 2019 and April 2020, inclusive of typical Club and inter-club events. On the cycle course competitors are required to comply with the road rules and are not to ride in groups at any stage.

The Club has submitted an Event and Traffic Management Plan, Risk Assessment, Traffic Control Plan and additional supporting documentation as attached.

The matter is referred to the Local Traffic Committee for its consideration. It is recommended that approval be granted to the Dubbo Triathlon Club to conduct its 2019/2020 racing season as proposed in accordance with the Event and Traffic Management Plan as conditioned by Council and the NSW Police Force.

FINANCIAL IMPLICATIONS

There are no financial implications arising from this report.

POLICY IMPLICATIONS

There are no policy implications arising from this report.

RECOMMENDATION TO THE LOCAL TRAFFIC COMMITTEE

1. That the application of the Dubbo Triathlon Club be approved for the 2019/2020 season as conditioned by the NSW Police Service and the following conditions of Dubbo Regional Council.
2. Approval shall be for the use of Bligh Street from Ollie Robbins Oval, south to Macquarie Street, Macquarie Street from Bligh Street to Hennessy Road, Old Dubbo Road from Hennessy Road south to the 4.5, 9 and 20 kilometres turnaround locations and return on the nominated days generally between 9.00 am to 11.00 am and at selected times

for specific events in accordance with the Racing Schedule on 22 September 2019, 27 October 2019, 10 November 2019, 1 December 2019, 19 January 2020, 9 February 2020 (inter-club event), 15 March 2020 and 5 April 2020.

3. Submission of a Traffic Management Plan to Council for approval to be submitted a minimum of three (3) weeks prior to the first event. All traffic control measures contained in the Plan are to be in accordance with Australian Standard AS 1742.3 and the Roads and Maritime Services and NSW Guidelines for Bicycle Road Races and the Guide to Traffic Control at Worksites, prepared by an accredited person.
4. All traffic control, including the placement and removal of barricades and/or regulation of traffic, is to be carried out by traffic controllers appropriately trained in accordance with the requirements of Australian Standard AS 1742.3 and the Roads and Maritime Services accreditation requirements for Traffic Control Planners or Controllers as required.
5. All competitors shall comply with the Australian Road Rules, for the cycle route.
6. All traffic advisory signs shall be placed in accordance with the approved Traffic Control Plan.
7. The NSW Police Force consent and conditions for bicycle races permit under the NSW Roads Transport Act 2013, Section 115.
8. Council's Executive Manager Governance and Internal Control must sight a copy of the Public Liability Insurance Policy for a minimum amount of \$20 million on which Dubbo Regional Council and NSW Police Force is specifically noted to be indemnified against any action resulting from the triathlon races.
9. The applicant is to submit to Council all the appropriate documentation required, accepting the above terms and conditions before a final approval is granted.

LOCAL TRAFFIC COMMITTEE CONSIDERATION

This matter was considered by the Local Traffic Committee at its meeting held on Monday, 2 September 2019. The Committee had unanimous support in the adoption of the recommendation.

RECOMMENDATION

1. That the application of the Dubbo Triathlon Club be approved for the 2019/2020 season as conditioned by the NSW Police Service and the following conditions of Dubbo Regional Council.
2. Approval shall be for the use of Bligh Street from Ollie Robins Oval, south to Macquarie Street, Macquarie Street from Bligh Street to Hennessy Road, Old Dubbo Road from Hennessy Road south to the 4.5, 9 and 20 kilometres turnaround locations and return on the nominated days generally between 9.00 am to 11.00 am and at selected times for specific events in accordance with the Racing Schedule on 22 September 2019, 27 October 2019, 10 November 2019, 1 December 2019, 19 January 2020, 9 February 2020 (inter-club event), 15 March 2020 and 5 April 2020.
3. Submission of a Traffic Management Plan to Council for approval to be submitted a minimum of three (3) weeks prior to the first event. All traffic control measures contained in the Plan are to be in accordance with Australian Standard AS 1742.3 and the Roads and Maritime Services and NSW Guidelines for Bicycle Road Races and the Guide to Traffic Control at Worksites, prepared by an accredited person.
4. All traffic control, including the placement and removal of barricades and/or regulation of traffic, is to be carried out by traffic controllers appropriately trained in accordance with the requirements of Australian Standard AS 1742.3 and the Roads and Maritime Services accreditation requirements for Traffic Control Planners or Controllers as required.
5. All competitors shall comply with the Australian Road Rules, for the cycle route.
6. All traffic advisory signs shall be placed in accordance with the approved Traffic Control Plan.
7. The NSW Police Force consent and conditions for bicycle races permit under the NSW Roads Transport Act 2013, Section 115.
8. Council's Executive Manager Governance and Internal Control must sight a copy of the Public Liability Insurance Policy for a minimum amount of \$20 million on which Dubbo Regional Council and NSW Police Force is specifically noted to be indemnified against any action resulting from the triathlon races.
9. The applicant is to submit to Council all the appropriate documentation required, accepting the above terms and conditions before a final approval is granted.

Dennis Valentine
Senior Traffic Engineer

REPORT

The guidelines for 'Bicycle Road Races' provides a comprehensive overview of the approval process and the requirement of those bodies and cycling organisations. Approval is required from the NSW Police Force under the NSW Road Transport Act 2013 Section 115. Junior triathlon events will be held in the Dubbo Aquatic and Leisure Centre and adjoining Victoria Park and No 1 Oval.

An Event and Traffic Management Plan, as attached, has been submitted including Traffic Control Plan, Event Calendar, Risk Assessment and Public Liability Insurance, Police approval, season race schedule and course maps. The NSW Police Force are also to be included on the insurance as an interested party.

Bicycle Road Race

A bicycle road race, which forms part of a triathlon, may be categorised as a Class 1 or 2 event with the difference being that one impacts on the major traffic transport system and the other does not. The request by Dubbo Triathlon Club for the use of Bligh and Macquarie streets and Old Dubbo Road for the bicycle leg is categorised as a Class 2 event.

The bicycle leg of the triathlon is a time trial where there is no drafting or pack riding permitted. Club triathlon races are conducted on a Sunday morning generally from 9.00 am to 11.00 am, with some selected events at varying times as detailed in the racing schedule. The swim leg is undertaken in the Macquarie River, and run leg is an out and back course along the Macquarie River corridor south from Ollie Robbins. If the Macquarie River is inaccessible the swim leg will be cancelled, with the event continuing as a run/ride format. The cycle leg commences at Ollie Robbins Oval, then south into Bligh Street, Macquarie Street and along Old Dubbo Road to a turnaround at a 4.5 km (Short Course), 9 km (Sprint Course) and a 20 km (Olympic Course). Following the swim leg, the athletes will transition to the bike leg that will require the bikes to be pushed to the eastern side of Bligh Street to commence the ride. Marshalls will be positioned to ensure safe road crossings.

Cyclists must undertake the road leg in accordance with the 'Australian Road Rules' with marshals provided at strategic locations to give directions to cyclists. 'Cyclists on Road' warning signs are strategically placed along the route and at intersections. The triathlon cycle leg is distinctively different from a normal cycle race, with no bunch start or sprint finish, and as such there is no considered requirement for traffic control. A Traffic Control Plan, prepared by Dubbo Traffic Control, details the requirements for the negotiation of the urban streets and rural road of the cycle leg. On return to Ollie Robbins Oval cyclists will dismount and commence an out and back run course along the river corridor. Marshalls will be strategically located along the cycle course to raise awareness to both cyclists and motorists alike.

The approval to Dubbo Triathlon Club will be for a 12 month period, covering seven triathlon races between September 2019 and April 2020. The nominated race dates are 22 September 2019, 27 October 2019, 10 November 2019, 1 December 2019, 19 January 2020, 9 February 2020 (inter-club event), 15 March 2020 and 5 April 2020. Conditions applicable to the

triathlon and cycle leg of the event will be prepared in consultation with the NSW Police Force and Council, as considered necessary.

The Club has a history of running safe and successful events for many years and have recently increased their resources to enhance the road safety environment.

It is therefore recommended that Council approval be granted for the Dubbo Triathlon Club to conduct their 2019/2020 season races in Macquarie Street and Old Dubbo Road for the cycle leg, in accordance with the approved Event and Traffic Management Plan, and conditioned by the NSW Police Force and Council.

Appendices:

- 1 [↓](#) Dubbo Triathlon Races 2019 - 2020 - Traffic Management Plan
- 2 [↓](#) Dubbo Triathlon Races 2019 - 2020 - Risk Assessment
- 3 [↓](#) Dubbo Triathlon Races 2019/2020 - Traffic Control Plan - Bligh Street and Old Dubbo Road
- 4 [↓](#) Dubbo Triathlon Races 2019/2020 - Sprint and Super Sprint Bike Course Map
- 5 [↓](#) Dubbo Triathlon Races 2019/2020 - Australian Certificate of Currency
- 6 [↓](#) Dubbo Triathlon Races 2019 - 2020 - Event Calendar
- 7 [↓](#) Dubbo Triathlon Races 2019/2020 - Special Event Resource



TRAFFIC MANAGEMENT PLAN

2019/20 RACE SEASON

BIKE COURSE –SPRINT DISTANCE AND SHORT COURSE

Pre-Race

- An assessment of road conditions will be undertaken prior to any race and signage displayed
- If road conditions are deemed unsafe, the Race Director cancel the bike leg
- The Race Director will conduct a pre-race participants briefing, including identification of bike start and finish point, identification of hazards e.g. road crossing and intersections
- Participants will be reminded that regular road rules will apply during the bike leg

Road Signage Installation

- Only Signage that meets Section 40 of Road Safety and Traffic Management guidelines, will be used
- Set out by at least two people with an ITCP qualification prior to the race briefing
- Signs will be laid out as per approved Traffic Control Plan (TCP)
- Additional “way finding” Club branded guidance signage can be added to the course at the discretion of the race director

Escort Vehicles (As per Police approval)

- Two Escort vehicles (Tail and Lead) Must be provided to create a positive awareness of the presence of participants on the road
- Escort vehicles will not stop or obstruct traffic
- Escort vehicles will travel with head and tail lamps on
- Lead Escort vehicle will be positioned ahead of the leading participant and is not to be overtaken by participants
- Tail Escort vehicles will be positioned approx. 300m behind the last participant
- Escort vehicles will be fitted with a flashing amber light on the highest point of the roof
- Escort vehicles will display signage in accordance with Section 40 of Road Safety and Traffic Management guidelines
 - Lead – “Caution cyclists following”,
 - Tail – “Caution Cyclists ahead”

Bike Marshal duties (Road Safety Team)

- As part of conditions of road use the Dubbo Triathlon Club will provide four road marshals for a regular Sprint distance, and three marshals for a Super Sprint Distance.
- The Dubbo Triathlon Club at no stage during its events will stop or control motor vehicles, unless in possession of an approved Traffic Control plan and the qualifications to do so
- The road marshals' major job is to make bicycle riders aware of motor vehicles movements on the road and traffic conditions
- Marshals will wear fluoro vests that are clearly visible to road users; they may also have flags or slow batons to warn riders of coming motor vehicle traffic
- All marshals will carry a two way radio, and back up mobile phones to make emergency calls if accidents/injuries occur
- Marshals will be located as per the approved TCP at the Bligh Street commencement of the bike ride, at the intersection of Bligh Street and Macquarie Street, and at the two turn around point of the bike leg
- Dubbo Triathlon Club will make sure all races are conducted to set out guidelines as provided that enable safe and incident free races to all parties affected
- In the absence of a nominated Medical Director, the Race Director will be responsible for managing the first response to illness or injury

Race Procedure

During the triathlon event the only time road ways are used is during the bike leg. Swimming and running legs do not require use of the road.

- At conclusion of the swim leg competitors will put on helmets and collect bicycles at transition
- They will then make their way from Ollie Robbins Oval across Bligh Street pushing their bikes
- They will get on bikes on the eastern side of Bligh Street and ride under NSW Police Guidelines
- They will move along Bligh Street, and make a right turn into Macquarie Street
- They will follow Macquarie Street out of town limits where it becomes the Old Dubbo Road
- They will turn at a distance of approximately 4.5 km (short course) or 9 km (sprint course) from start and return to transition area at Ollie Robins Oval
- They will then commence the run leg which is along the Macquarie River walking trail which at no time crosses on to roads
- Bike legs riders cannot ride in groups at any stage and will be riding singularly at all times – drafting is not permitted as per Triathlon Australia rules

Attachments to accompany this plan:

- Bike course map
- Traffic Control plan (TCP – designed by Dubbo Traffic Control)
- Police approval
- Council Approval



RISK ASSESSMENT - RISK REGISTER AND PROPOSED CONTROLS

Title:	Club Race Risk Assessment
Purpose:	To document risk assessment to manage health and safety hazards and risks at Club triathlon events
Applicability:	Club race days held from September 2019 to April 2020
Responsibility:	Race Director and Dubbo Triathlon Club Committee
Related information:	Risk assessment accompanies sanctioning documentation lodged to NSW Roads and Maritime, Police, Dubbo Regional Council and Tri Australia
Approved by:	Dubbo Triathlon Club Committee
Date:	6 th August 2019
Updated by:	Ben Orford
Date:	5 th August 2019

SWIM COURSE:

Inherent risk (what can happen if no controls are put in place)	Likelihood	Consequence	Inherent Risk level	Controls to be implemented (Provide brief descriptions here, add more detail for the higher risks either in the main text or attach as a separate table)	Residual Risk level (after controls are in place)	Person(s) responsible	Brief Comments (e.g. monitoring methods)
Competitor injury from clashes between competitors	<i>Unlikely</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> Design wave starts at appropriate intervals to minimise congestion 	<i>Low</i>	<i>Race Director</i>	
Low Water Quality / pollution causing Infections to competitors or Exposure to Blue Green Algae toxins	<i>Rare</i>	<i>Major</i>	<i>Moderate</i>	<ul style="list-style-type: none"> Monitor weekly reports for water quality status If red alert status at Dubbo cancel swim Assess water quality prior to race start and cancel swim leg if water quality is deemed unacceptable 	<i>Low</i>	<i>Race Director</i>	
Deterioration or debris in Water causing Competitor injury or drowning	<i>Rare</i>	<i>Major</i>	<i>Moderate</i>	<ul style="list-style-type: none"> Assess water conditions prior to race start Ensure water safety is sufficient for current conditions Consider redesign of swim course Cancel swim leg if water conditions are deemed unacceptable 	<i>Low</i>	<i>Race Director</i>	
Deterioration in Atmospheric Conditions, Cold/hot/storm/wind	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> Assess atmospheric conditions prior to and during the swim leg Consider delaying the race start or cancelling the swim leg if conditions are unacceptable If conditions deteriorate during the race, implement the Emergency Response Plan to evacuate the swim course 	<i>Low</i>	<i>Race Director</i>	

Fast flowing water causing Competitors to be unable to maintain position at start and possibility of missing swim exit	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> Assess water flow rate (use ML released from Burrendong Dam as guide) and if too fast cancel swim leg 	<i>Low</i>	<i>Race Director</i>	
Vessel enters course causing Competitor interference or injury	<i>Possible</i>	<i>Moderate</i>	<i>Moderate</i>	<ul style="list-style-type: none"> Assess at race start, only start if race if course is clear If necessary during race, Race Director implement the Emergency Response Plan to evacuate the swim course 	<i>Low</i>	<i>Race Director</i>	

BIKE COURSE:

Inherent risk (what can happen if no controls are put in place)	Likelihood	Consequence	Inherent Risk level	Controls to be implemented (Provide brief descriptions here, add more detail for the higher risks either in the main text or attach as a separate table)	Residual Risk level (after controls are in place)	Person(s) responsible	Brief Comments (e.g. monitoring methods)
Competitor injury due to Struck by vehicle	<i>Possible</i>	Major	<i>Catastrophic</i>	<ul style="list-style-type: none"> Remind competitors that they are responsible for their safety on course Remind competitors that they must give way to traffic at all times Make drivers aware of event in progress by placing warning signage marshals located at high risk locations, as described in the Traffic Management Plan 	<i>Moderate</i>	<i>Race Director</i>	
Competitor injury due to faulty equipment / Bike Condition	<i>Possible</i>	Major	<i>High</i>	<ul style="list-style-type: none"> Remind competitors that they are responsible for the safety of their own equipment Provide an opportunity for Technical Officials to inspect competitors' equipment and fastening of helmets 	<i>Moderate</i>	<i>Race Director</i>	
Competitor injury due to collision with another competitor Competitors gain an unfair advantage due to drafting Large Competitor Numbers	<i>Unlikely</i>	Major	<i>High</i>	<ul style="list-style-type: none"> Design wave starts at appropriate intervals to minimise congestion Technical Officials will be present on course in the form of tail and lead vehicles 	<i>Low</i>	<i>Race Director</i>	
Competitor injury due to collisions with spectators Competitor injury due to collisions with other road	<i>Unlikely</i>	<i>Moderate</i>	<i>Moderate</i>	<ul style="list-style-type: none"> Signage, barriers and marshals located at high risk locations, as described in the Traffic Management Plan 	<i>Low</i>	<i>Race Director</i>	

Aquatic Activity Operational Plan Template

4

users							
Course layout							
Competitor injury due to Poor road conditions	<i>Unlikely</i>	<i>Moderate</i>	<i>Moderate</i>	<ul style="list-style-type: none"> • Assess road conditions prior to race start • Consider redesign of bike course • Advise competitors of any hazards on the bike course • Marshals, signage, ambulances located at high risk locations as described in the Traffic Management 	<i>Low</i>	<i>Race Director</i>	
Competitor injury due to High winds, torrential rain other environmental factors	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> • Assess atmospheric conditions prior to and during the bike leg • Consider delaying the race start or cancelling the bike leg if conditions are unacceptable • If conditions deteriorate during the race, implement the Emergency Response Plan to evacuate the bike course 	<i>Low</i>	<i>Race Director</i>	

RUN COURSE:

Inherent risk (what can happen if no controls are put in place)	Likelihood	Consequence	Inherent Risk level	Controls to be implemented (Provide brief descriptions here, add more detail for the higher risks either in the main text or attach as a separate table)	Residual Risk level (after controls are in place)	Person(s) responsible	Brief Comments (e.g. monitoring methods)
Competitor sickness due to infection from a volunteer	<i>unlikely</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> • Ensure that all volunteers wear hygienic gloves when dealing with food and drinks 	<i>Low</i>	<i>Race Director</i>	
Competitor injury due to dehydration, exhaustion, Competitor Fitness	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> • Ensure sufficient aid stations on the run course • Pre-race advice to competitors to ensure sufficient hydration throughout the race • Access to medical assistance at the completion of the race 	<i>Low</i>	<i>Race Director</i>	
Competitor injury due to high winds, lightning or extreme heat	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> • Assess atmospheric conditions prior to and during the race • Consider delaying the race start if conditions are unacceptable. • If conditions deteriorate during the race, implement the Emergency Response Plan to evacuate the run course • Consider locating additional aid stations if heat is extreme 	<i>Low</i>	<i>Race Director</i>	
Competitor injury due to a collision with a competitor on the bike course	<i>Possible</i>	<i>Minor</i>	<i>Low</i>	<ul style="list-style-type: none"> • Ensure a safe separation between the bike course and the run course 	<i>Low</i>	<i>Race Director</i>	

Appendix 1: the qualitative measures of likelihood

LEVEL	DESCRIPTOR	LIKELIHOOD
A	Almost certain	Is expected to occur during this event
B	Likely	Will probably occur during this event
C	Possible	Might occur at some time (perhaps every 2-3 years)
D	Unlikely	Could occur at some time (perhaps every 4-10 years)
E	Rare	May occur only in exceptional circumstances (in more than 10 years)

Appendix 2: the qualitative measures of consequence or impact

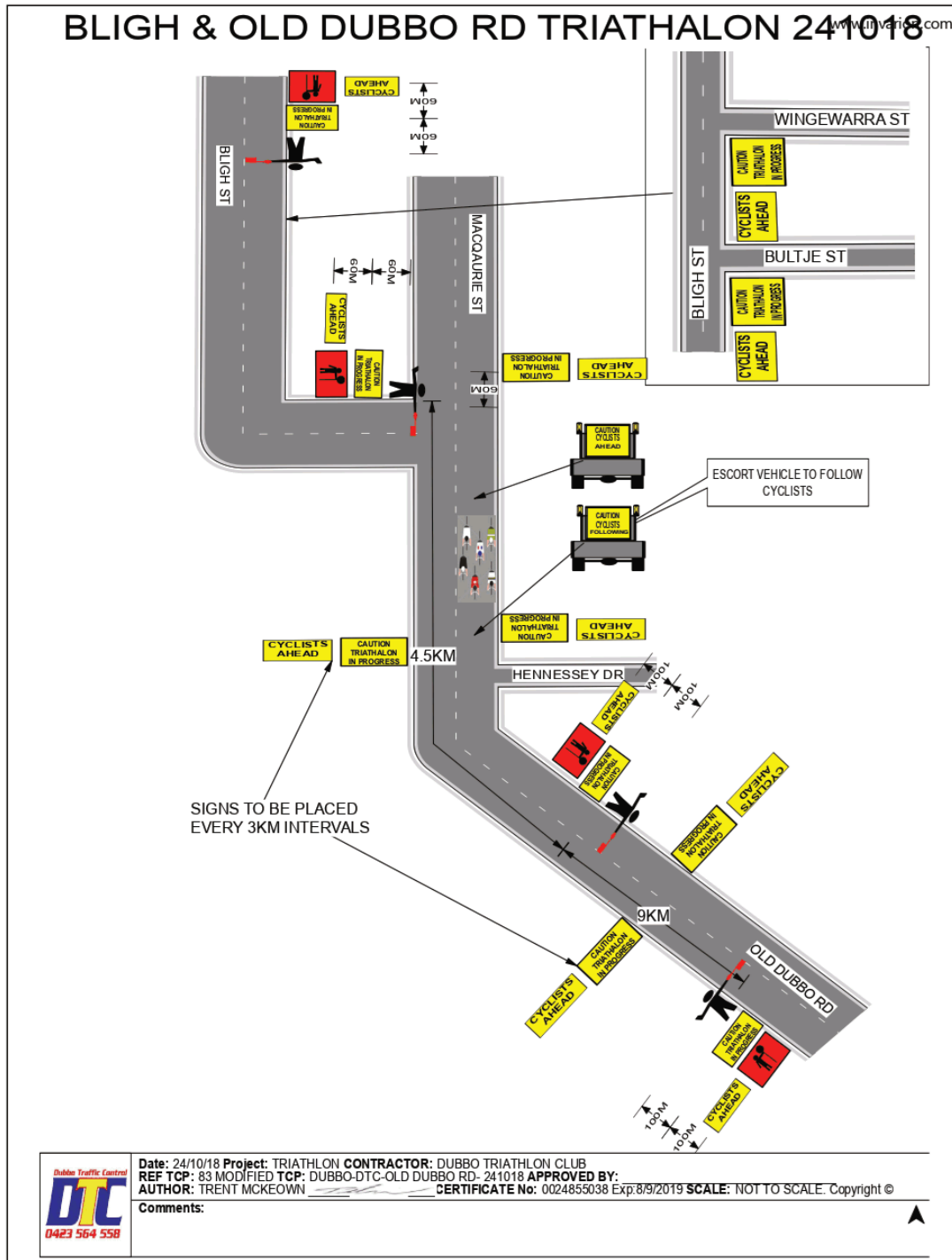
LEVEL	DESCRIPTOR	MOST LIKELY CONSEQUENCE IF THE RISK OCCURRED
5	Catastrophic	One or more fatalities, or multiple significant injuries with extended hospitalisation, or wide spread inconvenience to the public over protracted period, or likely to appear as front page media reports, or cost of damage over \$1M, or significant unrecoverable damage to the environment
4	Major	Significant injuries (requiring hospital treatment), or major inconvenience to the public, or definitely appear in media, or cost of damage \$100K - \$1M, or environmental impact that is unconfined and requires long term recovery/residual damage
3	Moderate	One significant injury (requiring hospital treatment), or moderate inconvenience to the public, or would probably appear in media, or cost of damage \$10K - \$100K, or environmental impact that is confined with medium term recovery
2	Minor	Small number of minor injuries requiring first aid treatment, or some inconvenience to the public, or may appear in media, or cost of damage \$1K - \$10K, or environmental impact locally confined with short term recovery
1	Insignificant	One injury requiring first aid treatment, or cost of damage up to \$1K, or environmental impact locally confined and promptly reversible

Appendix 3: The risk level using the Probability Matrix

Likelihood	Consequences				
	Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
A (almost certain)	Moderate risk	Moderate risk	High risk	Extreme risk	Extreme risk
B (likely)	Low risk	Moderate risk	High risk	Extreme risk	Extreme risk
C (possible)	Low risk	Low risk	Moderate risk	High risk	Extreme risk
D (unlikely)	Low risk	Low risk	Moderate risk	High risk	High risk
E (rare)	Low risk	Low risk	Low risk	Moderate risk	High risk

KEY:

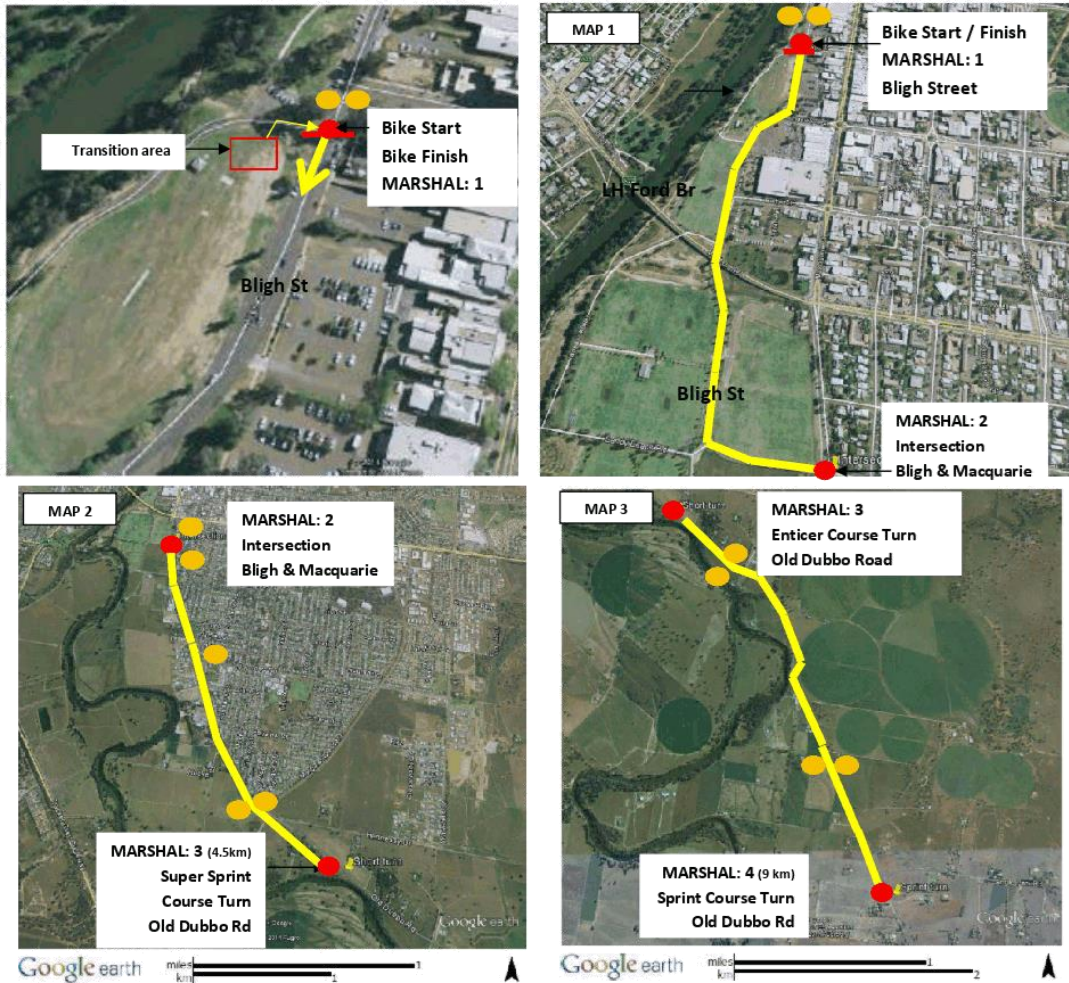
Extreme risk	Attention required before applying for licence
High risk	Attention needed, preferably before applying for licence, certainly before event
Moderate risk	Requires constant vigilance during event
Low risk	Requires monitoring during event





SPRINT and SUPER SPRINT BIKE COURSE MAP

BIKE COURSE –SUPER SPRINT (9km) and SPRINT (18km)



Notes:

- * Race director to conduct pre-race safety inspection of the course and participant's race briefing
- * Signage on roads including "Cyclists ahead" and "Caution triathlon in process"
- * Bike legs are out and back starting at Bligh St adjacent to transition area on Ollie Robbins oval



Certificate of Currency

Type of Cover:	Broadform Liability
The Insured:	Triathlon Australia including all Affiliated Organisations including State and Territory Associations, Affiliated Clubs, Officials, Accredited Coaches, Voluntary Workers, Members (including professional license holders), executives, and Race Directors and Event Organisers
Period Of Insurance:	14 July 2019 To 4:00pm on 30 June 2020
The Business:	Organisation and running of sanctioned triathlon, duathlon, paratriathlon aquathon, multisport and/or single discipline events where appropriate and including recognised training sessions and recognised participation programs. The development and training of coaches, race officials and race coordinators. The preparation of national teams for qualification and participation in Olympic Games, World Championships, Age Group Events and key International Events. Governance, development and promotion of the sport of Triathlon in Australia, social activities including awards presentations, fundraising, BBQs and other social gatherings.
Affiliated Club	Dubbo Triathlon Club
Interested Party/ies:	<p>The specified entity(ies) below are hereby noted under this Policy for their respective rights and interests in Triathlon Australia and/or Triathlon Australia organised or sanctioned events;</p> <p>Dubbo Regional Council, NSW Police Force.</p>
Limits of Liability:	<p>Public Liability \$20,000,000 any one Occurrence</p> <p>Products Liability \$20,000,000 any one Period of Insurance</p> <p>Property in Physical or Legal Control \$250,000 limited in the aggregate Advertising Injury \$20,000,000 any one Occurrence</p>

Insurer: Underwritten for certain underwriters at Lloyd's of London & Chubb Insurance Australia Limited by their agent SLE Worldwide Australia Pty Ltd. under binding authorities B128416380W18 & 001-2018 respectively.
\$15,000,000 x \$5,000,000 Underwritten for certain underwriters at Lloyd's of London & Chubb Insurance Australia Limited by their agent SLE Worldwide Australia Pty Ltd. under binding authorities B128416380W18 & 001-2018 respectively.

Policy Number: 205095510305

Geographical Limits: Worldwide

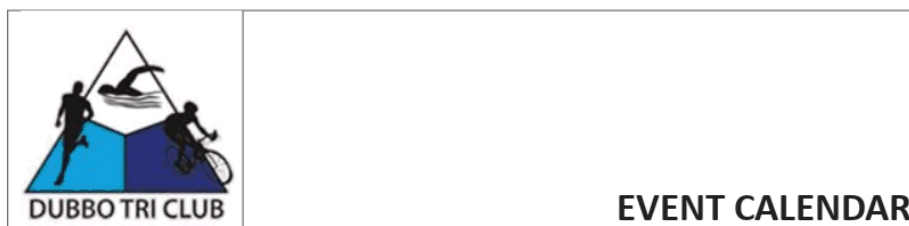
Broker: V INSURANCE GROUP
Level 25 123 Pitt Street
Sydney NSW

Stamped & Dated: 15 July 2019



SLE Worldwide Australia Pty Limited is acting under the authority of the Insurers and will be effecting this contract of insurance as agent of the Insurer and not the Insured. ABN 15 066 698 575 AFSL License No: 237268

Please Note: Whilst an expiry date has been indicated, it should be known this policy can be cancelled at any time in the future. Accordingly reliance should not be placed on the expiry date.



2019/20 DRAFT RACE SEASON - PROPOSED SCHEDULE OF EVENTS

Club Series (Hosted by Dubbo Triathlon Club- Macquarie River, Tracker riley foreshore between boat ramp and sandy beach, Ollie Robbins, Bligh St Macquarie St, and Old Dubbo Rd)

Race no	Date	Event	Time	# of Competitors
1	Sunday 22nd September 2019	Season opener Duathlon (run-ride-run)	9am	30
2	Sunday 27th October 2019	Club Race Day – Super sprint	9am	30
3	Sunday 10th November 2019	Michael Martin Charity Teams Day(*)	9am	60
4	Sunday 1 st December 2019	Club Race Day -sprint and super sprint	9am	30
5	Sunday 19 th January 2020 (Joint with Tri-stars)	Club Race Day-off road bike! Joint with Tristars	Early 8am to beat heat	50
6	Sunday 9th February 2020	INTERCLUB sprint and super sprint	9am	100
7	Sunday 15 th March 2020	Ladies Day – super sprint only	9am	50
8	Sunday 5 th April 2020	Club Race Day Handicap super sprint	9am	20

Interclub Series (One race hosted by each of the central west clubs)

Date	Host	Time	# of Competitors
Sunday 20 th October 2019	Cowra	6.30am – 11am	100-150
Sunday 3 rd November 2019	Forbes	6.30am – 11am	100-150
Sunday 17 th November 2019	Mudgee	6.30am – 11am	100-150
Saturday 26 th January 2020	Bathurst	6.30am – 11am	100-150
Sunday 9th February 2020	Dubbo	6.30am – 11am	100-150
Sunday 16 th February 2020	Orange	6.30am – 11am	100-150

Junior Tri-Stars (Hosted by Dubbo Triathlon Club – Dubbo Aquatic Centre, Victoria Park)

Race no	Date	Event	Format	# of Competitors
1	Sunday 13th October 2019	Dubbo Pool / Victoria Park	Adult Aqua-thon: 200m Swim 2km run Tri-Star short: 10m Swim 250m Ride 250m Run Tri-Star medium: 25m Swim 500m Ride 500m Run Tri-Star long: 50m Swim 1.0km Ride 1.0km Run	50-100
2	Sunday 24th Nov 2019			50-100
3	Sunday 8th Dec 2019			50-100
4	Sunday 19th Jan 2020 (Joint with Seniors)	River/ Cycleway		50-100
5	Sunday 23 rd Feb 2020	Dubbo Pool / Victoria Park		50-100
6	Sunday 22 nd Mar 2020			50-100

River Swim challenge series (Hosted by Dubbo Triathlon Club – Macquarie River , Ollie Robbins and Sandy Beach)

Race no	Date	Event	Format	# of Competitors
1	Friday 25 th Oct 2019	Sandy Beach to Boat Ramp	short: 150m Swim	15-40
2	Friday 22 nd Nov 2019		medium (pending bridge works): 500m Swim	15-40
3	Friday 13 th Dec 2019		long: 1300m Swim	15-40
4	Friday 31 st Jan 2020			15-40
5	Friday 21 st Feb 2020			15-40
6	Friday 20 th Mar 2020			15-40

Additional notes:

- Event run sheet will generally include event set-up and briefing between 7am and 9am, race/s between 9am and 10.30am, presentation and pack-up between 10.30 and 11am.

Special Event Resources

Special Event Transport Management Plan Template

Refer to Chapter 7 of the Guide for a complete description of the Transport Management Plan

I EVENT DETAILS

I.1 Event summary

Event Name: Dubbo Triathlon Club 19/20 Series
 Event Location: Ollie Robbins Oval
 Event Date: See Attachment Event Start Time: 7am Event Finish Time: 11am
 Event Setup Start Time: 6am Event Packdown Finish Time: 12 noon
 Event is off-street on-street moving on-street non-moving
 held regularly throughout the year (calendar attached)

I.2 Contact names

Event Organiser * Dubbo Triathlon Club
 Phone: Phone: Fax: Mobile: 0421 777504 E-mail: ben.orford@rms.nsw.gov.au
 Event Management Company (if applicable) Nil
 Phone: Phone: Fax: Mobile: E-mail:
 Police Sergeant Ian Hobden
 Phone: 6683 1656 Fax: Mobile: E-mail: i.hobden@police.nsw.gov.au
 Council Dennis Valentine
 Phone: Phone: Fax: Mobile: 0414 244 350 E-mail: Dennis.Valentine@Dubbo.nsw.gov.au
 Roads & Traffic Authority (if Class 1) N/A
 Phone: Phone: Fax: Mobile: E-mail:

*Note: The Event Organiser is the person or organisation in whose name the Public Liability Insurance is taken out

I.3 Brief description of the event (one paragraph)

Dubbo Tri club will host regular events from Sept 2019 -> April 2020 as part of the annual club calendar.
 Events comprise: Swim -> Macquarie River
 Ride -> Councils local roads
 Run -> Macquarie River foreshore

2 RISK MANAGEMENT - TRAFFIC

- | | |
|-------------------------------|--|
| CLASS 1
CLASS 2
CLASS 3 | 2.1 Occupational Health & Safety - Traffic Control |
| | <input checked="" type="checkbox"/> Risk assessment plan (or plans) attached |
| | 2.2 Public Liability Insurance |
| | <input checked="" type="checkbox"/> Public liability insurance arranged. Certificate of currency attached. |
| | 2.3 Police |
| | <input checked="" type="checkbox"/> Police written approval obtained |
| | 2.4 Fire Brigades and Ambulance |
| | <input checked="" type="checkbox"/> Fire brigades notified |
| | <input checked="" type="checkbox"/> Ambulance notified |

3 TRAFFIC AND TRANSPORT MANAGEMENT

- | | |
|---|--|
| CLASS 1
CLASS 2
CLASS 3 | 3.1 The route or location |
| | <input checked="" type="checkbox"/> Map attached |
| | 3.2 Parking |
| | <input type="checkbox"/> Parking organised - details attached |
| | <input checked="" type="checkbox"/> Parking not required |
| | 3.3 Construction, traffic calming and traffic generating developments |
| | <input type="checkbox"/> Plans to minimise impact of construction activities, traffic calming devices or traffic-generating developments attached |
| | <input checked="" type="checkbox"/> There are no construction activities, traffic calming devices or traffic-generating developments at the location/route or on the detour routes |
| 3.4 Trusts, authorities or Government enterprises | |
| <input checked="" type="checkbox"/> This event uses a facility managed by a trust, authority or enterprise; written approval attached | |
| <input type="checkbox"/> This event does not use a facility managed by a trust, authority or enterprise | |
| 3.5 Impact on/of Public transport | |
| <input type="checkbox"/> Public transport plans created - details attached | |
| <input checked="" type="checkbox"/> Public transport not impacted or will not impact event | |
| 3.6 Reopening roads after moving events | |
| <input type="checkbox"/> This is a moving event - details attached. | |
| <input checked="" type="checkbox"/> This is a non-moving event. | |
| 3.7 Traffic management requirements unique to this event | |
| <input checked="" type="checkbox"/> Description of unique traffic management requirements attached | |
| <input type="checkbox"/> There are no unique traffic requirements for this event | |
| 3.8 Contingency plans | |
| <input type="checkbox"/> Contingency plans attached | |

CLASS 1	CLASS 2	3.9 Heavy vehicle impacts
		<input type="checkbox"/> Impacts heavy vehicles - RTA to manage <input checked="" type="checkbox"/> Does not impact heavy vehicles
		3.10 Special event clearways
		<input type="checkbox"/> Special event clearways required - RTA to arrange <input checked="" type="checkbox"/> Special event clearways not required

4 MINIMISING IMPACT ON NON-EVENT COMMUNITY & EMERGENCY SERVICES

CLASS 1	CLASS 3	4.1 Access for local residents, businesses, hospitals and emergency vehicles
		<input type="checkbox"/> Plans to minimise impact on non-event community attached <input checked="" type="checkbox"/> This event does not impact the non-event community either on the main route (or location) or detour routes
	CLASS 2	4.2 Advertise traffic management arrangements
		<input type="checkbox"/> Road closures or restrictions - advertising medium and copy of proposed advertisements attached <input type="checkbox"/> No road closures or restrictions but special event clearways in place - advertising medium and copy of proposed advertisements attached <input checked="" type="checkbox"/> No road closures, restrictions or special event clearways - advertising not required
		4.3 Special event warning signs
		<input type="checkbox"/> Special event information signs are described in the Traffic Control Plan/s <input checked="" type="checkbox"/> This event does not require special event warning signs
		4.4 Permanent Variable Message Signs
		<input type="checkbox"/> Messages, locations and times attached <input checked="" type="checkbox"/> This event does not use permanent Variable Message Signs
		4.5 Portable Variable Message Signs
		<input type="checkbox"/> The proposed messages and locations for portable VMS are attached <input checked="" type="checkbox"/> This event does not use portable VMS

5 PRIVACY NOTICE

The "Personal Information" contained in the completed Transport Management Plan may be collected and held by the NSW Police, the NSW Roads and Traffic Authority (RTA), or Local Government.

I declare that the details in this application are true and complete. I understand that:

- The "personal information" is being collected for submission of the Transport Management Plan for the event described in Section 1 of this document.
- I must supply the information under the Road Transport Legislation (as defined in the *Road Transport (General) Act 1999*) and the *Roads Act 1993*.
- Failure to supply full details and to sign or confirm this declaration can result in the event not proceeding.
- The "personal information" being supplied is either my own or I have the approval of the person concerned to provide his/her "personal information".
- The "personal information" held by the Police, RTA or Local Government may be disclosed inside and outside of NSW to event managers or any other person or organisation required to manage or provide resources required to conduct the event or to any business, road user or resident who may be impacted by the event.
- The person to whom the "personal information" relates has a right to access or correct it in accordance with the provisions of the relevant privacy legislation.

6 APPROVAL

TMP Approved by: Dubbo Traffic Control Event Organiser 1/8/18 Date

7 AUTHORISATION TO *REGULATE TRAFFIC

Council's traffic management requirements have been met. Regulation of traffic is therefore authorised for all non-classified roads described in the risk management plans attached to this TMP.

Regulation of traffic authorised by: Council Date

The RTA's traffic management requirements have been met. Regulation of traffic is therefore authorised for all classified roads described in the risk management plans attached to this TMP.

Regulation of traffic authorised by: RTA Date

* "Regulate traffic" means restrict or prohibit the passage along a road of persons, vehicles or animals (Roads Act, 1993). Council and RTA require traffic to be regulated as described in the risk management plans with the layouts installed under the direction of a qualified person.



DUBBO REGIONAL
COUNCIL

REPORT: Dubbo Airport Precinct - Proposed Directional Signage

AUTHOR: Senior Traffic Engineer
REPORT DATE: 2 September 2019
TRIM REFERENCE: ID19/1217

EXECUTIVE SUMMARY

In recent years the Dubbo Airport Precinct has experienced significant upgrades of the Terminal facilities and runway, with an ongoing development of numerous services and facilities within the general aviation area of the Airport via Judy Jakins Drive that now requires an enhanced directional signage scheme (white on blue) along Cooreena Road and Arthur Butler Drive.

The existing advance and intersection road names and airport directional signage along the Mitchell Highway and immediately within Cooreena Road will be retained with the existing, older Royal Flying Doctor Service and Fire Control Centre signs removed.

Development within the Precinct comprises of General Aviation (private/commercial operations), Royal Flying Doctor Service (RFDS), NSW Rural Fire Service Training Academy (RFSTA), Rural Fire Service (RFS), State Emergency Services and Volunteer Rescue Association (SES/VRA) operations, Police Training Facility (proposed) and the Royal Flying Doctor Experience (approved tourist attraction). New tourist attraction directional signage (white on brown) to the Royal Flying Doctor Experience will be installed on the Mitchell Highway and in Cooreena Road administered by the Roads and Maritime Services with costs being the responsibility of the RFDS.

Community and services directional signs are implemented in accordance with the standards and guidelines with the nominated services and facilities eligible for directional signs along the local roads within the Airport Precinct. New sign structures will be installed to accommodate the approved facilities. Dubbo Airport Precinct Proposed Directional Signage location map is attached as **Appendix 1**.

It is recommended that Council approve the inclusion of the General Aviation, RFSTA, RFDS, RFS, SES/VRA operations, and proposed Police Training Facility as community and service facilities, and be included in Council's existing Directional Signs Policy and that white on blue directional signs be installed in Cooreena Road in advance of the Arthur Butler Drive intersection, in Arthur Butler Drive in advance of the Cooreena Road intersection and at the Judy Jakins Drive intersection.

FINANCIAL IMPLICATIONS

The associated costs for the supply and installation of the white on blue directional signs will be funded from the airport budget.

POLICY IMPLICATIONS

Council's Directional Signs Policy will need to be updated to include the General Aviation, Royal Flying Doctor Service, Rural Fire Service, SES/VRA operations, and proposed Police Training Facility as eligible for directional signage.

RECOMMENDATION TO THE LOCAL TRAFFIC COMMITTEE

1. That white on blue directional signs be installed in Cooreena Road in advance of the Arthur Butler Drive intersection, in Arthur Butler Drive in advance of the Cooreena Road intersection and at the Judy Jakins Drive intersection for Royal Flying Doctor Service, NSW Rural Fire Service Training Academy, Rural Fire Service, SES/VRA operations, proposed Police Training Facility and General Aviation.
2. That Council's existing Directional Signs Policy be updated to include the new signage.
3. The existing Royal Flying Doctor Service and Fire Control Centre directional signs to be removed.

LOCAL TRAFFIC COMMITTEE CONSIDERATION

This matter was considered by the Local Traffic Committee at its meeting held on Monday, 2 September 2019. The Committee had unanimous support in the adoption of the recommendation.

RECOMMENDATION

1. That white on blue directional signs be installed in Cooreena Road in advance of the Arthur Butler Drive intersection, in Arthur Butler Drive in advance of the Cooreena Road intersection and at the Judy Jakins Drive intersection for Royal Flying Doctor Service, NSW Rural Fire Service Training Academy, Rural Fire Service, SES/VRA operations, proposed Police Training Facility and General Aviation.
2. That Council's existing Directional Signs Policy be updated to include the new signage.
3. The existing Royal Flying Doctor Service and Fire Control Centre directional signs to be removed.

Dennis Valentine
Senior Traffic Engineer

REPORT

This report deals with directional signage (white on blue) for the Dubbo Airport Precinct located in the rural environment along Cooreena Road, north of the Arthur Butler Drive intersection and the Airport Terminal access to the Judy Jakins Drive intersection. The Precinct, has over recent years, experienced terminal and runway upgrades and a dramatic growth in development within the northern area of the Airport with the uptake of service providers and auxiliary aviation facilities. The existing directional signage in the Precinct incorporates Mitchell Highway advance and intersection road name and airport signs with similar signs in Cooreena Road, including directional signs to the Royal Flying Doctor Service and Fire Control Centre.

The Precinct now incorporates a number of existing, newly completed and proposed developments such as General Aviation (private/commercial operations), Royal Flying Doctor Service (RFDS), NSW Rural Fire Service Training Academy (RFSTA), Rural Fire Service (RFS), State Emergency Services and Volunteer Rescue Association (SES/VRA) operations, Police Training Facility (proposed) and the Royal Flying Doctor Experience (tourist attraction). Approval has been granted from the Tourist Attraction Signposting Assessment Committee (TASAC) for tourist attraction signs to the Royal Flying Doctor Experience. These will be separate signs (white on brown) and will be installed on the Mitchell Highway and integrated into the local Precinct roads. The Roads and Maritime Services are administering the tourist signs with costs the responsibility of the RFDS.

With the influx of development there is now the requirement to provide an expanded on road directional signage upgrade to the Airport Precinct to distinguish between Terminal activities and the northern General Aviation area. Directional signage is implemented in accordance with the Australian Standards, Roads and Maritime Services (RMS) guidelines and Council's Directional Signs Policy. The services and facilities, as nominated, are all eligible for directional signage along the local road network in the Airport Precinct. The existing white on blue directional signs to the RFDS and Fire Control Centre will be removed. The existing Airport and road name signs will remain.

To adequately direct motorists to the Airport Terminal and the General Aviation Precinct (services and facilities) it is proposed to install multi-plate sign posts in Cooreena Road in advance to the Arthur Butler Drive, Cooreena Road and Judy Jakins Drive intersection and in Arthur Butler Drive in advance of Cooreena Road when exiting the Airport Terminal.

Dubbo City Regional Airport – Signage Locations (see Appendix 1)

Location 1: Cooreena Road, left hand side, 70 km zone, advance sign to Arthur Butler Drive. Six individual plates, sized accordingly.

Plate 1	White text on blue, single line (header plate)	GENERAL AVIATION PRECINCT
Plate 2	140 mm white text on blue, single line	ROYAL FLYING DOCTOR ←
Plate 3	140 mm white text on blue, single line	NSW RFS TRAINING ACADEMY ←
Plate 4	140 mm white text on blue, single line	RURAL FIRE SERVICES ←
Plate 5	140 mm white text on blue, single line	SES/VRA FACILITY ←
Plate 6	140 mm white text on blue, single line	Proposed POLICE FACILITY to be included

Sample:



Location 2: Cooreena Road and Judy Jakins Drive intersection, left hand side existing structure, back-to-back signs, two-way sign (both directions).

Seven individual plates, sized accordingly.

Arrows point left or right depending on approach.

Plate 1	White text on blue, single line (header plate)	GENERAL AVIATION PRECINCT
Plate 2	140 mm white text on blue, single line	ROYAL FLYING DOCTOR SERVICE
Plate 3	140 mm white text on blue, single line	NSW RFS TRAINING ACADEMY
Plate 4	140 mm white text on blue, single line	RURAL FIRE SERVICES
Plate 5	140 mm white text on blue, single line	SES/VRA FACILITY
Plate 6	140 mm white text on blue, single line	Proposed POLICE FACILITY to be included
Plate 7	140 mm white text on brown, double line	ROYAL FLYING DOCTOR EXPERIENCE

Sample:



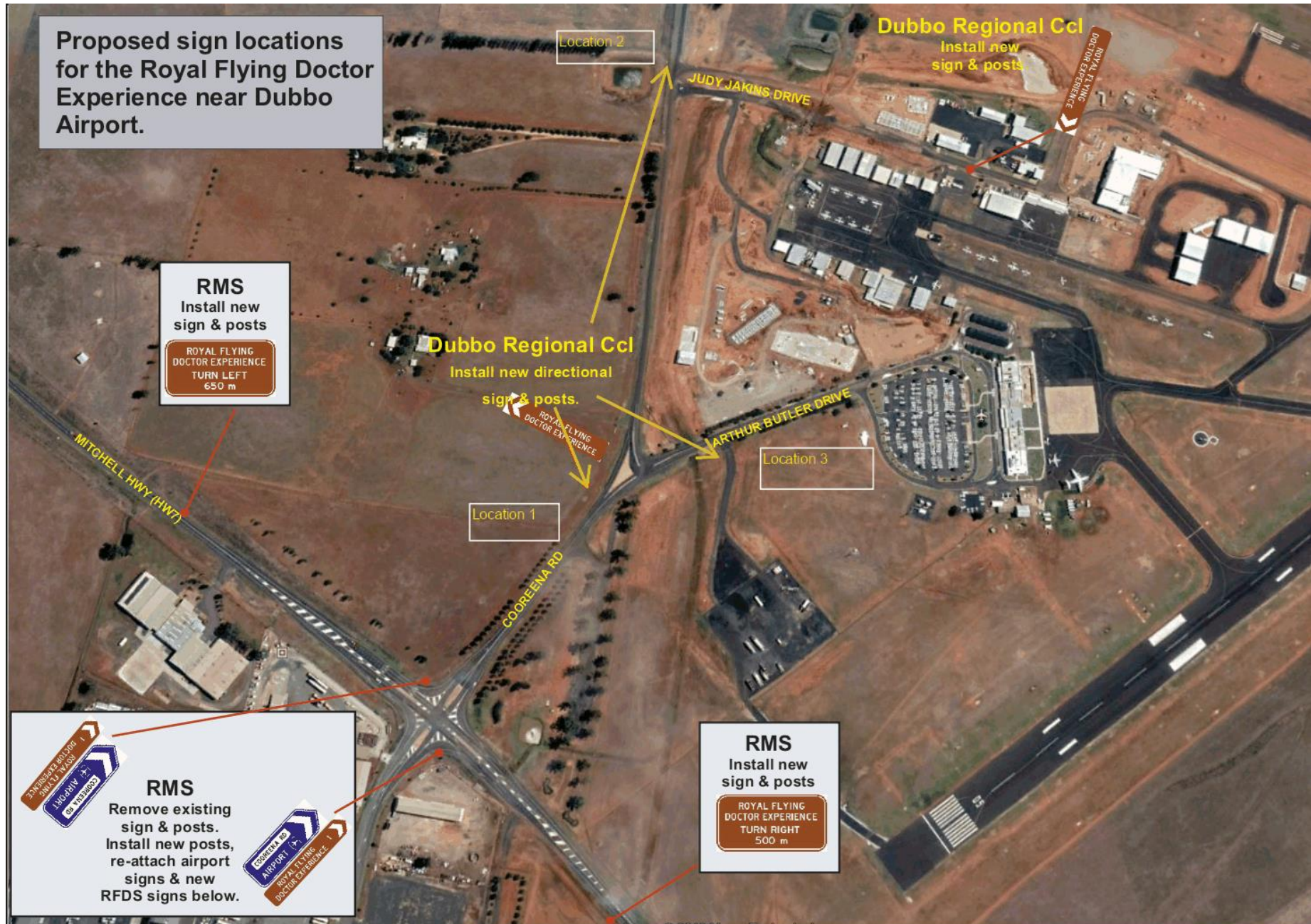
Location 3: Arthur Butler Drive (leaving Airport terminal).
Eight individual plates, sized accordingly.
Single plate, directional.

Plate 1	140 mm white text on blue, single line	DUBBO ←
Plate 2	140 mm white text on blue, single line	GENERAL AVIATION PRECINCT →
Plate 3	140 mm white text on blue, single line	NSW RFS TRAINING ACADEMY ←
Plate 4	140 mm white text on blue, single line	ROYAL FLYING DOCTOR SERVICE →
Plate 5	140 mm white text on blue, single line	RURAL FIRE SERVICES →
Plate 6	140 mm white text on blue, single line	SES/VRA FACILITY →
Plate 7		Proposed POLICE FACILITY
Plate 8	140 mm white text on brown, double line	ROYAL FLYING DOCTOR EXPERIENCE →

It is recommended that Council approve the inclusion of the General Aviation Precinct, Royal Flying Doctor Service, NSW Rural Fire Service Training Academy, Rural Fire Service, SES/VRA operations, and proposed Police Training Facility as community and service facilities and be included in Council's existing Directional Signs Policy, and that white on blue directional signs be installed in Cooreena Road in advance of the Arthur Butler Drive intersection, in Arthur Butler Drive in advance of the Cooreena Road intersection and at the Judy Jakins Drive intersection.

Appendices:

[1](#) Dubbo Airport Precinct - Directional Signs Location Map





DUBBO REGIONAL
COUNCIL

REPORT: Orana Heights Public School, Oak Street Dubbo - No Parking Zone

AUTHOR: Senior Traffic Engineer
REPORT DATE: 2 September 2019
TRIM REFERENCE: ID19/1218

EXECUTIVE SUMMARY

The Principal of Orana Heights Public School has requested Council's consideration to the introduction of a 'No Parking Zone' in Oak Street, Dubbo. The school has experienced an increase in student numbers over the past few years where parking activity has become more challenging with student safety a priority.

The school has frontage to Birch Avenue and Oak Street with both streets having off street car parking areas. It is intended to encourage more set-down and pick-up activity in Oak Street to relieve the congestion and vehicle conflict between the Birch Avenue off street car parking access and kerbside parking vehicle movements in Birch Avenue. Long term parking in Oak Street occupies close and optimal parking adjacent to Jubilee Park. This locality would be more desirable as a student drop-off and pick-up zone. A zone of approximately 60 m can be allocated to Oak Street.

It is recommended that Council approval be granted for a 'No Parking Zone' on the northern side of Oak Street adjacent to Jubilee Park as detailed in Council's Plan TM 7305 (**Appendix 1**).

FINANCIAL IMPLICATIONS

The allocation of funds will be made available from the Traffic Improvements Vote – Urban Signs and Lines within the Traffic Management Function.

POLICY IMPLICATIONS

There are no policy implications arising from this report.

RECOMMENDATION TO THE LOCAL TRAFFIC COMMITTEE

That Council implement a 'No Parking Zone' time restricted to standard 'School Zone' times in Oak Street adjacent to Jubilee Park, immediately east of the School frontage and that the pedestrian refuge 'No Stopping Zone' time restrictions be change to 'School Zone' times in accordance with Council's Plan TM 7305 (Appendix 1).

LOCAL TRAFFIC COMMITTEE CONSIDERATION

This matter was considered by the Local Traffic Committee at its meeting held on Monday, 2 September 2019. The Committee did not have unanimous support in the adoption of the recommendation as Roads and Maritime Service did not concur generally with this recommendation, they support the morning no parking zone times, however do not support the afternoon no parking zone times, also advises that parallel parking is more desirable in the timed no parking zones. RMS also suggest that the No Stopping zones should be changed to 24/7 no stopping, not timed due to the pedestrian refuge in that location. Accordingly should Council determine to proceed with the recommendation, the Roads and Maritime Services and NSW Police will be provided with an opportunity to appeal the decision. Should an appeal be forthcoming the matter will be forwarded to the Regional Traffic Committee for determination.

RECOMMENDATION

That Council implement a 'No Parking Zone' time restricted to standard 'School Zone' times in Oak Street adjacent to Jubilee Park, immediately east of the School frontage and that the pedestrian refuge 'No Stopping Zone' time restrictions be change to 'School Zone' times in accordance with Council's Plan TM 7305 (Appendix 1).

Dennis Valantine
Senior Traffic Engineer

REPORT

Following receipt of correspondence from the Principal of Orana Heights Public School an onsite meeting was undertaken with Council's Senior Traffic Engineer on the current safety issues around the school environment, particular to the set-down and pick-up activities in Birch Avenue and Oak Street. The school has frontage to both streets with an off street car parking area to Birch Avenue and Oak Street (staff only). Student numbers have steadily increased over the years resulting in additional vehicle movements and safety concerns.

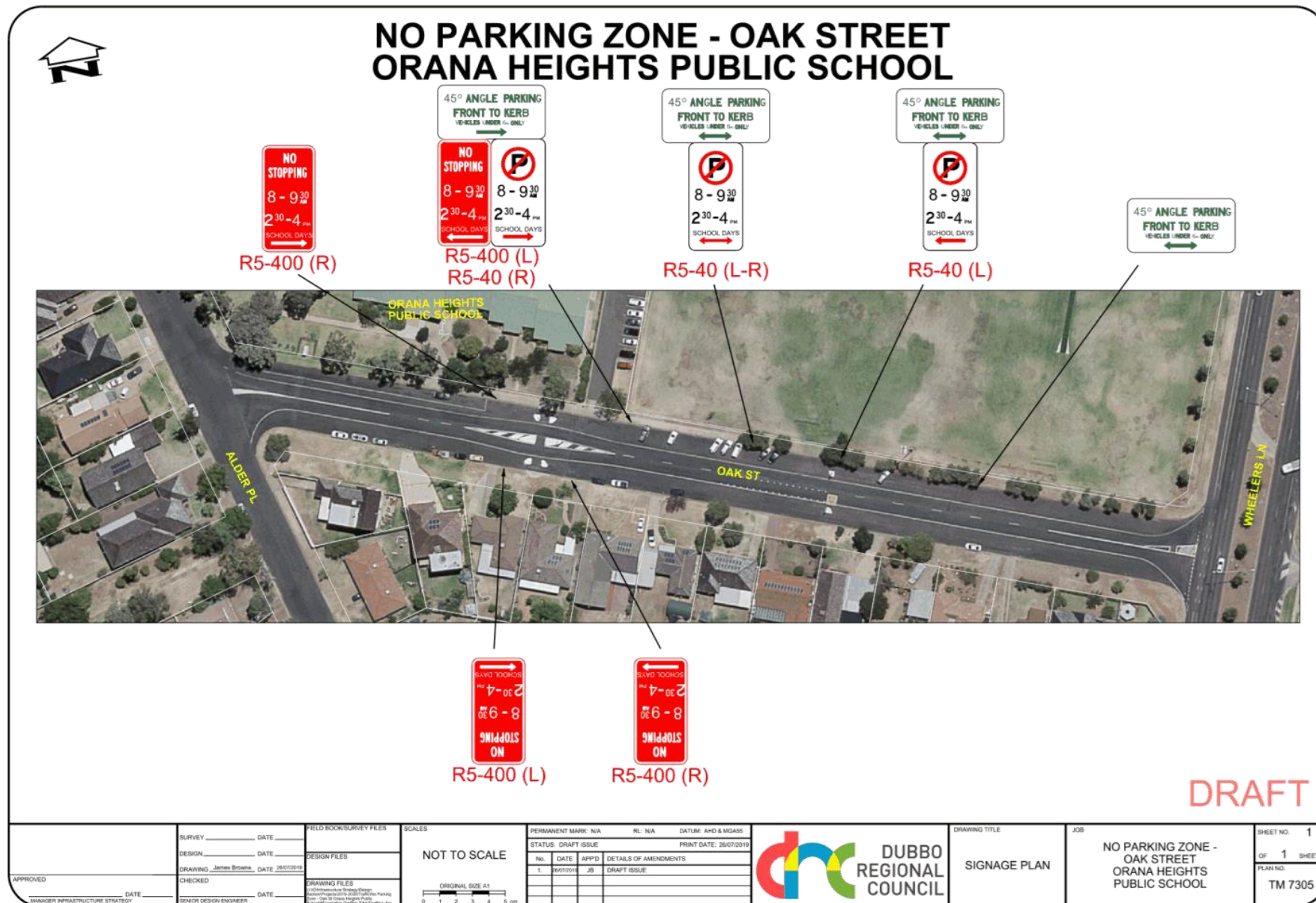
The inspection revealed that Oak Street and Birch Avenue are heavily trafficked with a high parking demand. The Birch Avenue off street car parking area is very congested, with entry and exit conflict at the access. However, Birch Avenue appears not to experience an over active parking environment as compared to Oak Street, with the parking activity considered orderly and operationally safe. Oak Street is a wide street with an existing 'School Bus Zone' frontage extending west into Alder Place with some bus queueing experienced. A pedestrian refuge is located towards the eastern area of the school frontage, encompassed by 'No Stopping Zones' however, the time periods do not reflect the 'School Zone' times and should be changed.

There is a school off street staff car parking area on the eastern side of the school, adjacent to Jubilee Park. However, the angle parking environment adjacent to Jubilee Park towards Wheelers Lane is heavily parked by staff minimising the opportunity for close set-down and pick-up activities. To relieve some of the congestion with the off street car parking area off Birch Avenue, consideration has been given to introducing a 'No Parking Zone' in Oak Street, encouraging a migration of vehicles to a more convenient and accessible kerbside parking environment. The Oak Street zone will also ensure there is a designated area for set-down and pick-up activities rather than having to contend with the fragmentation caused by long term staff parking.

It is recommended that Council implement a 'No Parking Zone' time restricted to standard 'School Zone' times in Oak Street adjacent to Jubilee Park, immediately east of the School frontage and the pedestrian refuge 'No Stopping Zone' time restriction be change to 'School Zone' times in accordance with Council's Plan TM 7305 (**Appendix 1**).

Appendices:

[1](#) Orana Heights Public School - No Parking Zone Plan - TM 7305





DUBBO REGIONAL
COUNCIL

REPORT: Aquatic Leisure Centres Usage Policy

AUTHOR: Aquatic Leisure Centres Manager
REPORT DATE: 22 August 2019
TRIM REFERENCE: ID19/1186

EXECUTIVE SUMMARY

Management and staff of the Aquatic Leisure Centres require a policy to outline a level of hierarchy for access to the Aquatic Leisure Centres for all users. Further the policy will assist in determining facility allocations (including lane allocations) for all requested bookings, whilst protecting community access, and will assist with protecting the integrity of Council run programs such as Learn to Swim from private competition.

FINANCIAL IMPLICATIONS

There are no financial implications arising from this report.

POLICY IMPLICATIONS

The Aquatic Leisure Centres Usage policy complies with the *Dubbo Regional Council Strategic Plan* Liveability theme 5.5, "The community has the opportunity to participate in a diverse range of lifestyle, sporting and passive recreational pursuits".

RECOMMENDATION

1. That the report by Aquatic Leisure Centre Manager, dated 22 August 2019, be noted.
2. That the 'Aquatic Leisure Centres Usage Policy' be adopted and implemented for the 2019/2020 swimming season.
3. That a full review of this policy be undertaken at the end of the 2019/2020 season, with a further recommendation or report being presented for council.
4. That if anomalies become apparent during this season, that consultation with the Chief Executive Officer and the Director Liveability are undertaken to overcome unanticipated difficulties not covered in this Policy, prior to confirmation of facility use.

Beth Shea

Aquatic Leisure Centres Manager

BACKGROUND

Management and staff of the Dubbo Regional Council Aquatic Leisure Centres will manage many and varied requests for bookings and use of the Aquatic Leisure Centres. It is important that they have a policy that they can refer to and apply when considering the requests, many of which will overlap other requests, and some of which may have the potential to negatively impact on community access and Council run programs.

REPORT

With the increasing demand for facility access and the new business initiative which aims to increase demand at all Aquatic Leisure Centres, Aquatic Leisure Centre staff require a policy to underpin facility usage decision making. In general decisions are required to be made with regard to the following key areas:

- Day to day decisions based on patronage and weather (i.e. extremely hot) and whether the available lane space is sufficient to meet demand.
- Start of season decisions regarding ongoing allocations through-out the season including managing varied requests for pool space, lane space, facility access, service provision and recreational access, many overlapping or requesting similar times and space requirements.
- During season, when additional requests occur and must be considered against current locked in bookings or available lane space.

In the past, decisions have been made on experience, prior knowledge, former history and generally the staff have made excellent decisions. However, staff have also on occasion been the target of comment or accusation regarding decision making. With Dubbo Regional Council now assuming full control of all Aquatic Leisure Centres it is critical that we have a formal policy, or a set of clear guidelines regarding facility usage, to assist staff with decision making.

Based on a premise that the Aquatic Leisure Centres are primarily community recreational facilities, this proposed policy aims to provide simple yet clear guidelines for determining future usage allocations. This policy is not designed to replace other policies or requirements like terms and conditions of entry, or facility hire - which detail behaviour expectations and legal requirements for facility usage - but to provide a simple hierarchy of usage to assist and guide staff with decision making.

This policy will ensure:

- Potential for conflict of interest is removed and that staff making allocation decisions are protected from any accusations of bias or favouritism. In a small community there are many council staff who have close ties with regular user groups.
- 'Water space' is available at all times for the community and particularly in peak times, and/or during very hot weather. The policy will articulate a 'minimum' amount of space

to be retained for public use at most times (except in the instance of special bookings that require a whole pool, e.g. carnival events).

- Staff who are required to make day by day decisions regarding the impact of weather and/or patron attendance, have a clear set of guidelines on which to base their decisions to avoid potential conflict and to ensure the safety of all concerned.
- When undertaking facility or lane allocation, staff have a 'hierarchy of access' to base their decision making on, thus ensuring a higher degree of consistency and accountability. There are already multiple conflicting requests for similar pool access or lane hire for this season, and a policy would also assist those wishing to hire the facility, a degree of understanding regarding how a decision is likely to be made.

Categories of Users:

In reference to the inclusions in the proposed policy please note the following explanations with respect to the 5 defined categories of facility 'users':

Category 1 – 'Community Use' will include the Learn to Swim and other aquatic based programs as they are considered essential community programs. It will also include community members entering the facilities for non-structured recreation.

Category 2 – 'Council approved, Swimming NSW Affiliated Swim Clubs' – refers to the two clubs currently utilising Dubbo facility and the one club at Wellington. These groups are considered the primary users of 'peak times' morning and evening and they are by far the most regular 'structure activities' users. Peak times are approx. 5.30am – 7.30am and 5.30pm – 7.30pm and depending on the time frames of council run programs they may be able to access other times (but not in preference to Category 1).

This number of 'approved' clubs is *unlikely* to increase in the future, especially given Swimming Australia's own 'One Pool, One Club' philosophy. This philosophy does not support active removal of clubs to attain this preference, but would preclude adding to the 'council approved' list in the future. This group is separate to other existing Swimming NSW 'affiliated' swim clubs who may wish to use the 50 metre pool for competition training or specific skill development and they don't have access to their own 50 metre pool, i.e. RSL swimming club, who would be included in Category 3.

Category 3 – All other community groups, (including sporting groups) who wish to access the facility and secure a specific 'part of the facility' on a permanent or 'repetitive' basis. This will include water polo or triathlon with a single weekly booking, and other segments of the community with specific purposes for access i.e. schools – sport, PE, Carnivals, or community groups furthering health and well-being for disadvantaged community groups.

Category 4 – Private Coaches and/or private bookings – this group represents all other private entities that in some instances could be regarded as being in direct competition to our own business. Acceptance of these bookings would be made with regard to potential financial impact on our own business. For example – allowing a private coach to bring a group of athletes in for short term access at time when the lane space is available may present a positive financial outcome for the facility. However, providing space for a Learn to Swim

teacher who is potentially taking clients away from the facility, would be the same as allowing a coffee van into the facility for special events. Both have the potential to negatively impact on our business by taking away patronage for services we can now supply.

Category 5 – Special Events – essentially any other booking that doesn't fit into the above categories, but has the potential to generate positive interest in Council, the Aquatic Leisure Centres, Dubbo region as a tourist destination etc. Some of these bookings may require utilisation of large sections of the facility and these requests will be made in conjunction with line management (i.e. Director Liveability).

General Principles for allocation and decision making.

Please consider the following supporting notes that refer to the reasoning regarding the general principles (or guidelines) that underpin this policy when applying the hierarchy of access.

1. A written agreement for all bookings is an essential business tool. We hope in the near future to review the existing agreement to install an 'ongoing' agreement with regular users where the main document remains active for ongoing seasons, and only a seasonal schedule changes which reflects any seasonal changes that occur, i.e. fees and charges, lane access or times/dates of access.
2. Review of policies and allocations remains an essential part of ensuring continuous improvement and it would include ensuring all stakeholders are consulted as part of the review.
3. Intended to assist the staff member who on a day-by-day basis may be required to make a decision without the assistance of the Aquatic Leisure Centre Manager, or the Facility Co-ordinator. Senior staff members would be expected to make this decision and will receive training with respect to the procedure for making and enacting these decisions. This will include justification of decisions and ensuring a record of the decision is kept; and referred to management.
4. Regular groups of swimmers can sometimes have the appearance of being 'organised' or structured. Sometimes they are confused as 'club' swimmers, sometimes they can be exclusive and aggressive with respect to lane etiquette and appear to 'exclude' other lap swimmers with their 'demeanour'. Alternatively an increasing number of 'health and well-being' companies or personal trainers are including swimming as part of their activities.

This guideline provides support for staff to approach these groups as a part of the overall management of the facilities with the objective of obtaining the best outcome for all users. This guideline is backed up by the terms and conditions of entry.

Hierarchy of Access

The hierarchy of access defines the user categories and provides a more detailed priority order for user allocation. In many instances groups will require access at different times of the day – i.e. schools will only ever request time during the school day, whilst clubs are outside school hours.

I would recommend a full review of this hierarchy at the end of the 2019/2020 season, and ask that if anomalies become apparent during this season that consultation with the Director Liveability and the CEO are undertaken to overcome unanticipated difficulties not covered in this policy and to ensure a speedy resolution is available.

SUMMARY

The proposed policy will depersonalise decision making regarding seasonal allocations and day to day 'reallocation', and will provide a solid platform for future review and/or community debate.

Appendices:

[1](#) Council Policy - Aquatic Leisure Centres Usage Policy



DUBBO
REGIONAL
COUNCIL

COUNCIL POLICY

Aquatic Leisure Centres – Usage Policy

Date 22 August 2019

Council Resolution Date

Clause Number

Responsible Position Manager Recreation and Open Space

Branch Recreation and Open Space

Division Liveability

Version 1

TRIM Reference Number

Review Period Annually

Review Date May 2020

Consultation

Document Revision History	
Description	Date
Version 1	22 August 2019
Notes	

POLICY

PURPOSE

The objective of this policy is to determine a set level of hierarchy of access to the Dubbo Regional Council Aquatic Leisure Centres for all users, and to protect the integrity of the 'aquatic industry business' that is being conducted by Dubbo Regional Council at their Aquatic Leisure Centres.

BACKGROUND AND RELATED LEGISLATION

The Aquatic Leisure Centres were developed primarily as community recreational facilities.

Pool space must be available for community recreational use, which includes learn to swim classes, and will take precedence over all other groups seeking access to the pool. This will include ensuring lanes are kept available for community use during peak demand times in the mornings and evenings, and during extreme hot weather events.

This policy is applicable to all users of the Aquatic Leisure Centres.

SCOPE

This policy applies to the Dubbo Aquatic Leisure Centre, the Wellington Aquatic Leisure Centre and the Geurie Pool.

1. Aquatic Leisure Centres User Categories

- 1.1. Category 1 - Community Use - including Learn To Swim classes;
- 1.2. Category 2 - Swim Clubs - must be Council Approved and affiliated with Swimming NSW and are currently
 - 1.2.1. Dubbo Aquatic Leisure Centre
 - Dubbo City Swimtech Swimming Club
 - Orana Aquatic Swimming Club
 - 1.2.2. Wellington Aquatic Leisure Centre
 - Wellington Amateur Swimming Club;
- 1.3. Category 3 - Other Community/Sporting Groups - including schools and special needs or disadvantaged community groups requiring an 'ongoing or locked in' booking;
- 1.4. Category 4 - Private Coaches and/or private bookings - for 'one off' or short term access
- 1.5. Category 5 - Special Events - including any other booking that doesn't fit into the above categories, this will include 'birthday parties', training or conferences, community fund raising events etc.

2. General Principles or Guidelines for Facility Use Allocation

- 2.1. All groups seeking to utilise the Aquatic Centre will be required to sign a written agreement and operate in accordance with Council's Aquatic Leisure Centres User Agreement.
- 2.2. The overall lane allocations provided in this policy will be reviewed after the first season in use and then at least every two years to ensure they reflect the ongoing demand and utilisation at the Aquatic Leisure Centres, in accordance with strategic direction.
- 2.3. Council staff may reduce lane allocations to any Category 2, 3 or 4 group in favour of community users at the discretion of the Aquatic Leisure Centre Manager or designated staff member in charge of the individual facility at the time. Such a decision is to be made on the basis of meeting the needs of the greatest number of users of the Centre, and prevailing circumstances could include, but not be limited to:
 - 2.3.1. days of extreme hot weather where there is extensive use of facilities by the general community in the afternoons and additional public lanes should be provided for the community rather than for organised swimming activities.
 - 2.3.2. days where the number of swimmers in attendance with an organised group is low and there is a large demand for community swimming, and a reallocation of lanes will result in a more even and safer allocation of lanes amongst all swimmers
 - 2.3.3. Such changes will be discussed with the user groups involved, and as much notice provided of these changes as possible.
- 2.4. Groups of swimmers who give the appearance of 'regular' and planned attendance (even if as a social group) will be encouraged to seek lane access as a Category 3 group to ensure they can secure dedicated lane space without impacting upon, or competing with, general Aquatic Centre users for lane access.
- 2.5. To maintain the business integrity of the Council run Learn to Swim programs, private coaching will only be allowed to book pool space, if the swimmers are ranked at a level above any program level provided by Dubbo Regional Council – for example, private Learn to Swim programs or sub 'club entry level' programs cannot be privately run at any facility owned by Council.

3. Hierarchy of Access

Priority order for access to pool space is:

3.1. Category 1

- 3.1.1. Community members – recreational swimming, leisure, non-structured exercise. A minimum of 3 lanes to remain available at peak times and 4 lanes available at non peak times (at Dubbo and Wellington)
- 3.1.2. Dubbo Regional Council run programs including
 - Learn to Swim

- Transition (or mini squad) programs
- Aqua Aerobics
- Any other program as developed by facility staff and approved by Dubbo Regional Council

3.2. Category 2

- 3.2.1. Swim clubs registered with Swimming NSW and approved by council as the preferred swim clubs for that facility.

3.3. Category 3

- 3.3.1. Community user groups requiring access to water space to run programs that provide a significant community contribution for inclusive access for disadvantaged groups. This group includes schools requiring access for carnivals, learn to swim, sport or PE;
- 3.3.2. Non swimming club/informal swimming groups eg Triathlon Club, Waterpolo Club requiring a period of regular or repeating hire. Must have a nominated co-ordinator on a user pays basis through a lane hire fee.
- 3.3.3. Events sanctioned by Swimming NSW or other State or National Sporting bodies (Waterpolo etc.) for the purpose of conducting a Country, Regional or State or National Event

3.4. Category 4

- 3.4.1. Registered swim club - swimming out of other aquatic facilities in the region without a 50m pool, or with limited access to a 50m pool due to, for example reconstruction/repairs. Limited access available for the purpose of athlete competition development or refinement of specific skill sets.
- 3.4.2. 'One off' bookings for an individual or specific purpose group. This could include a Private Coach bringing a group to the facility. Recommended 'access' – no more than 4 lanes and no more than 4 times per year and subject to availability, never in peak times.

3.5. Category 5

- 3.5.1. All other events not covered above. Note that some other events may in fact take precedence over other categories, however approval for these events would be at Director and CEO management level if they have the potential to significantly disrupt existing or standing bookings.

RESPONSIBILITIES

Responsibility for enacting this Policy will lie with the Aquatic Leisure Centres Manager.



DUBBO REGIONAL
COUNCIL

REPORT: Dubbo Regional Recreation Strategy 2030

AUTHOR: Manager Recreation and Open Space
REPORT DATE: 21 August 2019
TRIM REFERENCE: ID19/1183

EXECUTIVE SUMMARY

The Recreation Strategy 2030 sets out the vision and guiding principles for delivery of open space outcomes for recreation over the next 10 years. The strategy was prepared in consultation with the NSW Office of Sport, the Dubbo and Wellington Sports Councils and community feedback.

The aim is to be practical and equitable in the delivery of sport across the region. It divides actions and outcomes into short (1-3 years), medium (3-6 years) and long (6-10) year deliverables. This includes actions for planning, continued support, maintenance and usage audits.

The strategy is divided into four (4) Action Plans that will deliver on:

- Structured sports – sports played in clubs, such as Rugby, Netball and Cricket.
- Activated Open Space - Improvements to liveability through passive recreational activities such as dog walking, cycling and leisure activities.
- Indoor and Aquatic Facilities – Identifying opportunities to provide increased diversity in recreational offerings to our communities.
- Partnerships and Programs – identifying opportunities and means to increase our abilities to partner with community and government agencies.

It shall be recommended that the Recreation Strategy 2030 (**Appendix 1**) will go to public exhibition for 28 days with a following report to Council.

FINANCIAL IMPLICATIONS

The Recreation Strategy 2030 will assist in the delivery and prioritisation of capital works upgrades and maintenance of sporting facilities supporting transparency and equity in use of public funds.

The Recreation Strategy 2030 will also assist Dubbo Regional Council in the preparation of future grant funding applications to reduce the financial burden on the ratepayers of Dubbo.

POLICY IMPLICATIONS

The Recreation Strategy 2030 supports Dubbo Regional Council Community Strategic Plan 2040 principles:

Theme 5:

Liveability

5.5 The community has the opportunity to participate in a diverse range of lifestyle, sporting and passive recreational pursuits.

Strategy:

5.5.1 Access to recreation and cultural facilities for young people are improved.

5.5.2 Quality passive and active open space is located to maximise access and use by the community.

5.5.3 Unique recreational facilities and opportunity are available.

5.5.4 Our sporting facilities are recognised as catering for a wide range of local, regional and state sporting events and opportunity.

RECOMMENDATION

1. That the report by the Manager Recreation and Open Space, dated 20 August 2019, be noted.
2. That the Dubbo Regional Council Recreation Strategy be approved to go on public exhibition for 28 days, with a further report to Council following feedback from the community and any required amendments.

Ian McAlister

Manager Recreation and Open Space

REPORT

The Dubbo Regional Council Planning Framework for delivery of open space outcomes is driven by the 2040 Community Strategic Plan. Both the Open Space Masterplan 2018 and Recreation Strategy 2030 form connected planning documents to ensure that strategic directions and action plans are consistent with Council and community objectives.

The guiding principles of the Recreation Strategy (**Appendix 1**) are supported by evidence that participation in physical exercise benefits the community through improved health. These benefits can be measured in financial and socially favourable terms.

The aim of the Recreation Strategy 2030 is to be practical and equitable in the delivery of sport and public open space across the region. To help ensure that the needs of the sporting community have been adequately addressed this Strategy has been developed through workshops with both the Dubbo and Wellington Sports Councils. Their feedback has been used to develop the Action Plans found on pages 19 – 48 of the Draft Recreation Strategy as attached as **Appendix 1**.

Importantly, and unlike earlier documents, this plan also addresses existing and future needs of recreational and sporting facilities within the villages of the local government area. Other important inclusions in the Recreation Strategy 2030 include discussions surrounding the Aquatic Leisure Centres and the identified needs of an Indoor Sporting Facility to cater for the needs of this sector of our community.

A further improvement to the Recreation Strategy is that it divides the actions and outcomes into short-term (1-3 years), medium-term (3-6 years) and long-term (6-10) year deliverables. This includes actions for planning, continued support, maintenance and usage audits.


To assist in the delivery of the Recreation Strategy 2030, four (4) Action Plans have been developed that clearly identifies Objectives and Actions that will deliver on:

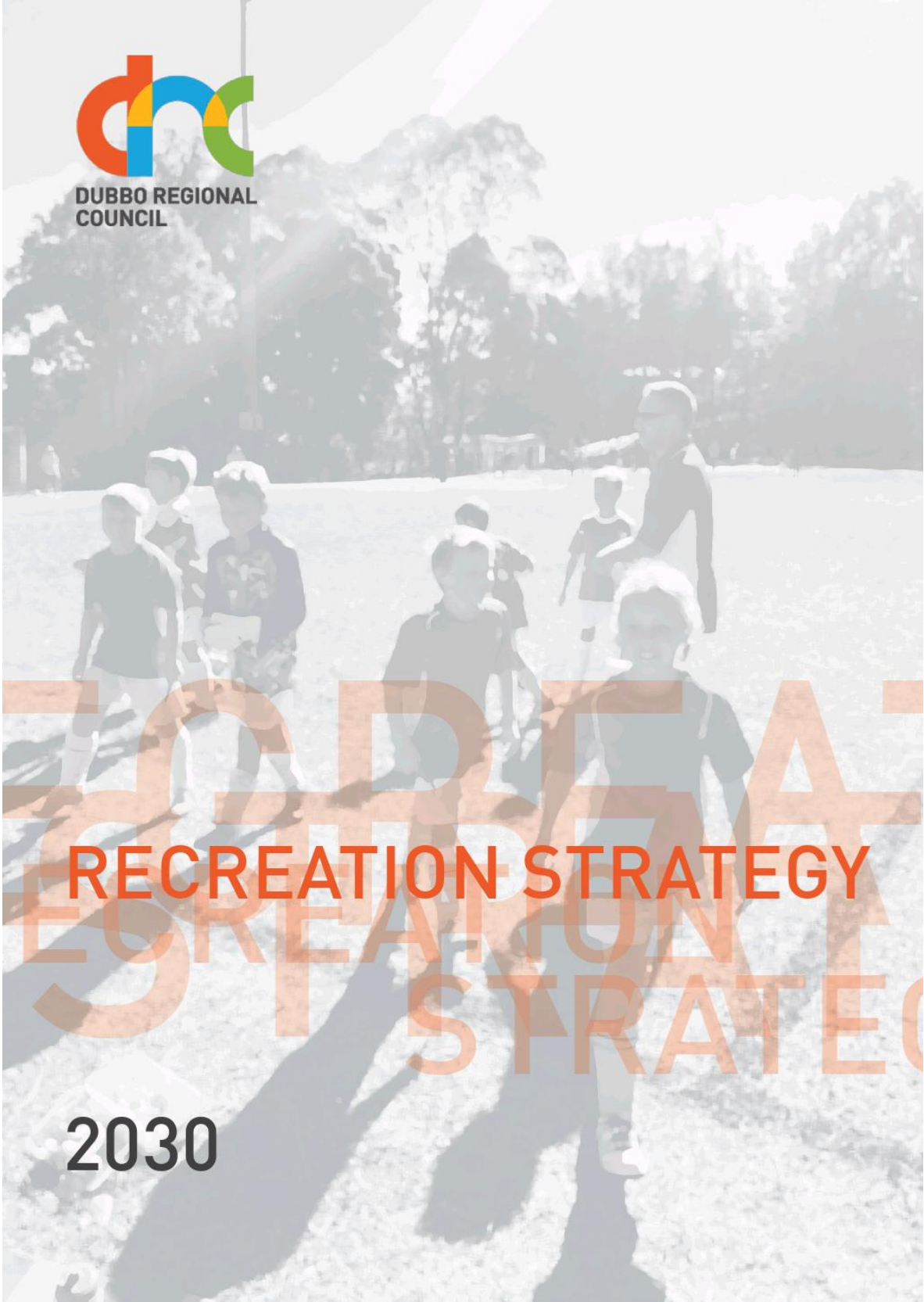
- Structured sports – sports played in clubs, such as Rugby, Netball and Cricket.
- Activated Open Space - Improvements to liveability through passive recreational activities such as dog walking, cycling and leisure activities.
- Indoor and Aquatic Facilities – Identifying opportunities to provide increased diversity in recreational offerings to our communities.
- Partnerships and Programs – identifying opportunities and means to increase our abilities to partner with community and government agencies.

The draft Recreation Strategy 2030 has been developed through a consultative process with the Dubbo and Wellington Sports Councils, as well as drawing other sectors of the community and the experience of staff. The draft Recreation Strategy clearly identifies objectives and actions to help Council deliver the strategy over the next 10 years.

It is recommended that the draft Recreation Strategy 2030 be placed on public exhibition for 28 days to seek feedback from our communities. Following the public exhibition of the Recreation Strategy 2030 a further report will be submitted to Council seeking final adoption.

Appendices:

[1](#)  Draft Recreation Strategy 2030



CEO'S MESSAGE



We have a proud history of being welcoming yet formidable sports people.

Sport and physical recreation is essential to our local area and it is the cornerstone of improved health and well being. Sport gives us a great sense of belonging to our community through the social connections it brings.

This strategy recognises the importance of accessible, diverse, safe and appealing open space networks for the many diverse cultural groups, ages and abilities in the cities and towns that make up Dubbo Regional Council.

Opportunities for the future are detailed through the Action Plans to improve both structured sports and informal recreation to activate our cities and neighbouring towns. The actions were prepared in consultation with community and key stakeholders.

We provide a framework to work together into the future. Through this strategy we aim to partner with sporting agencies and associations over the next 10 years. This is our plan to deliver better sport and green infrastructure.

This strategy aims to build participation and strengthen our networks to ensure that our community enjoys vibrant, healthy and dynamic lifestyles.

Michael McMahon
Chief Executive Officer





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About the Strategy

The aim of this strategy is to set out how we will improve recreational opportunities over the next 10 years.



This strategy guides future planning and delivery of recreation to ensure that our community has access healthy and vibrant lifestyles in DRC.

Sport and recreation enhances the lives of the community. The benefits of active and passive recreation in delivery of social, physical, economic and community well being is widely documented.

Our region is fortunate to have a unique population of younger families and is a region that is growing. To increase opportunities for all includes developing the life long enjoyment of sport and in being an active member of the community.

Additionally our region also has the benefit of broad landscapes and scenic river corridors that lend themselves to offering nature-based recreation experiences.

This strategy addresses the benefits of recreation in terms of improvements to health and wellbeing of the individual and for the community.

This strategy sets our vision and guiding principles. So we are future focused, practical and equitable in delivering great spaces for structured sport and leisure. The Action Plans list these goals point by point and include planning outcomes as well as specific support, maintenance and capital works improvements. The goals are set over a 10 year timeframe.

Recreation at Dubbo Regional Council

About our region

Our region is strategically important. Dubbo and Wellington provide the economic growth centres where access to public government departments and facilities support neighbouring towns and villages. The use of Council facilities for major events is supported by planning at local and state levels.

Our region consists of two major urban areas, Dubbo and Wellington and the surrounding interdependent villages of Ballimore, Brocklehurst, Wongarbon, Eumungerie, Mogriguy, Elong Elong, Stuart Town, Mumbil, Geurie, Euchareena and (North) Yeoval.

It is anticipated that Dubbo and Wellington will continue to grow.

The current population of DRC is around 51,398 and the forecast is for growth to around 64,487 by 2041.¹

The median age of our area is 35 years, which is slightly younger than the NSW average of 38 years. The focus of this strategy is to support development of sports and continuation of participation through teenage years into adulthood and senior years.

Consultation undertaken with our community and stakeholder groups report offering inclusive, anti discriminatory and thoughtful ways to improve participation.

Many clubs advocate great outcomes for our community including support for mental health, encouraging indigenous and female participation.

Trends in recreation demand align with demographics and differ dependent on age grouping. For instance, extreme sports are increasing in younger groups and youth.

Passive recreation such as walking has increased in demand across all age groups.

Consultation with stakeholders identified that lighting for structured sports as well as to allow walking activities is

desirable. This strategy addresses consistency, equity and prioritisation in delivering better networks over time.

Key challenges

Current challenges in providing sports infrastructure include:

- 🔥 Facilities age and require maintenance.
- 🔥 Inefficient provision and duplication across the former Wellington and Dubbo local government areas.
- 🔥 Managing community and sporting association expectations.

Aiming for equitable provision of good quality sports fields and connected open space is an objective of this strategy.

Sports Council Feedback

DRC has a strong working relationship with sports associations in the region. Action Plans and outcomes were identified with consultation from sporting and community groups.

Prioritisation of sport and recreation funding is facilitated through this collaborative approach.

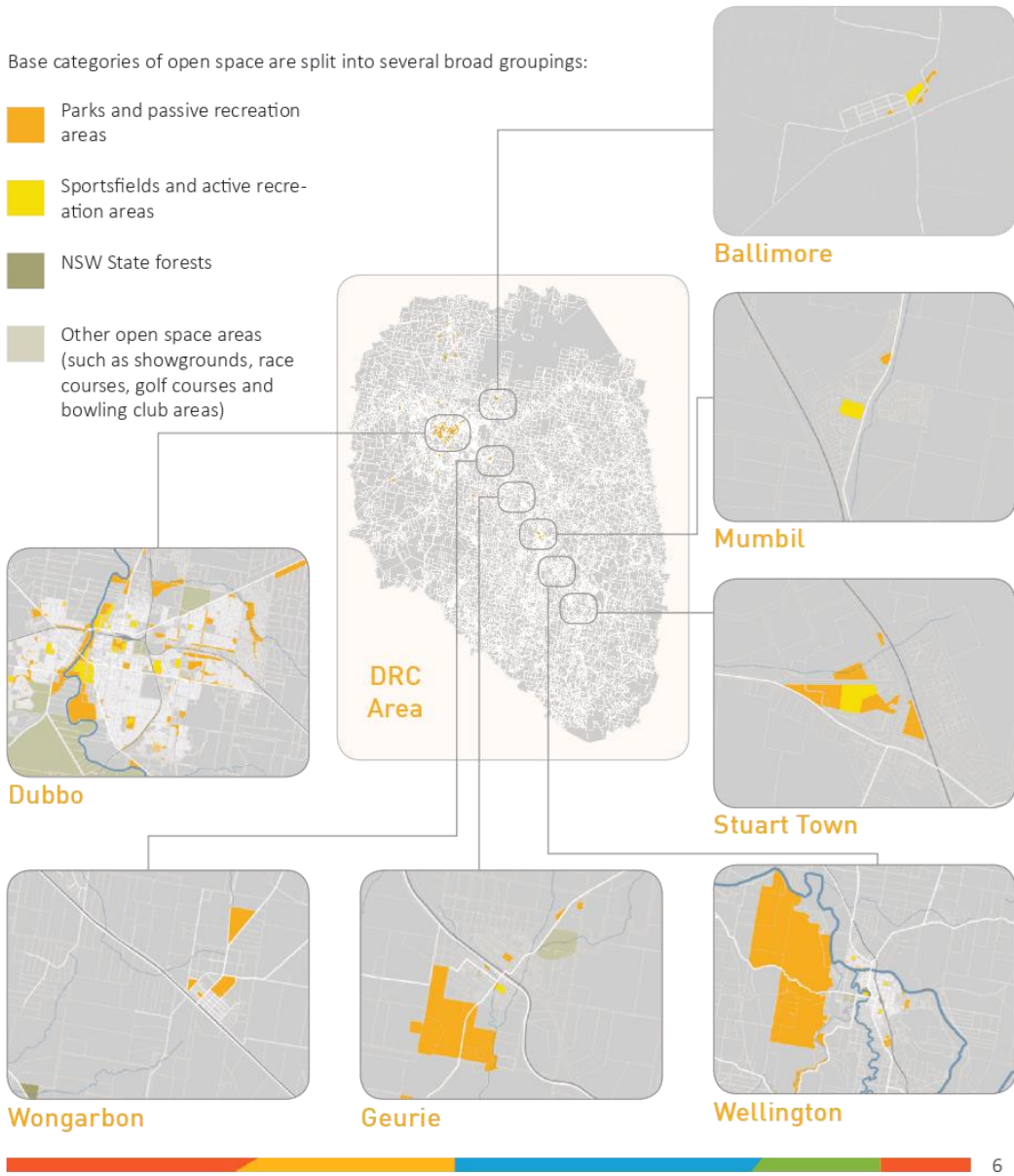
Collaboration with community relies on decision making tools to assist us in the determination of priorities.

Determining funding for upgrading sports facilities across the LGA requires a method of delivering equity across groups of users. As a government entity, we promote transparency and fairness in our decision making.

Tools such as a desired standard of service assist in this process. A standard of service is a matrix to assist classification of sports grounds with their performance requirement as a hierarchy. This assesses the provision of standard of quality required for amateur to elite levels, from local to regional, planning and design criteria, and expectations of developers and partner agencies.

Parks and Reserves Overview

The region is split into Dubbo, Wellington and smaller villages. The map below illustrates the general location of areas with reserves and sports fields.



Benefits of Recreation

The Australian Government estimate that for every \$1 spent on sport and recreation returns \$7 benefit to the community.

Healthy communities

Physical activity is key to a healthy lifestyle. Whether this is through active participation in sports or unstructured use it is vital that public sports grounds, playgrounds, fitness equipment and open space is safe and available for use.²

Physical activity is important for every member of the community for health, social interaction and well being. Estimates suggest that physical inactivity contributes to the death of 16,000 Australians every year. This is 14 times the national road toll.³

Unstructured recreation is as important as active sports because humans require daily activity to remain healthy.

Changes in length of time in work related activities as well as less physical occupations mean that quality public

open space for recreation is vital.

Quality open space relates to its design, continued maintenance, openness, equipment an accessibility. The quality of space for recreation delivered by us has a direct relation to quality of life.

Financial estimate for the benefit of sport

Data regarding income through sports related businesses across Australia, estimates sport related businesses bring **\$83 billion** in combined health, education and economic benefits each year.⁴

Conversely the cost of not supporting active and healthy communities is expected to cost over **\$87.7 billion** in additional health and social costs over 10 years to 2025⁵. Other sources of economic value including, improved labour productivity due to healthier workforces or economic benefit that volunteers contribute⁶.





Trends in Sport and Recreation

Current trends indicate that Australians are becoming more aware of the importance of sport for health and well being.⁷

The top 20 sports across Australia (past 3 years)

1. Walking (Recreational)
2. Fitness/Gym
3. Swimming
4. Running/Athletics
5. Cycling
6. Football
7. Tennis
8. Bush walking
9. Basketball
10. Golf
11. Yoga
12. Australian Football
13. Netball
14. Cricket
15. Dancing (recreational)
16. Pilates
17. Surfing
18. Gymnastics
19. Touch football
20. Martial arts

Current trends in participation

- 👉 Walking, running, cycling and bush walking whilst having the highest participation rates are generally not organised activities. Bush walking and running are also considered to have the greatest gender equity.
- 👉 Activities with the largest percentages of women participating are Pilates, Netball, Dancing and Yoga.
- 👉 Activities with the largest percentage of men participating are Cricket, Australian Football and Golf.
- 👉 Australian Football has recently surged in participation by women. The number of women participating twice a week has jumped 154% from 19,005 in 2017

to 48,225 in 2018.

- 👉 The interest in traditionally male sports transitioning to greater female participation has also been of interest to other structures sports, e.g. Cricket.
- 👉 Football is overall the largest team sport in terms of numbers participating.
- 👉 Adult participation in regional areas is higher for Touch Football, Tennis, Australian Football, Cricket, Netball, Basketball and Walking.
- 👉 Indigenous communities have higher rates of participation in Basketball, Touch Football, Netball, Cricket, Martial Arts and Australian Football.
- 👉 The greater percentage of participation for adults with disabilities is for walking and martial arts.
- 👉 Cycling is considered to have two peak age groups for organised participation: the first age group is 9-11 then 45-54.

Opportunities for active sports

There have been several studies that identify the positive relationship between provision of sports facilities and the increase in participation.⁸

We have an opportunity to set out a standard of service for the short, medium and long term maintenance and upgrade of facilities.⁹

This will ensure that sports associations are able to promote greater participation, support high performance teams and facilitate change. Facilitating change can include opportunities to offer sports to a wider and more diverse group or promote partnerships. This aids our ability to offer differing services and programs within sport.

Promoting Equity Across the Region

Our parks and sports grounds are a mixture of local, district and regional facilities. This section explores what you might expect to find at each level. There are more variations between low, medium and top level fields,

and premium parkland areas will often have additional community benefits such as education, interpretation of historic sites or tourism.



LOCAL OR NEIGHBOURHOOD FACILITY

- Walking distance of most users or service
- Are small sites with basic level facilities. These sites may be used by local community and sporting clubs for game or provide local training and junior practice options
- Recreational open spaces in villages are generally at this level

DISTRICT FACILITY

- Good standard of quality that may be used by local townships and groups of local communities.
- Facilities may be a focus for an association competition and can be central venues that facilitate regular competition

REGIONAL OR STATE FACILITY

- Best standard of quality, amenity, service and management offers economic benefits of multisport facilities.
- Best capacity for large events and elite level athletes and competitions
- Caters to a large catchment wider than drc for some events.

Local or Neighbourhood Parks and Sports

Local parks and sports fields are the first level and common small parks at the end of suburban streets.

At a minimum you may expect to find:



District Level Parklands and Sportsgrounds

This example shows a district park with medium level facilities.

At mid level facilities you would expect to find a mixture of assets:



Regional or State Parklands and Sportsgrounds

This example shows a premium facility which may attract large events.

You would expect to find premium quality assets:



The Supporting Framework

The DRC Planning Framework

This strategy is aligned with council planning for open space and recreation. This document presents connected planning for both open space and recreation in our region.

2040 Community Strategic Plan Theme 5: Liveability

The 2040 Community Strategic Plan forms the central component of integrated planning and reporting for our region. The direction of this strategy is based on the overarching principles defined under Theme 5: Liveability in the plan.

In particular section 5.5 - The community has the opportunity to participate in a diverse range of lifestyle, sporting and passive recreation pursuits.

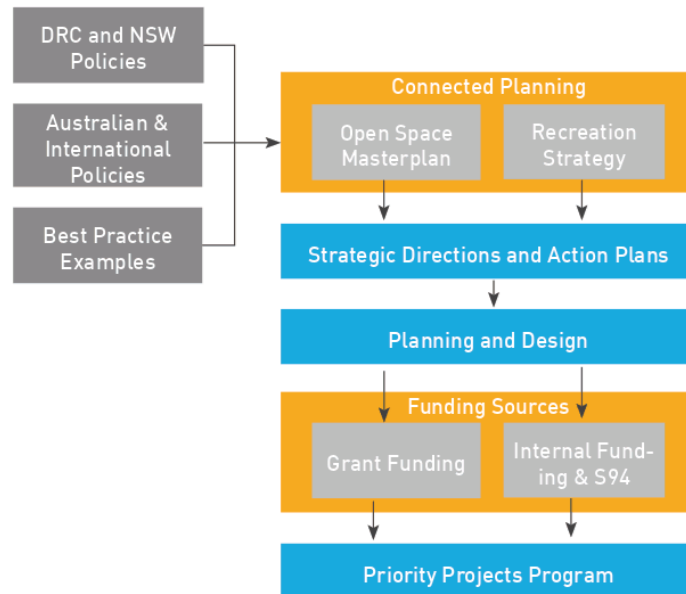
The action plans within this strategy deliver on:

- 5.5.1 Access to recreation and cultural facilities for young people is improved
- 5.5.2 Quality passive and active open space is located to maximise access and use by the community
- 5.5.3 Unique recreational facilities and opportunity are available
- 5.5.4 Our sporting facilities are recognised as catering for a wide range of local, regional and state sporting events and opportunity

Other Recreation and Open Space Planning Documents

This strategy supports and builds on key gaps identified in the **Open Space Masterplan 2018** to:

- 👉 develop a unified open space strategy for Wellington and Dubbo.
- 👉 plan for new urban release areas to join the network
- 👉 build networks of open space connections.
- 👉 prioritise capital works programs for delivery.





The Supporting Framework

This strategy has been informed by best practice sources as well as governmental policies and advice. These include local, state, federal and international supporting policy and guidance.

Key commonwealth and NSW Government documents have been reviewed in this section to support this strategy and its framework.

The Action plans delivered in this Strategy will be delivered incrementally over the 10 year plan through a variety of funding sources, for example, annual works programs.

Commonwealth Strategic Initiatives

Sport 2030

Australian Government priorities for sport focus on building a more active population. The plan for Sport 2030 aims to produce sporting excellence across Australia and build a strong industry that is free from corruption.

The key priorities from the top down:

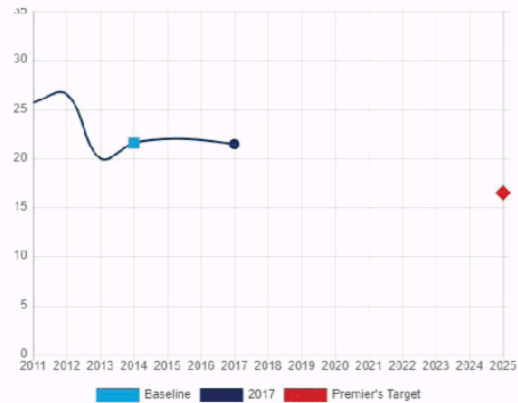
- 👉 Building a more active Australia
- 👉 Achieving sporting excellence
- 👉 Safeguarding the integrity of sport
- 👉 Strengthening Australia’s Sport Industry

NSW Government Planning Context

Sport and recreation planning documents that over-arch this DRC Recreation Strategy include directives from the Premier, NSW Departments and Agencies including the Office of Sport.

12 Premier’s Priorities

Reduction of childhood obesity is listed as a top priority of the Premier. The aim is to reduce obesity rates of children by five percentage points by 2025. Active Kids vouchers are an initiative of this priority to get more children into active sports.



Sources: NSW Population Health Survey (SAPHaRI), Centre for Epidemiology and Evidence, NSW Ministry of Health

The Supporting Framework

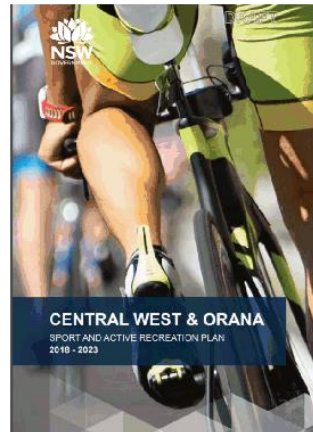
NSW Office of Sport



Sport NSW

The guiding principles within this document have been aligned with NSW future directions for sport.

This report aims to improve delivery of sport across the industry through collaboration, capacity, innovation and engagement with active recreation.⁸



The plan highlights the connection between development of Regional Sports Hubs, other regionally significant facilities and local facilities.

This Strategy reflects a common hierarchy of regional, district and local sports and open spaces.

Health Stats NSW 2002-2017

Data in our region indicate over 50% of adults are either overweight or obese. The rate for children was around 20%.

Health indicators for suicide were slightly higher than the NSW average at around 11 per 100,000 population.

Central West and Orana Sport and Active Recreation Draft Plan 2018 - 2023

The plan highlights the role of DRC in:

- 👉 Constructing, maintaining and managing sport and active recreation infrastructure and programs in local communities.
- 👉 Collaborating with the community to identify sporting infrastructure and program needs.
- 👉 Incorporating sport and active recreation into Community Strategic Plans.
- 👉 Contributing to the development of Regional Sport and Active Recreation Plans.
- 👉 Aligning service delivery with the Regional Sport and Active Recreation Plans

NSW Planning and Environment Central West and Orana Regional Plan Implementation Plan 2017-2019

Directions from the plan support recreation through:

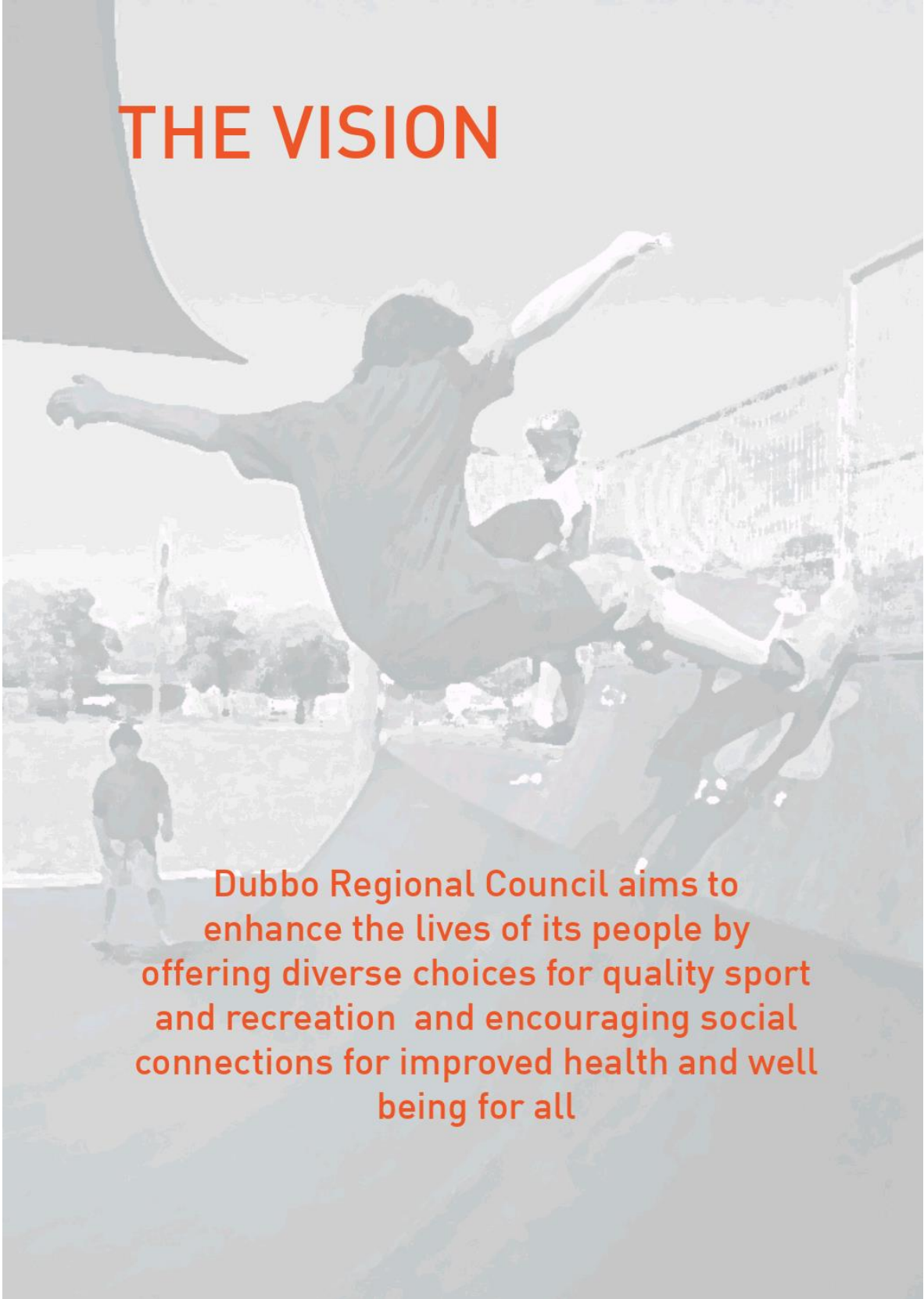
- 👉 Direction 13.5: Protection and management of environmental assets, including for recreation.
- 👉 Direction 14.3: Management and conservation of water resources for recreational fishing.
- 👉 Direction 29.2: Enhance the quality of neighbourhoods by integrating recreational walking and cycling networks.

Other Guiding Documents

Victorian and SA documents have also been reviewed in context of providing the best practice action plans. These strategic documents share a focus on the benefits of sport and recreation to our communities.

The focus of all strategic documents is aimed at facilitating Australian communities to become more active overall.

THE VISION



Dubbo Regional Council aims to enhance the lives of its people by offering diverse choices for quality sport and recreation and encouraging social connections for improved health and well being for all

Guiding Principles

We understand the value of sport and recreation in improving the health and social well being of our communities.

The purpose of the vision is to consider the needs of our community for now and in the future. The vision assists in delivering on the following guiding principles in the prioritisation of action plans.

Activation

Activation is the process of integrating public space with community by the layering of programs, activities and amenities.

The aim is to get an increased number of residents to participate in sport and active recreation.

This means that we must aim to:

- 👉 Offer broader and more inclusive opportunities for participation in sport, informal recreation and leisure activities.
- 👉 Plan an integrated system of open space with infrastructure that is flexible to address the demands and structure of community sport.

Quality offering

Quality recreation is planning for DRC to have facilities that are robust and flexible and allow for high-performance sport and events.

The Action Plans consider the physical attributes of a system that requires incremental upgrades, maintenance schedules and communication between user groups.

Future proofing

Well planned and connected investment will maximise participation and enhance the benefits of leading and active lifestyle. Action Plans provide consideration of current and future trends with the aim of providing sustainable, efficient and maintained infrastructure.

Future proofing recreation means thinking about the partners that DRC makes with associations, government agencies and private businesses to increase integration and active participation.

Inclusion

Increasing the number of people participating in sport and active recreation requires a collaborative system where all have the opportunity to be involved.

Some user groups have been identified as requiring additional support to improve participation.

To be broader and more inclusive, we need to continue to:

- 👉 support all abilities
- 👉 provide affordable options
- 👉 advocate equality and anti discrimination
- 👉 increase participation for women
- 👉 support indigenous access
- 👉 increase options for youth engagement



ACTION BUILDING ACTION PLANS ACTION PLANS

Action Plan 1: Structured Sports

OBJECTIVES

1. Deliver long term planning for the equitable spread of sports grounds across the LGA

ACTIONS

- 1.1 Planning for future needs of the community through analysis of current supply, future needs and gap analysis (in partnership with Office of Sport). Identification of key areas for activation within community. Prepare activation plan based on outcomes to define:
 - High use areas
 - Areas of low use and causes
 - Key activation zones
 - Key public space interface areas
- 1.2 Annual review of sports field utilisation to inform maintenance needs diversify opportunities and increase active participation.
- 1.3 Plan for spreading the use of fields across the LGA to increase efficiency, improve usage and capacity of current sports fields available. This will assist in optimising the usage of existing sport and recreation land available.

2. Provide quality playing surfaces and amenities

- 2.1 Liaise with sporting club management to prioritise short term plans for maintenance schedules (1-3 years) and medium to long term facility upgrades (3-10 years).
- 2.2 Deliver focused and prioritised improvements to sports facilities based on best practice maintenance based standards of service policy.
- 2.3 Design for flexible multi court surfaces between sports at selected locations.
- 2.4 Annually review usage of fields Seek improvements in efficient usage of ground through consolidation of improvements to existing recreation facilities prior to delivery of new assets.
- 2.5 Plan for medium to long term water, irrigation and storm water reuse for sports field maintenance.
- 2.6 Review and plan for progressive upgrade for lighting across priority regional, district and local sports fields. Plan existing and future demand using needs-based analysis.

Action Plan 1: Structured Sports

OBJECTIVES

3. Focused improvement for key facilities for sporting associations

ACTIONS

Deliver improvement to develop sport and increase participation:

- 3.1 AFL**
Review usage, facilities and priorities at South Dubbo Oval.
- 3.2 Athletics**
Continue to maintain Barden Park to standard. Review athletics specific infrastructure at Rygate Park.
- 3.3 Cricket**
Partner Cricket Associations in prioritisation of facilities maintenance and upgrades to grounds available.
- 3.4** Focused upgrades including synthetic Cricket pitches and nets to current standard.
- 3.5** Priorities Victoria No. 1 oval to state standard.
- 3.6 Cycling**
Assist transition from Victoria Park Oval 1 to Dubbo Cycle Facility.
Assess feasibility of cycling at other locations for mountain biking and to accommodate other biking and cycling disciplines.
- 3.7 Golf**
Support Wellington club in encouraging young membership.
- 3.8 Hockey**
Prioritise Pioneer park facilities.
- 3.9** Liaise with members to for event planning and incremental upgrades to maintain current standard surfaces.
- 3.10** Support delivery programs in Wellington and ties between clubs.
- 3.11 Netball**
Support Wellington Netball membership and program.
- 3.12** Facilitate planning to meet growing club needs.
- 3.13 Paddling**
Review medium and long term planning for Macquarie River to support accessibility, storage and amenities. Facilities may include shared storage between other water based sports and triathlon club.
- 3.14** Support Paddle Club to develop junior programs development and event attraction.

Action Plan 1: Structured Sports

OBJECTIVES

ACTIONS

3.15 Rugby League

Prioritise Apex Park facilities to maintain standard of a state level facility.

3.16 Deliver Kennard Master plan priority upgrades.

3.17 Plan for maintenance and upkeep of rugby playing surfaces.

3.18 Assist with negotiation between winter and summer sports

3.19 Rugby Union

Review junior and senior clubhouse separation and support possible medium to long term amalgamation.

3.20 Soccer - Football

Partner Dubbo & District Football Association in prioritisation of grounds, maintenance and upgrades and summer and winter sports field usage.

3.21 Provide support to childrens' programs.

3.22 Wellington irrigation renewal at Pioneer Park. Plan medium to long term upgrade of western field drop off.

3.23 Assist equitable management of high use fields with other sports and passive recreation concerns.

3.24 Ultimate Frisbee & Disc Golf:

Support continued maintenance to facilities.

3.25 Triathlon

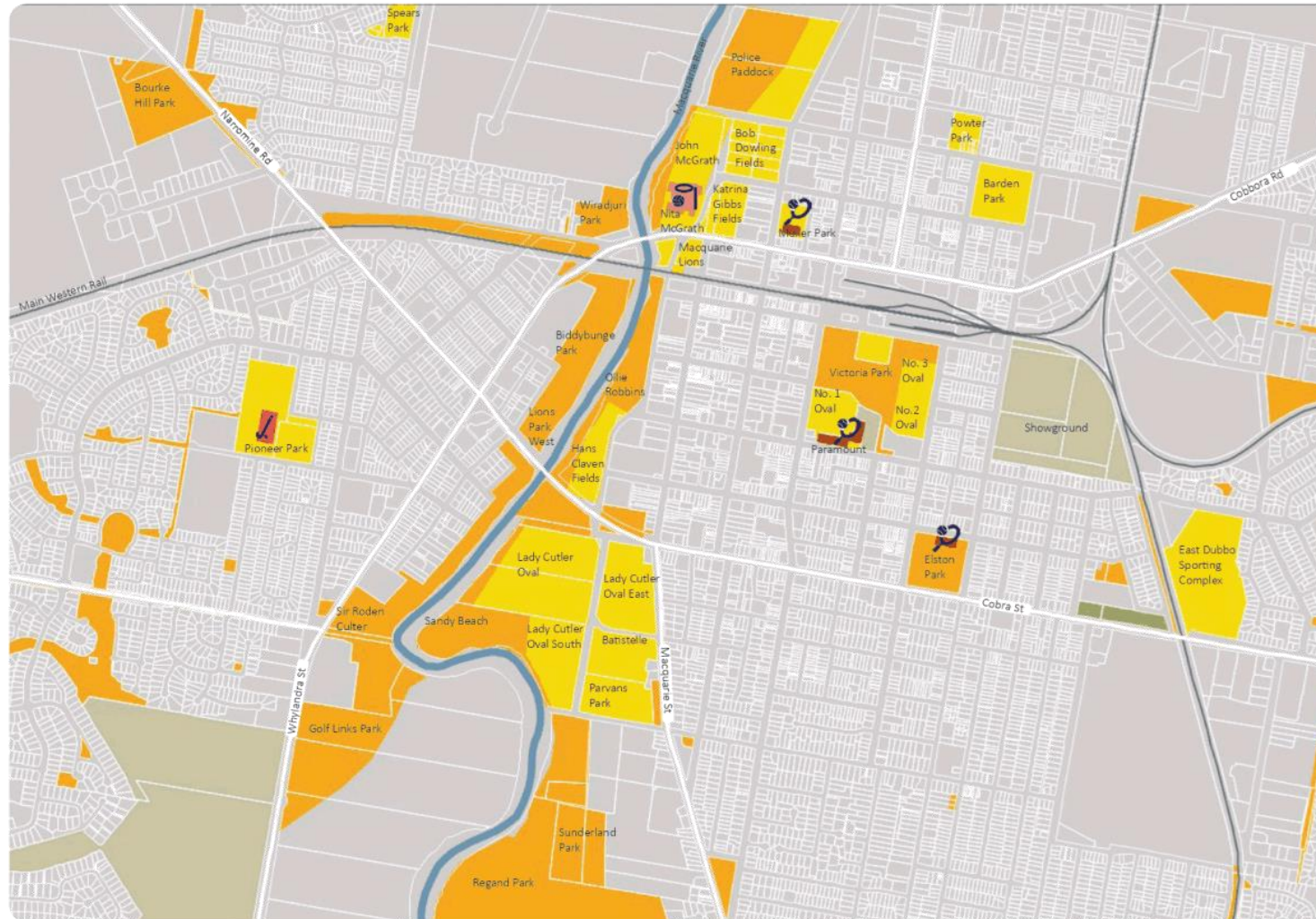
Provide assistance to facilitate events and negotiate competition.

3.26 Possible medium term planning for storage.

3.27 Touch Football

Provide maintenance to existing facilities. Consider embellishment and enhancement to facilities over long term through addition of lights at John McGrath field and increasing formalised parking. Prepare planning for future designs for Police Paddock.

3.28 Possible review of fields to consider increase to 30 fields over medium to long term to facilitate state and regional carnivals.



General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Hockey

- Hockey fields are located at Pioneer Park, West Dubbo

Netball

- Netball fields are located at Nita McGrath Fields

Tennis

- Tennis Courts are located at Paramount, Victoria Park, Elston Park, Muller Park (managed by State)

Cricket

- Field and practice nets at:
- Bob Dowling Oval
 - John McGrath Oval
 - Jubilee Oval
 - Lady Cutler Oval & South
 - Pioneer Park
 - South Dubbo Sporting Complex, Victoria Park No. 1, No. 2 & No. 3 Ovals

Structured Sports - Dubbo

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Football

Fields are available at:
Apex Oval (junior fields)
Hans Claven Oval
Lady Cutler Oval, East and South
Pioneer Park

Rugby League/Union

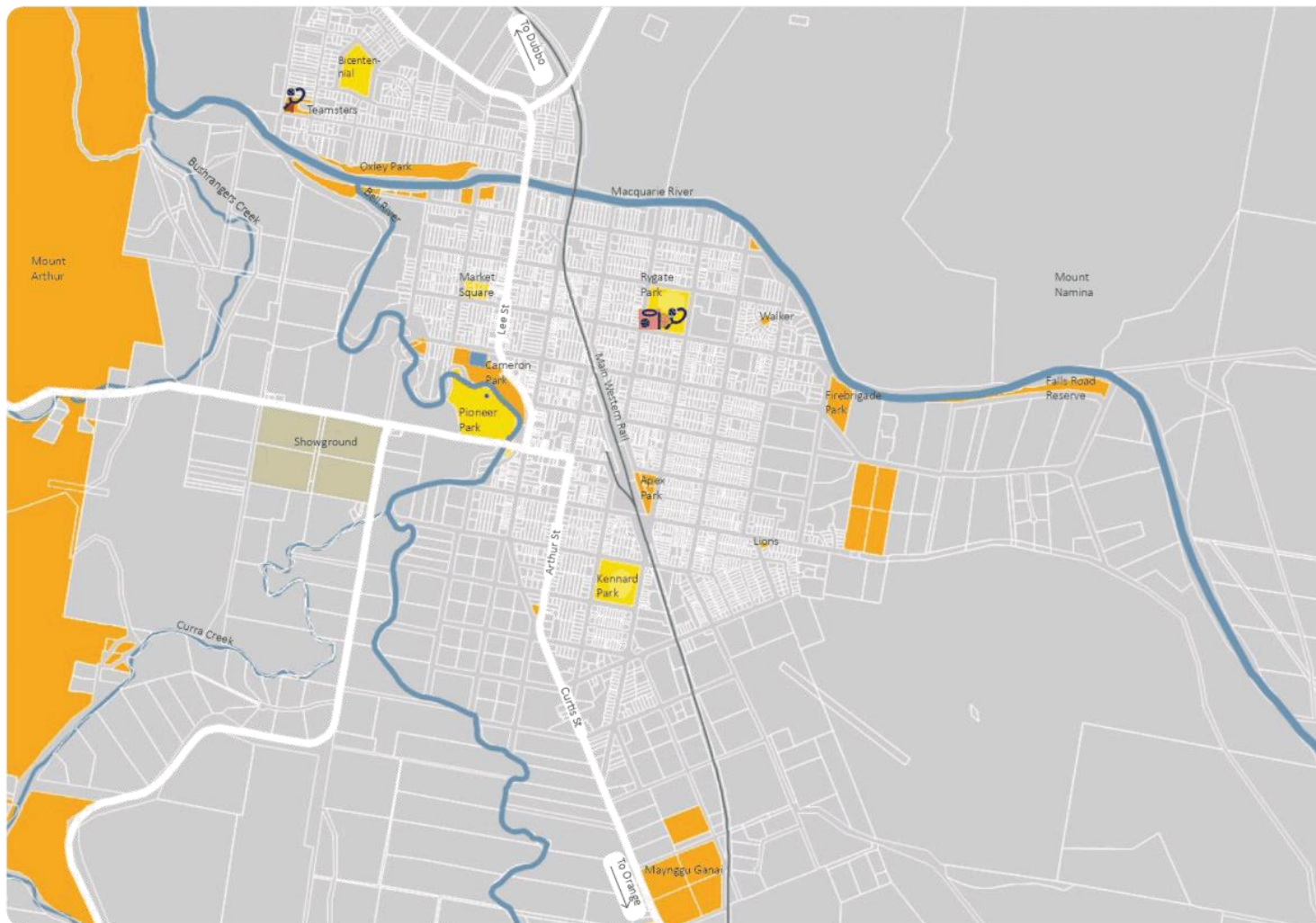
Individual sport and combined fields at:
Apex Oval & Juniors (league)
Jubilee Oval
Victoria Park No. 1 Oval
Victoria Park No.2 & No.3 Oval (union)

Touch Football

John McGrath Oval
Katrina Gibbs Oval
Australia Rules
South Dubbo Oval

Athletics

Barden Park is the premier site for athletics



General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Netball

- Netball fields are located at Rygate Park

Tennis

- Tennis Courts are located at Rygate Park and Teamsters Park

Cricket

- Pitches are located at:
Pioneer Park
Rygate Park

Athletics

- Rygate Park accommodated athletics

Football

- Fields are available at:
Pioneer Park

Touch Football

- Touch is played at Rygate Park

Structured Sports - Wellington

Rugby League/Union

Key parks for Rugby League and R. Union:
Kennard Park
Bicentennial Park (union)

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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Tennis

- Tennis Courts are located at Ballimore Park

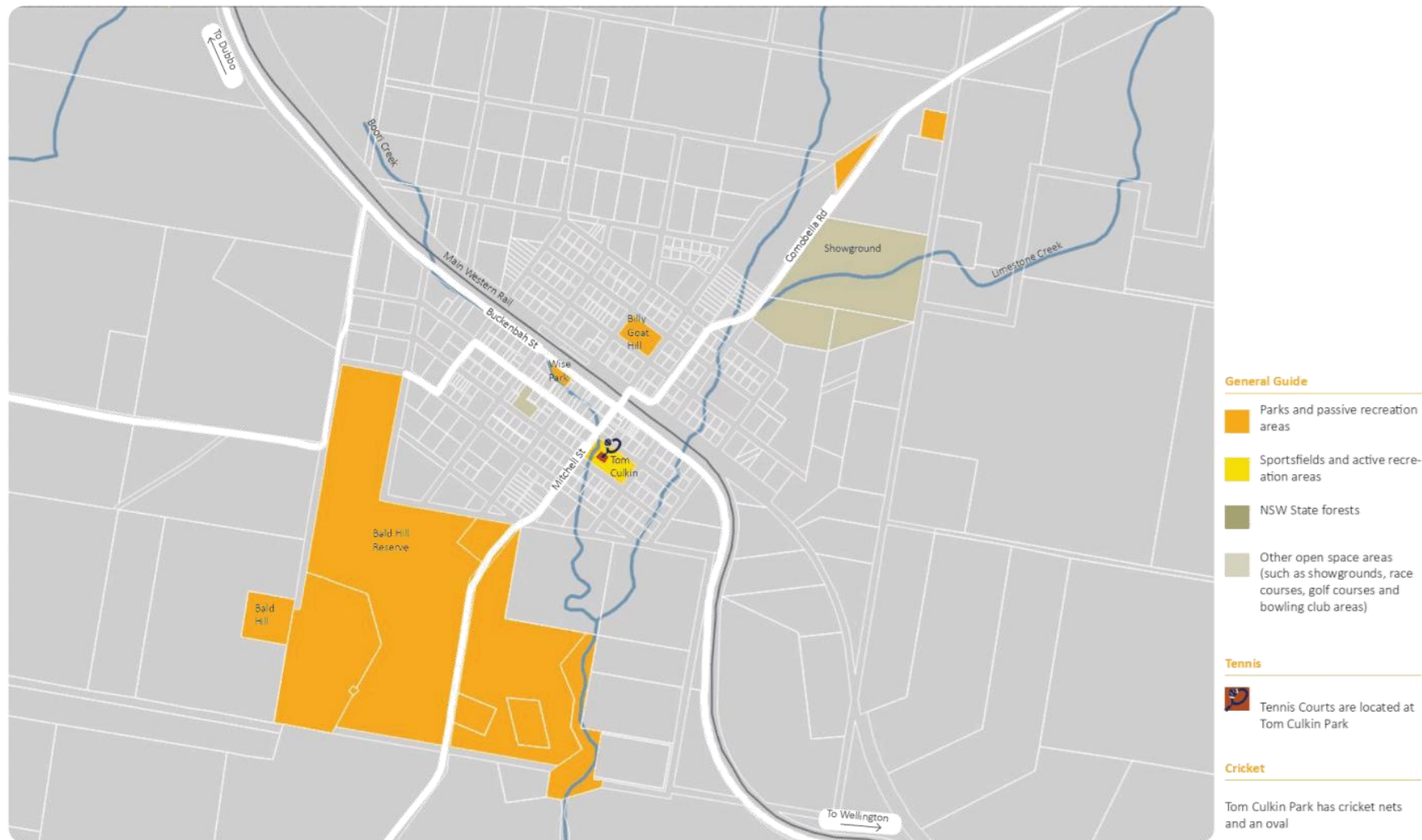
Cricket & Football

Local Summer and Winter sports are held at Ballimore Park Oval as run by the local village.

Structured Sports - Ballimore

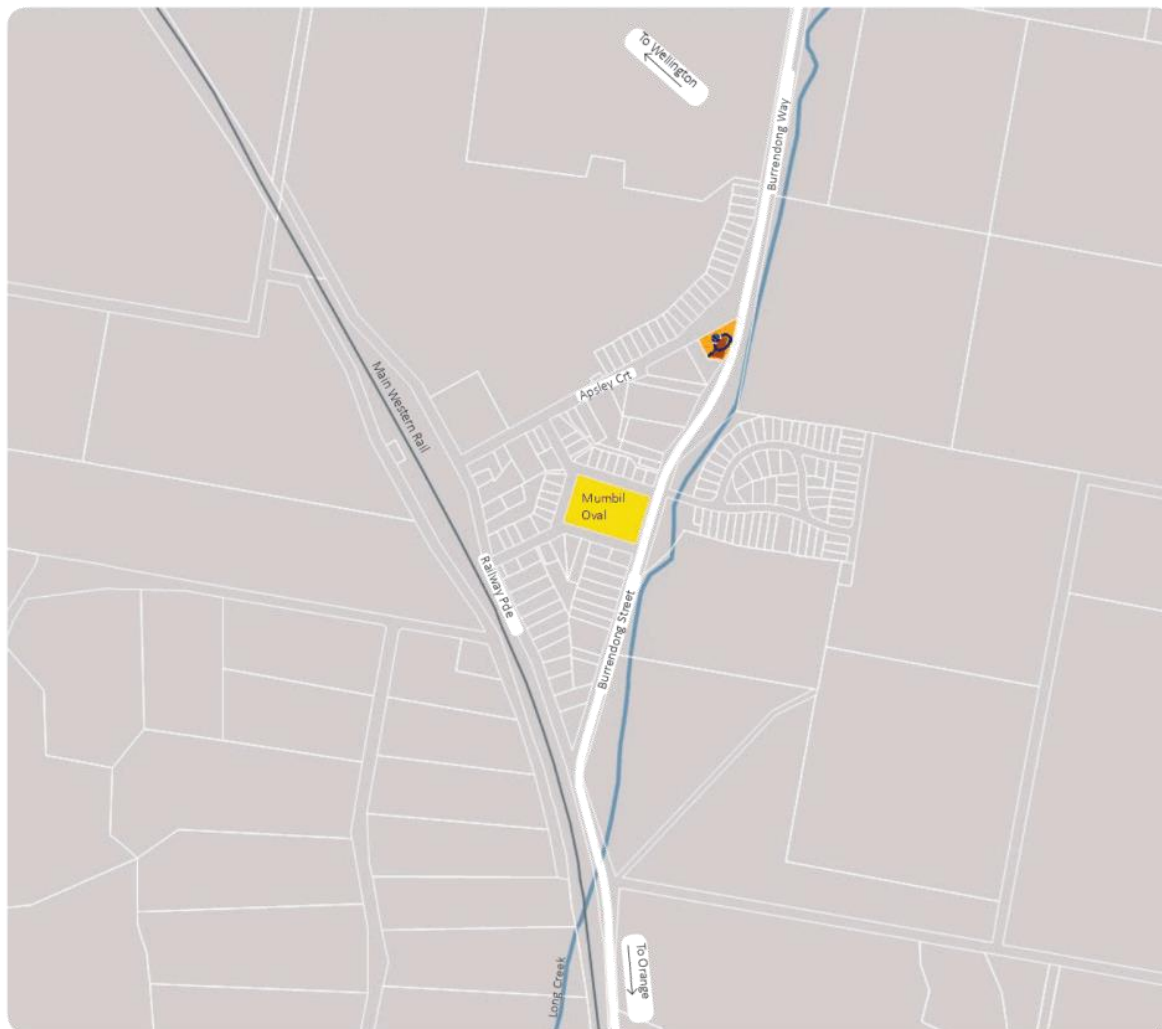
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Structured Sports - Geurie

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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Tennis

- Tennis Courts are located in the reserve on Apsley Crescent. These courts are in poor condition.

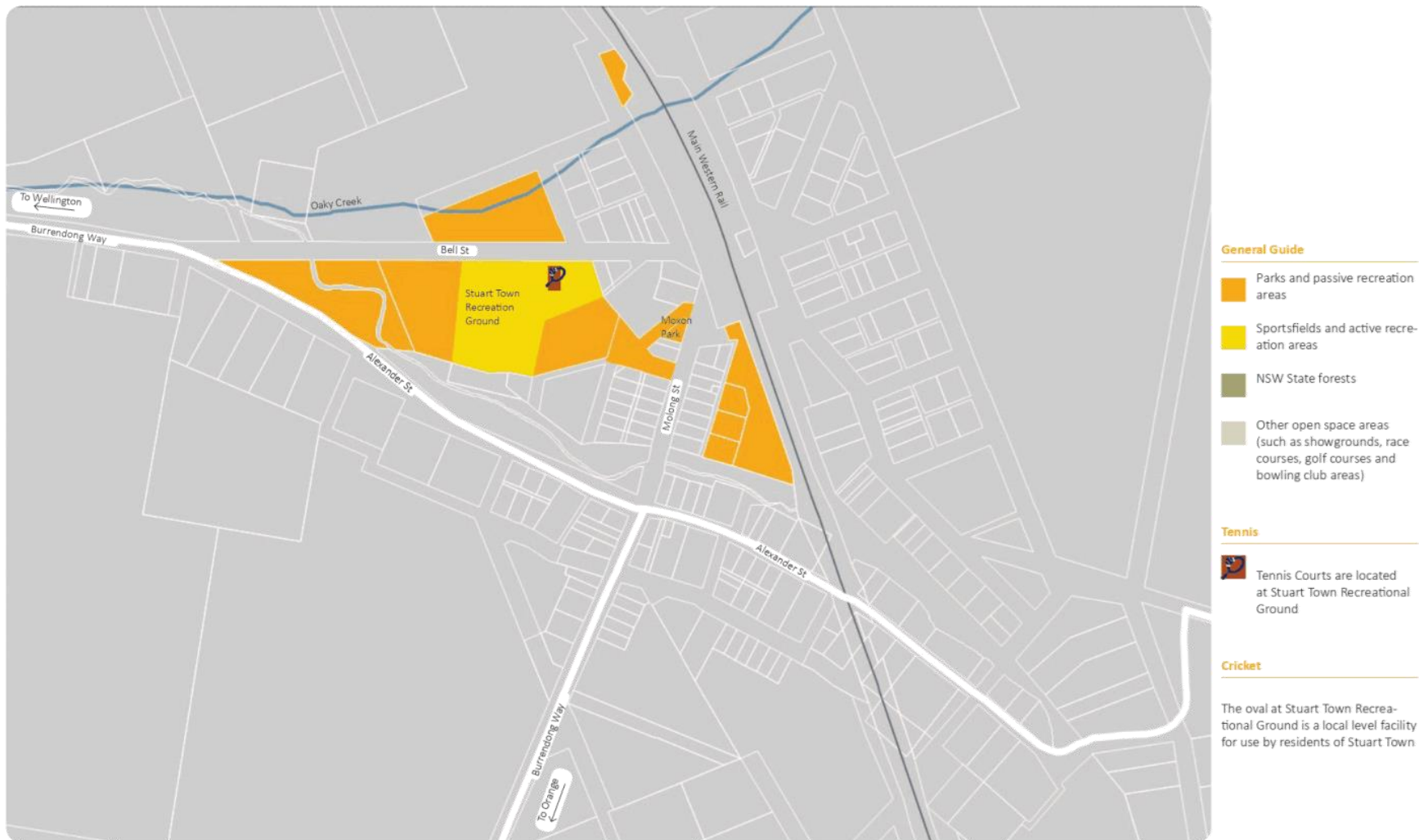
Cricket

Mumbil Oval is a local level facility for use by residents of Mumbil

Structured Sports - Mumbil

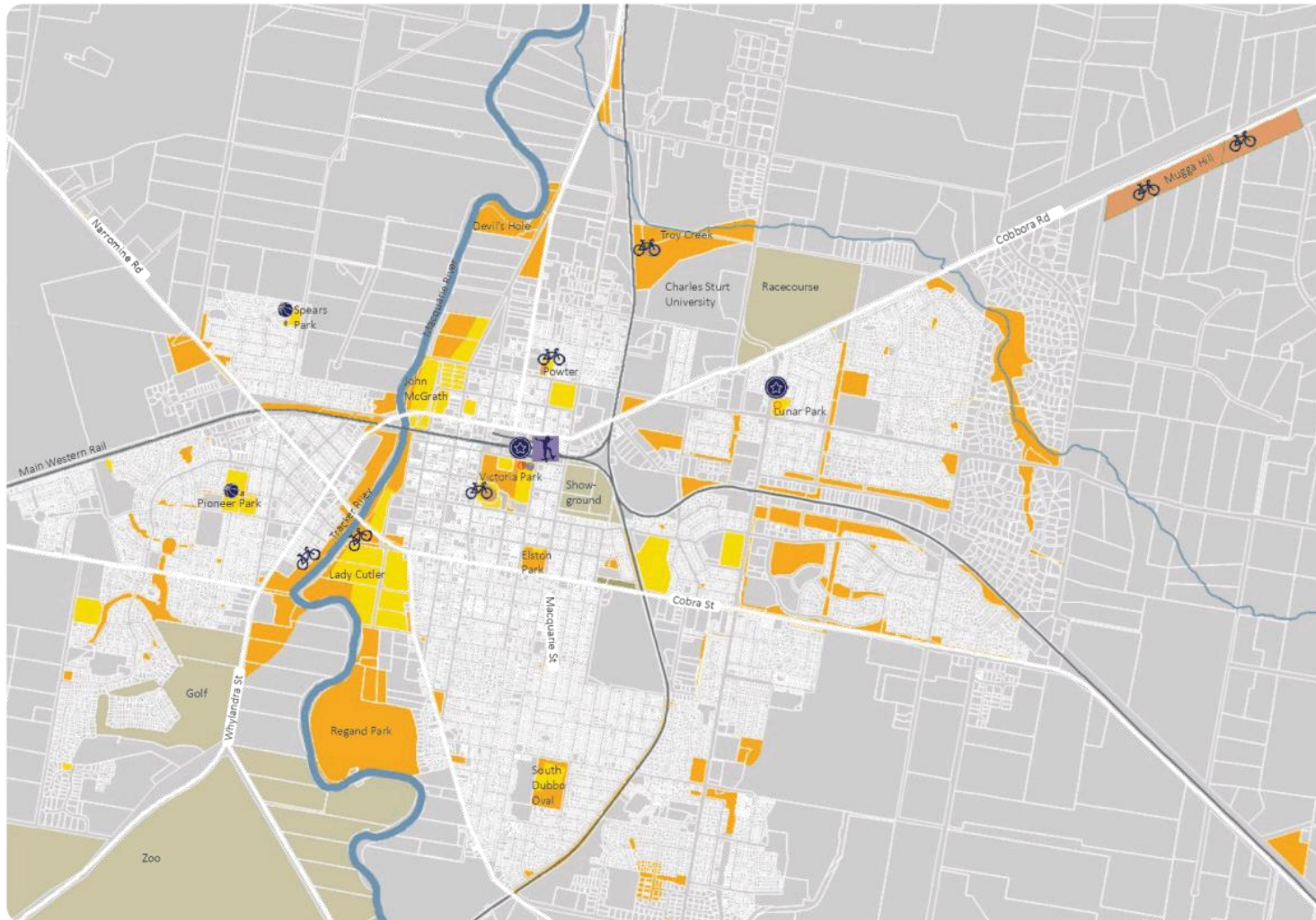
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Structured Sport - Stuart Town

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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Cycling

- Cycling is offered as several locations
Road cycling is available at Victoria Park Number 1 Oval and Dubbo Cycling Facility Troy Creek.
Mountain biking can be found at Mugga Hill
BMX track is at Powter Park
Recreational cycling also along the Tracker Riley Path

Skate Park

- Dubbo Skate Park is at Victoria Park, Number 3 Oval North

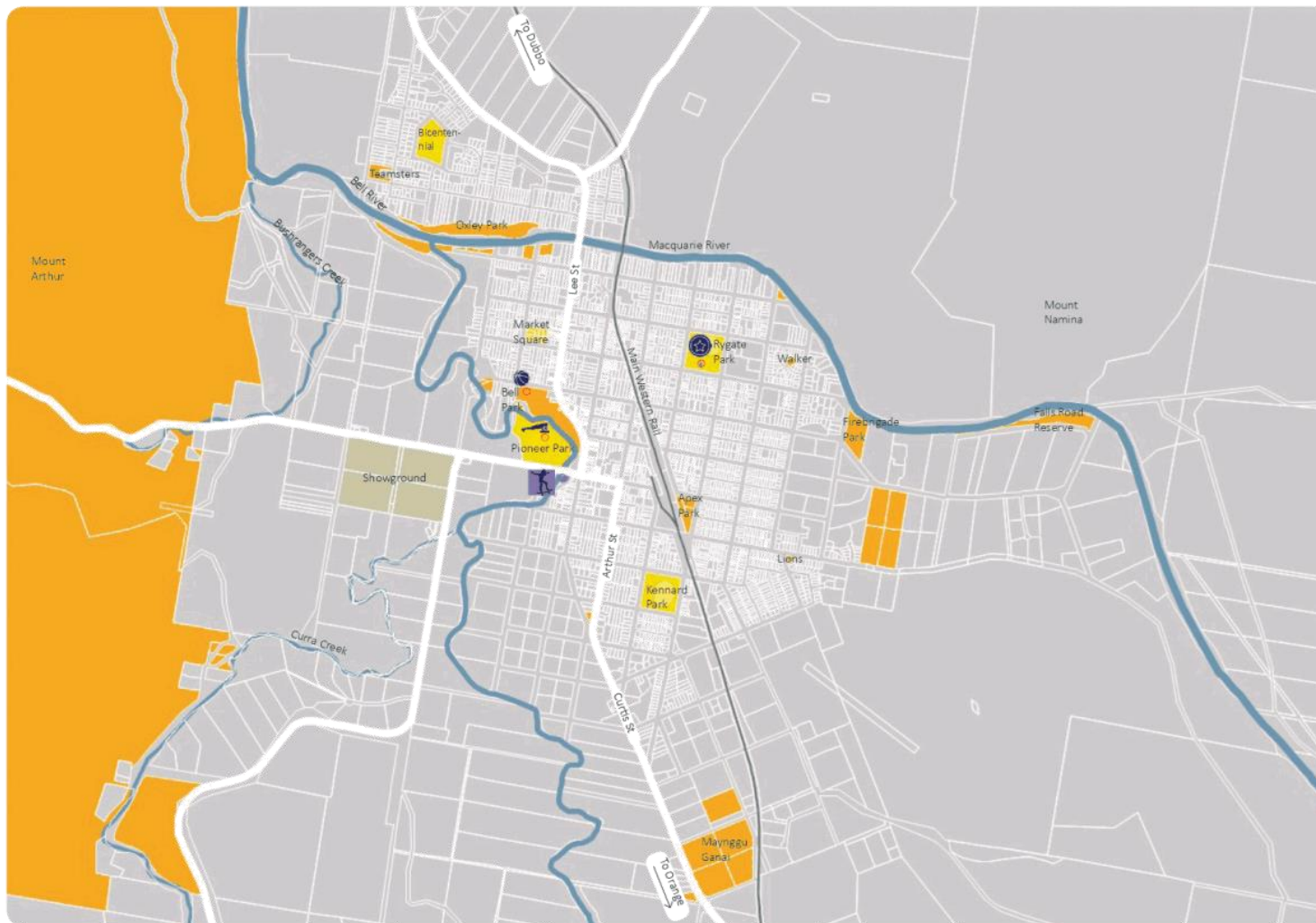
Basketball and Multicourts

- Outdoor basketball courts are at Spears Park Pioneer Park and
- Victoria Park, Number 3 Oval and Lunar Park are multi-courts

Flexible Open Space - Dubbo

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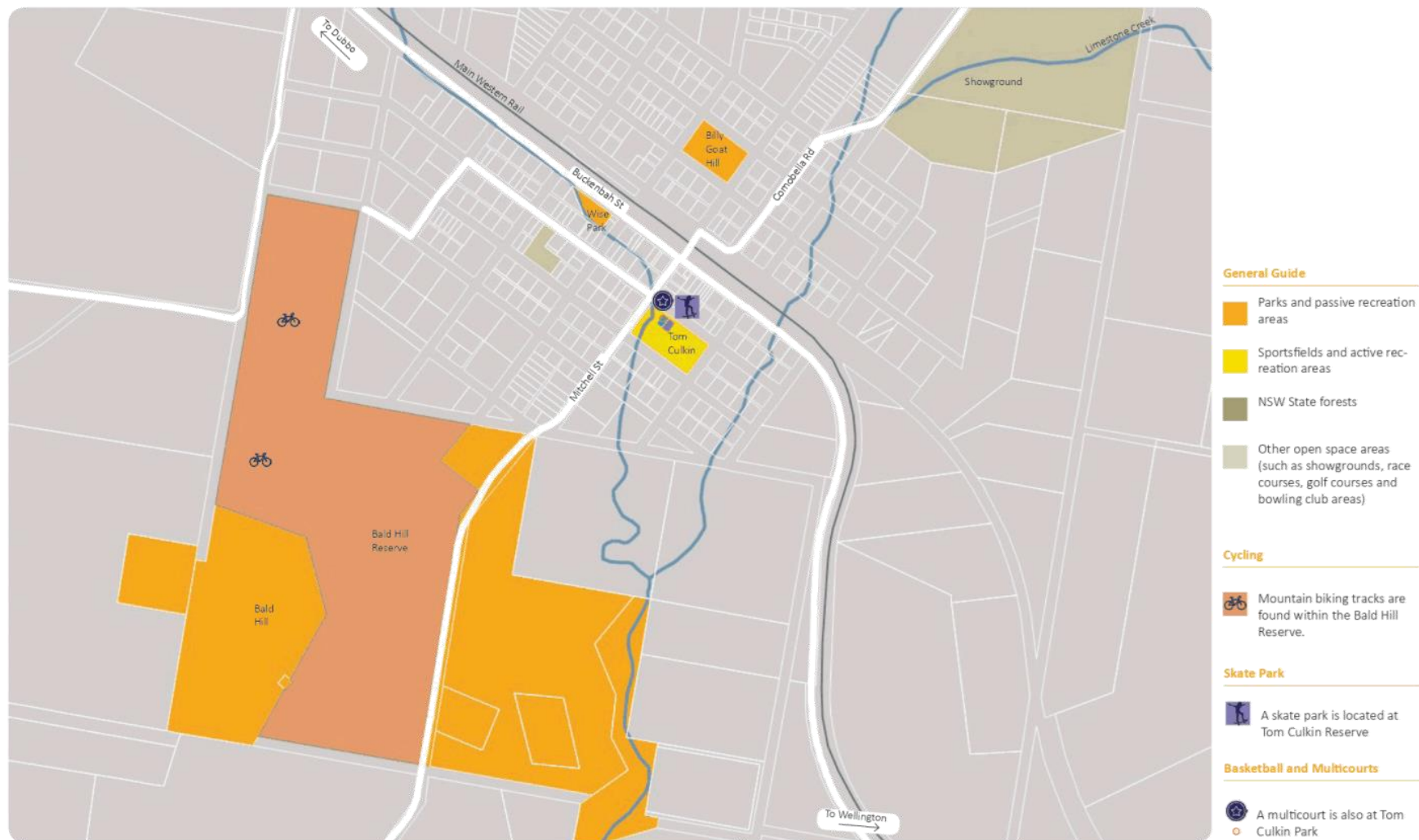




- General Guide**
- Parks and passive recreation areas
 - Sportsfields and active recreation areas
 - NSW State forests
 - Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)
- Skate Park**
- A skate park is located opposite Pioneer Park on Namina Crescent
- Basketball and Multicourts**
- A multicourt is located at Rygate Park
 - Basketball courts are located at Bell Park (currently closed)
- Fitness Stations**
- Fitness stations are proposed at Pioneer Park

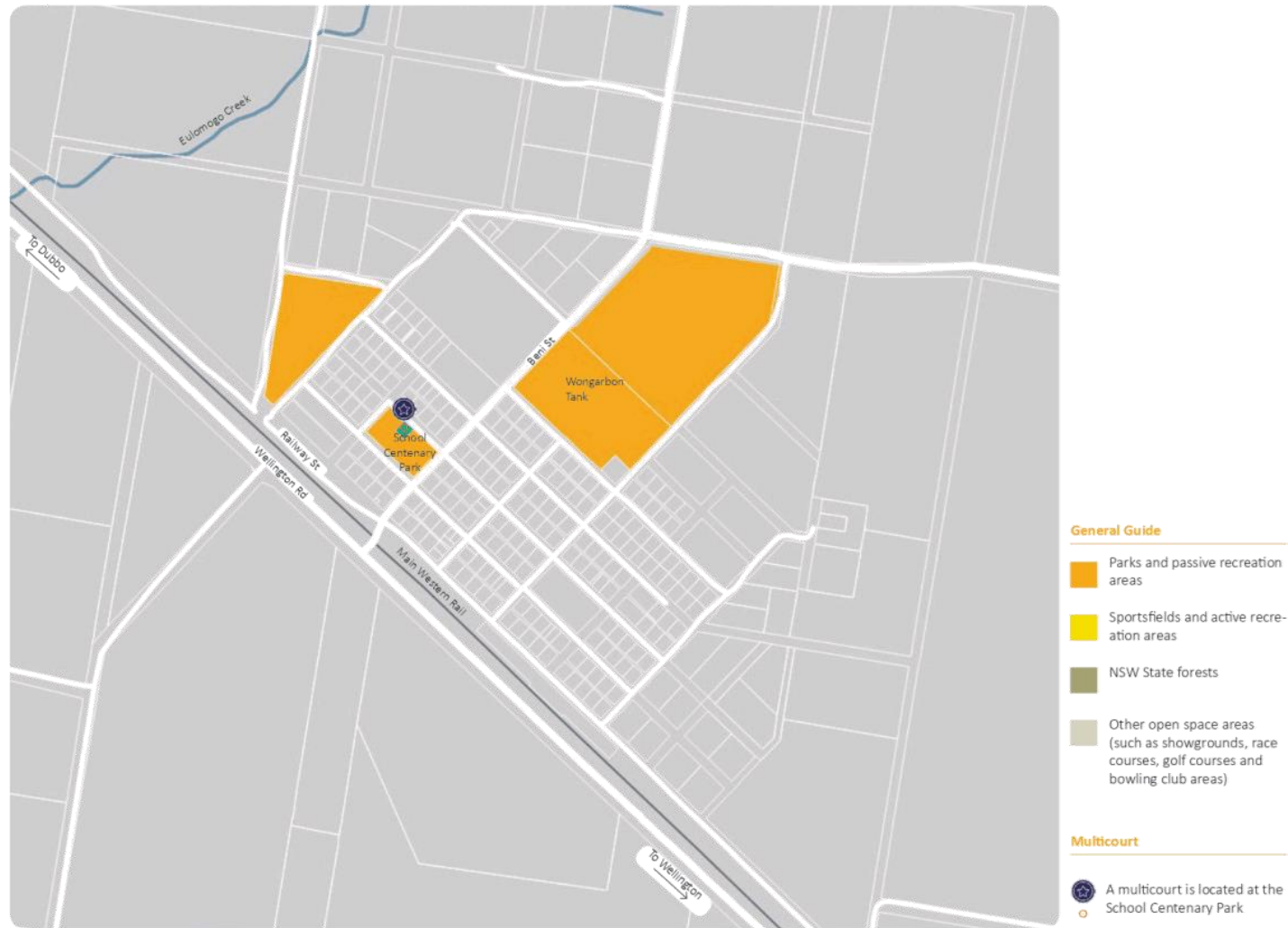
Flexible Open Space- Wellington

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Flexible Open Space - Geurie

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Flexible Open Space - Wongarbron

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Action Plan 2: Activated Open Space

OBJECTIVES

4. Develop plans for quality informal recreation to meet future needs of the community

ACTIONS

- 4.1 Develop plans to activate precincts to meet future population growth areas, particularly in urban release areas. This includes, Keswick, Southlakes, Grangewood / Delroy, Holmwood and Montifiores.
- 4.2 Review the supply of open space for recreation in DRC neighbourhoods, particularly outside of Dubbo and Wellington, including a plans for the villages.
- 4.3 Review playground areas and use to ensure a spread of quality playgrounds.
- 4.4 Develop policy and plan for accessible options for disabilities at selected locations.
- 4.5 Review and plan for future playgrounds across key locations including new release areas and towns.
- 4.6 Review and plan opportunities to increase provision for leisure and passive recreation based sports, including, walking, running, bush walking, trail riding, cycling, mountain biking, skating, outdoor table tennis, volleyball, kayaking.
- 4.7 Update landscape guidelines to support recreation and open space development.
- 4.8 Embellishment of connections to Macquarie River Corridor, Dubbo, and Bell River, Wellington. Activate connections and linkages to the city, tracks and trails.
- 4.9 Implement connections to camping and kayaking locations.
- 4.10 Continue to develop concept and master planing for major park facilities.

Action Plan 2: Activated Open Space

OBJECTIVES

5. Provide opportunities for a diverse range of recreation opportunities to benefit the health and well being of the community

ACTIONS

5.1 Develop and implement a style manual for a consistent look for DRC structures and furniture. To include:

- Shade structures
- Fencing types
- Standard park and street furniture
- Way-finding and signage
- Lighting

5.2 Implement an LGA wide approach to locations for group fitness, boot camps, fitness stations and obstacle or 'Ninja' style training.

5.3 Develop networks and safe connections for cycling, walking, dog-off leash areas, walking to school, shade and resting stops to improve ease of access to maintain a healthy lifestyle. Improve integration of work with cycling and walking networks.

5.4 Provision of quality, safe and well maintained infrastructure to facilitate activation of open space networks. Including networks to join new release residential areas along north west, north east and south Dubbo.

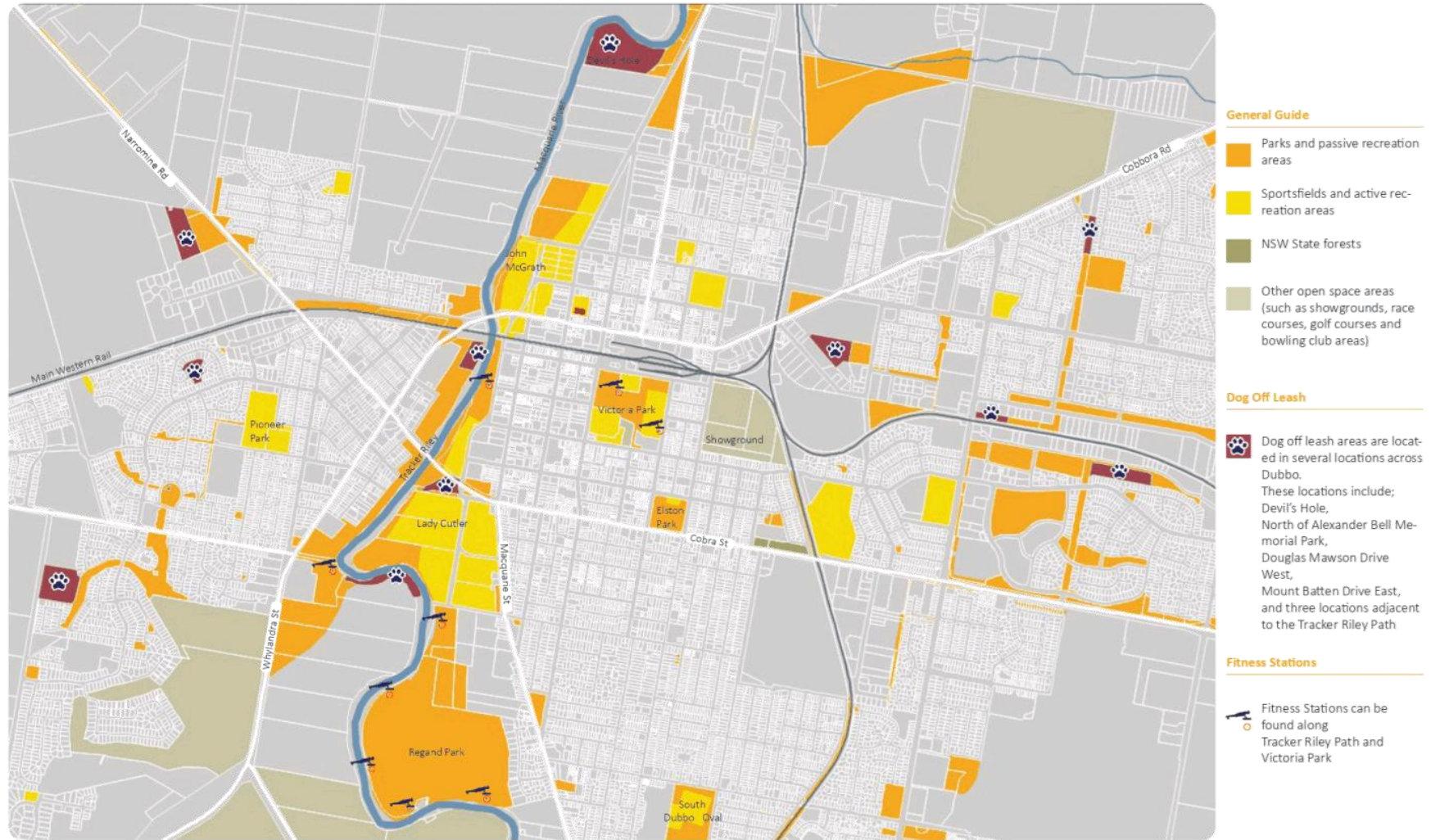
5.5 Provision of embellishment to assist with creation of recreational networks, including play space, car parking and footpath extensions to support the Macquarie River corridor.

6. Provide opportunities for engaging younger people in recreation

6.1 Provide recreational opportunities for youth spaces, skate parks, multi courts and dance space with a social engagement focus.

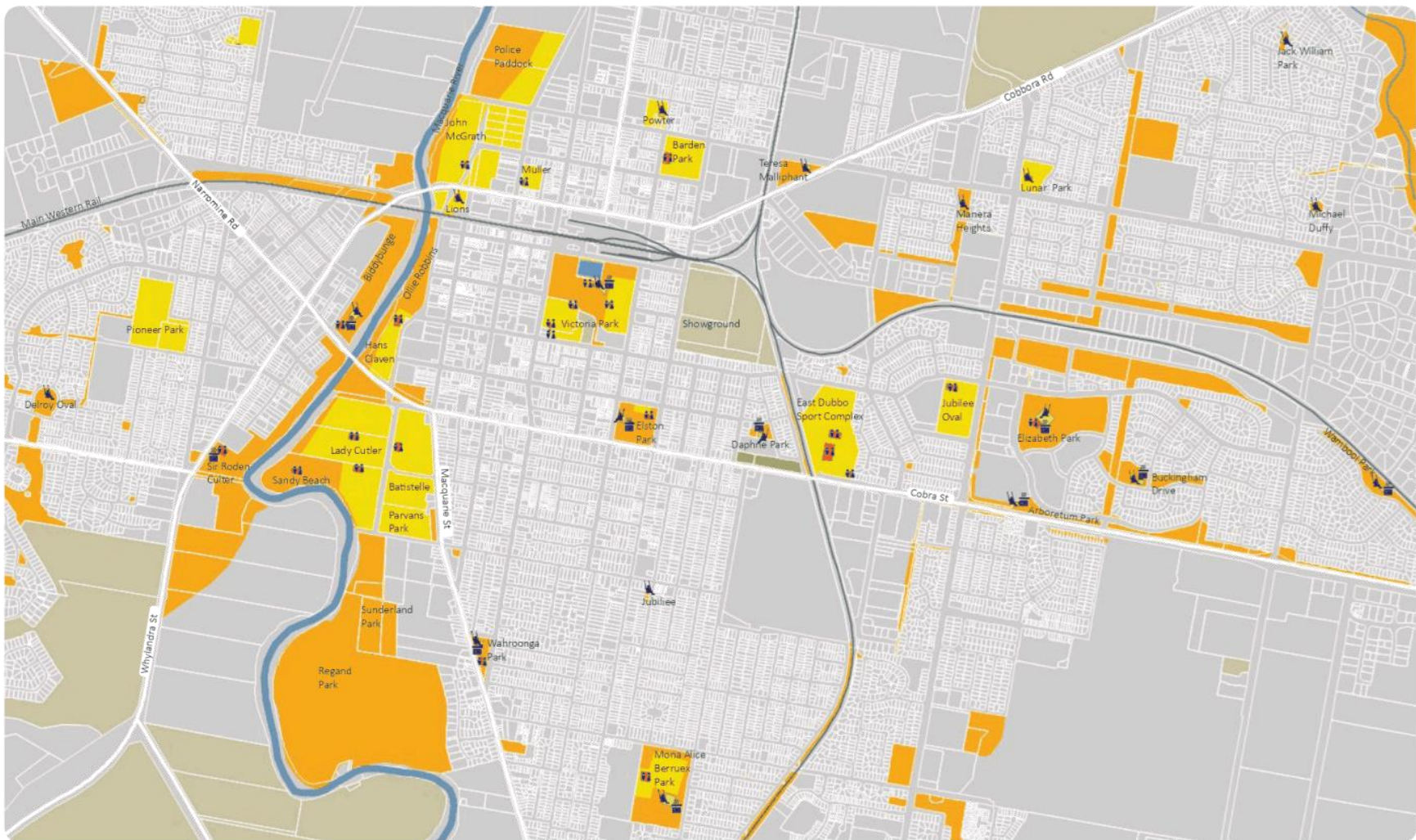
7. Provide a framework to allow for opportunities for private activation.

7.1 Develop opportunities and space for private businesses to expand recreational opportunities e.g. mobile food and coffee to bike or kayak hire.



Activated Open Space - Dubbo

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Leisure - Dubbo

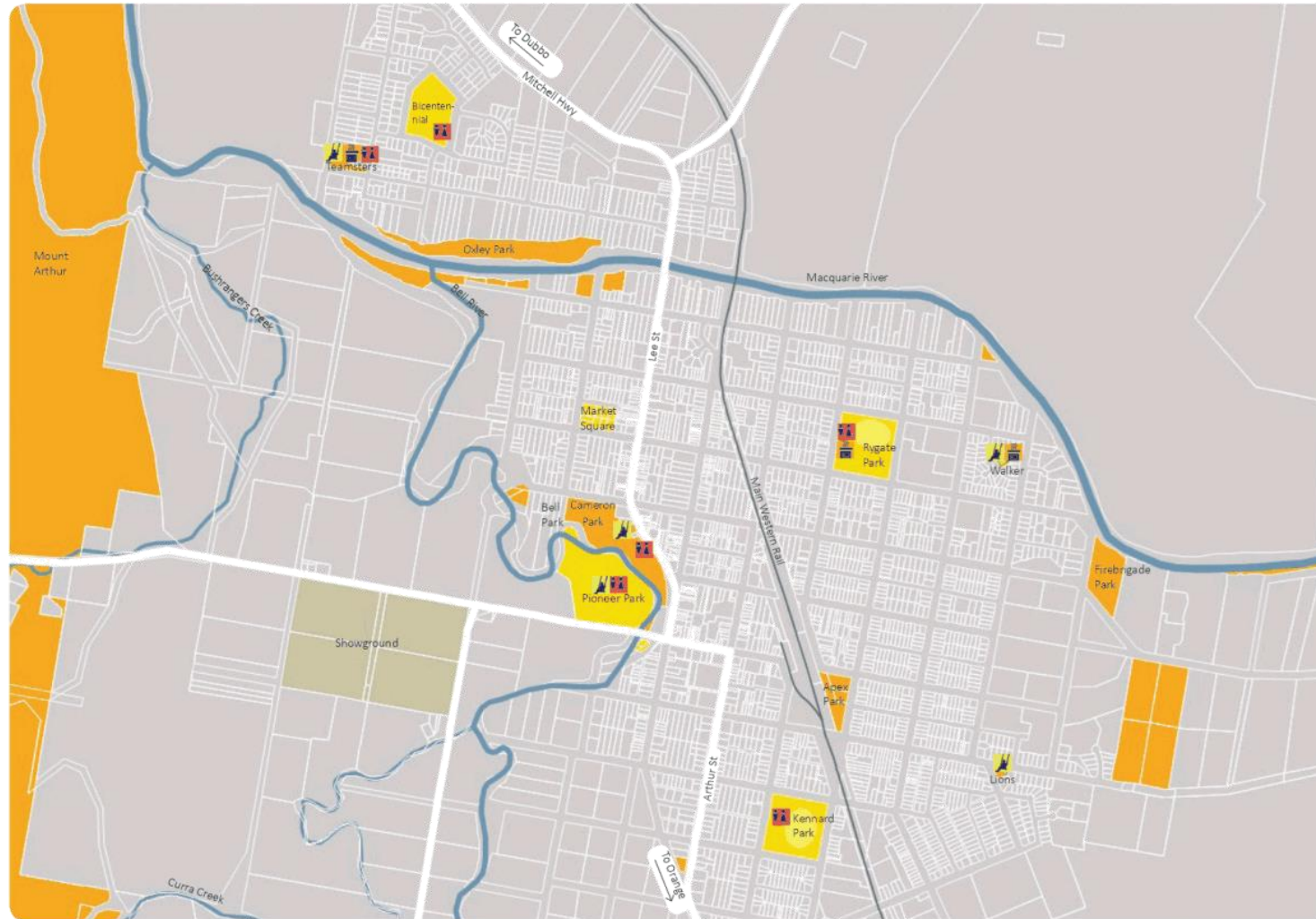
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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas

Facilities

-  Picnic shelters and Barbecues
Popular areas include Sir Roden Cutler, Victoria Park and Elizabeth Park
-  Playgrounds
Larger facilities can be found at Elizabeth Park, Delroy Oval, Elston Park and Liwi's Place within Victoria Park.
-  Amenities
Public toilet and change facilities are in several locations across Dubbo.



General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Facilities

- Barbecues are located at Teamsters Park and at the Walker Street Park.
- Playgrounds are at several locations across Wellington including Cameron Park, Teamsters Park, Pioneer Park, the Lions Park and Walker Street Parks.
- Amenities
Public toilets are located at Bell Park, Cameron Park, Teamsters and also with sports amenities at Pioneer Park, Bicen-tennial Park, Kennard Park and Rygate Park.

Leisure - Wellington

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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
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- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

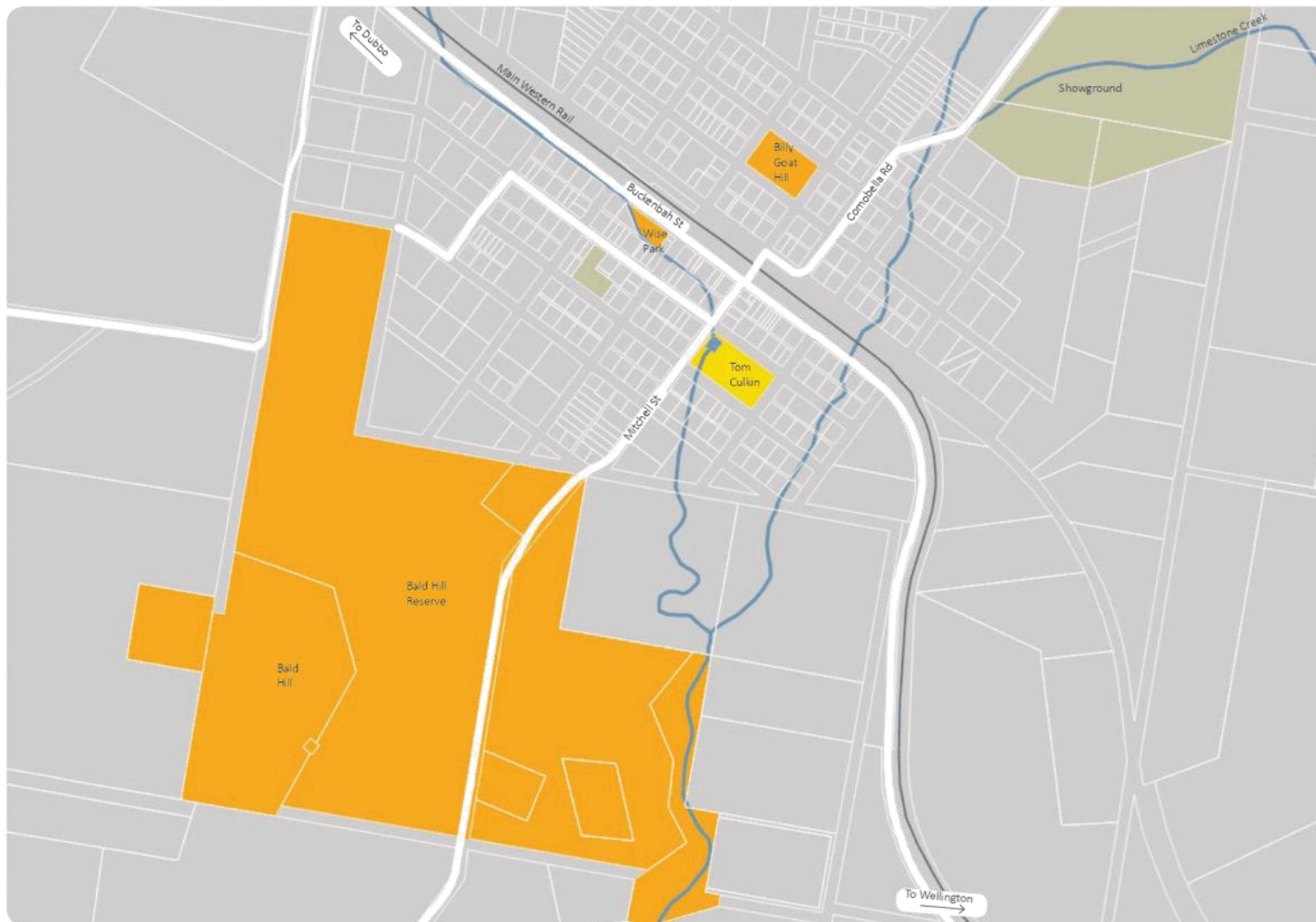
Facilities

- Picnic shelters and Barbecues are located next to Ballimore Inn
- Playground is also available at the reserve next to Ballimore Inn.
- Amenities
Public toilets are located at the reserve next to Ballimore Inn.

Toilets are also located with the club house at Ballimore Park for club use.

Leisure - Ballimore

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General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

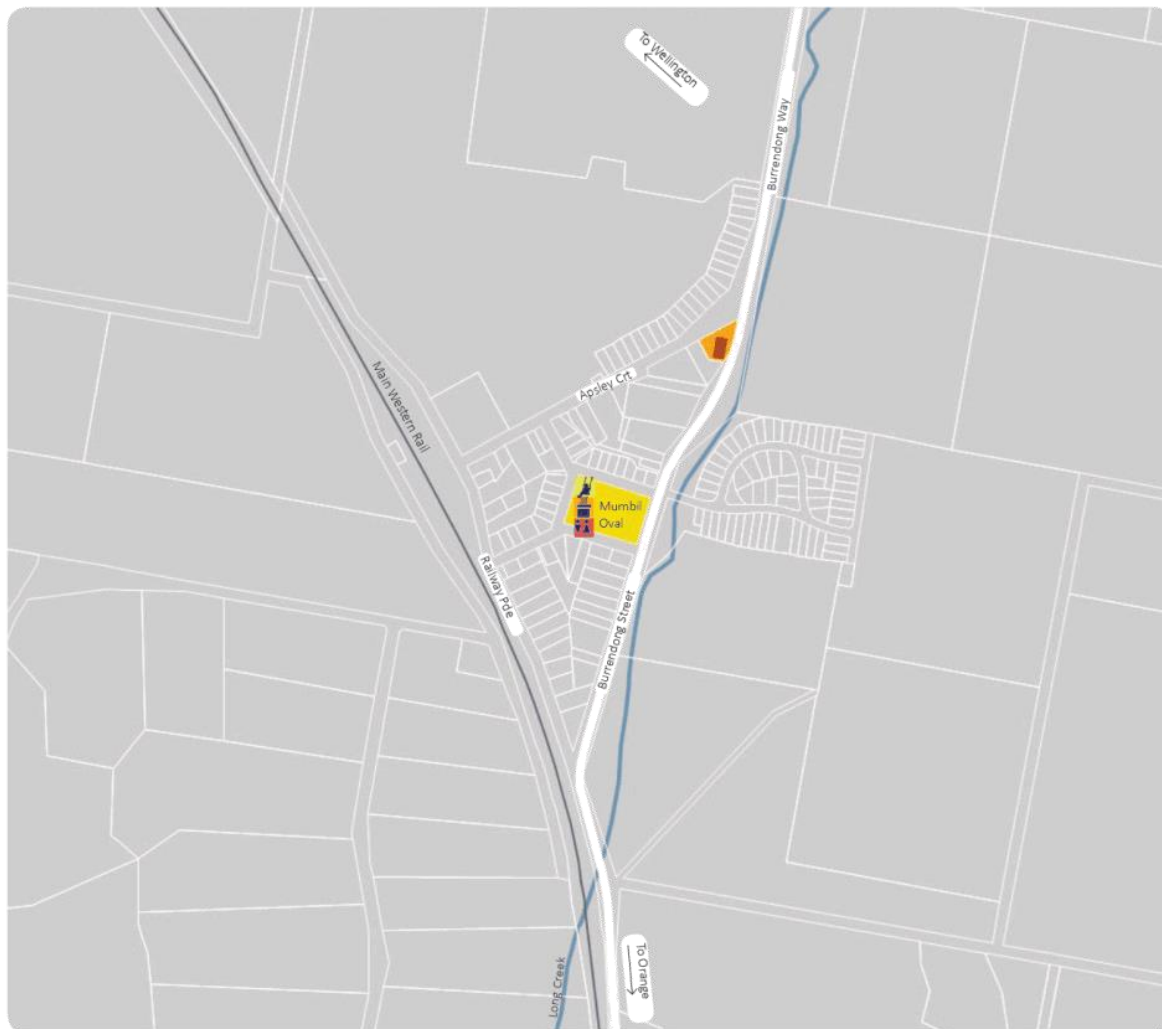
Facilities

- Picnic shelters and Barbecues are located next to Ballimore Inn
- Playground is also available at the reserve next to Ballimore Inn.
- Amenities
Public toilets are located at the reserve next to Ballimore Inn.

Toilets are also located with the club house at Ballimore Park for club use.

Leisure - Geurie

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- General Guide**
- Parks and passive recreation areas
 - Sportsfields and active recreation areas
 - NSW State forests
 - Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)
- Facilities**
- Picnic shelter is located in Mumbil Oval
 - Playground is also available at the oval
 - Amenities
Public toilets are located at the reserve

Leisure - Mumbil

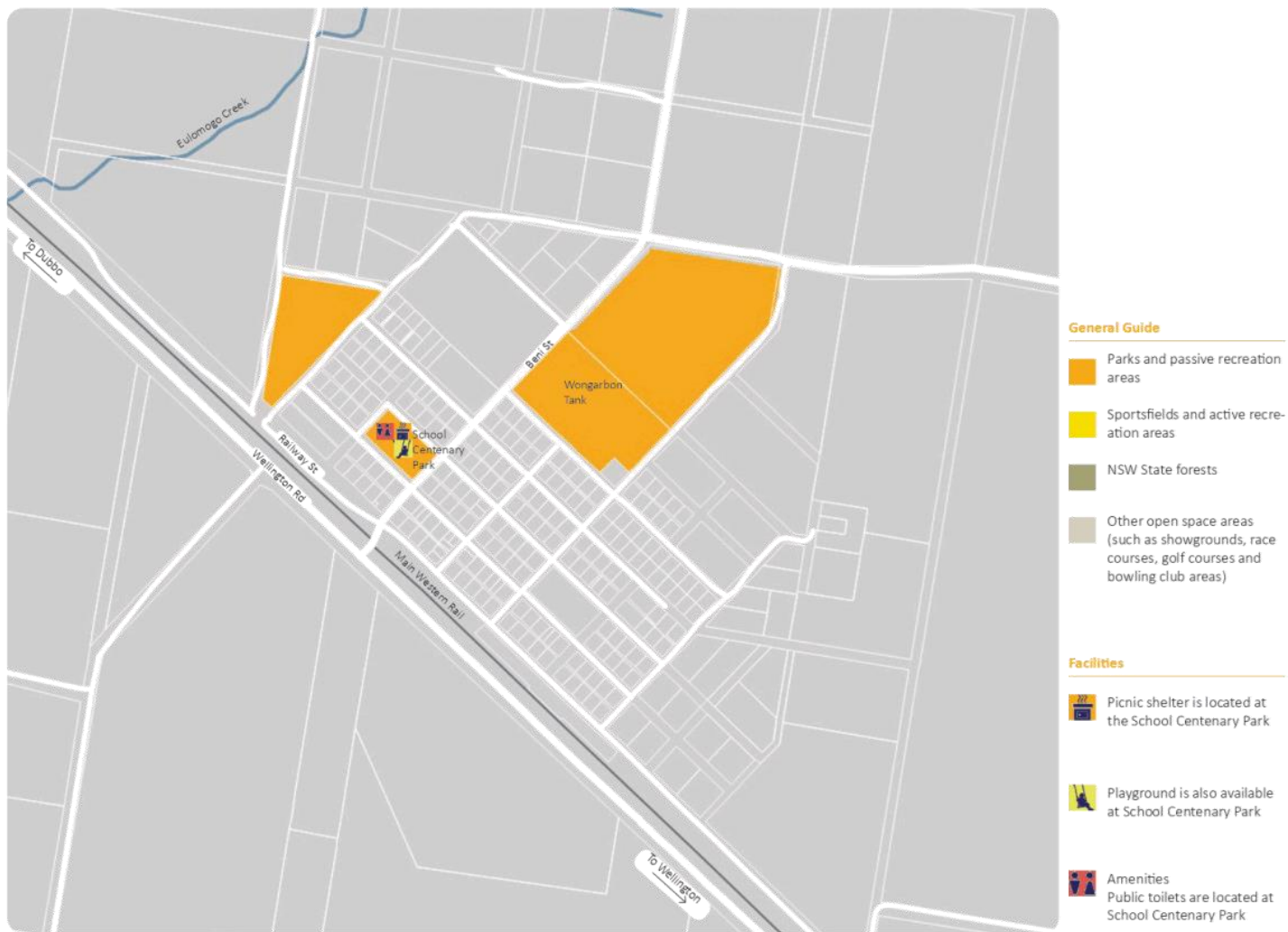
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Leisure - Stuart Town

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Leisure - Wongarbon

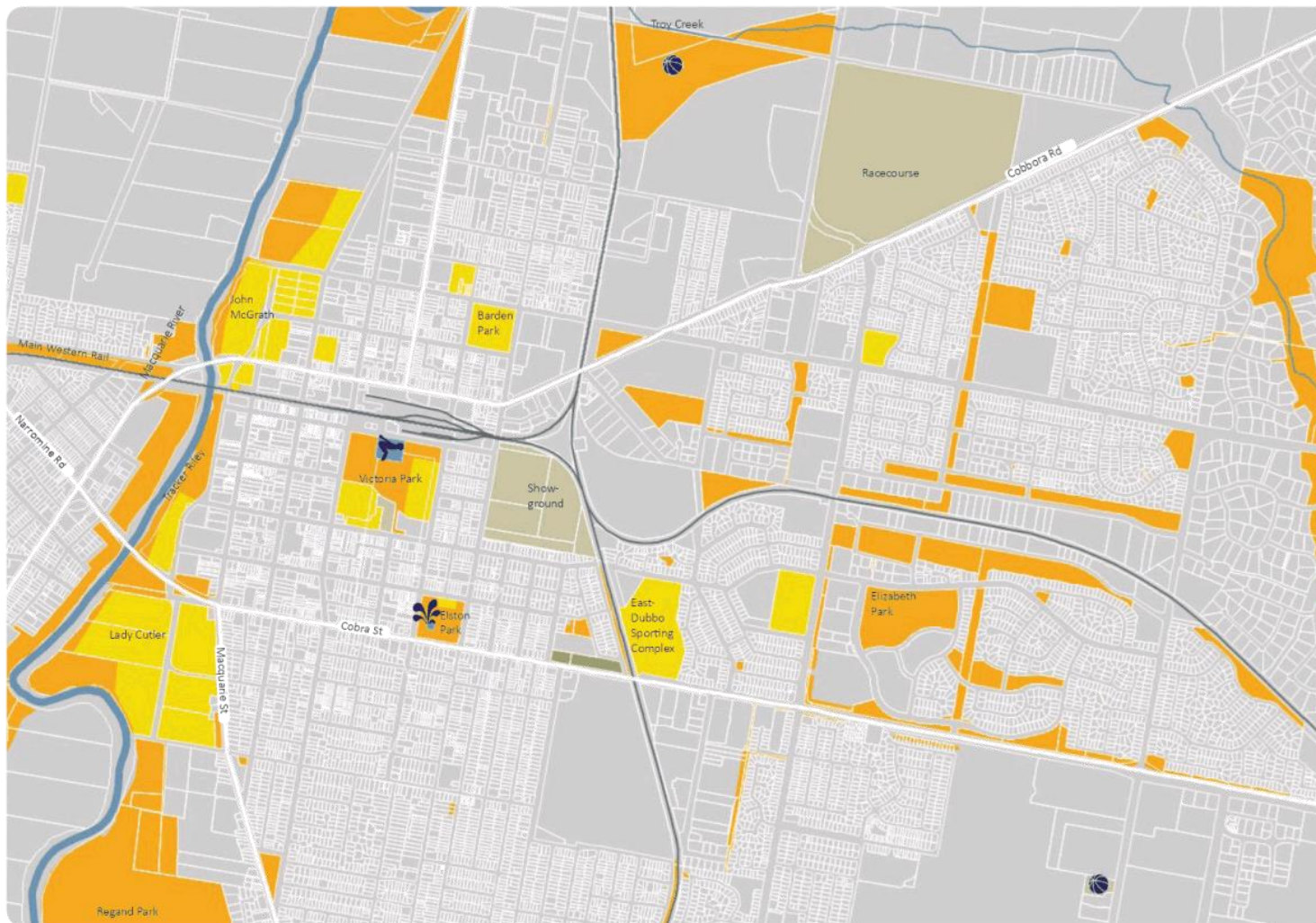
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Action Plan 3: Indoor and Aquatic Facilities

OBJECTIVES

ACTIONS

8. Plan for long term equitable spread of indoor and aquatic facilities	<p>8.1 Complete analysis of current and future needs analysis, including supply and demand assessment as well as potential shortfalls in indoor courts.</p> <p>8.2 Basketball: Assist in coordination of a community based facility long term at the new Indoor Sports Facility. Dubbo Basketball in expanding its opportunities for long term facilities upgrades. Assess feasibility for the number of courts and programs across the region as staged development.</p> <p>8.3 Support Basketball programs to encourage diverse and inclusive groups including indigenous, youth and social engagement programs.</p> <p>8.4 Promote partnerships with the existing indoor sports centre to ensure equitable use of spaces.</p>
9. Develop Dubbo Regional Sporting Hub	<p>9.1 Plan for a key indoor facility to be co-located with the Charles Sturt University, Dubbo Indoor Multi-court Facility, Cycling, PCYC and netball facilities. Construction planning for stages.</p> <p>9.2 Investigate partnerships with key stakeholders such as, state sporting organisations, community groups and agencies, local schools and hospitals to expand offering of activities and complementary services.</p>
10. Improve water based sports	<p>10.1 Deliver Dubbo Aquatic Leisure Centre master plan with opportunities to expand the facility mix, programs and services at existing aquatic centres.</p> <p>10.2 Improve offering of activities. These may include offering expanded types of water based activities (e.g. aquarobics) as well as use of spaces for complimentary services (e.g. yoga, pilates or physiotherapy).</p> <p>10.3 Swimming: Support swimming club programs and assist in encouraging higher level competition at the indoor facility.</p> <p>10.4 Support Wellington Swimming Club with programs and training to provide a sustainable long term facility.</p> <p>10.5 Deliver Geurie Swimming Pool long term vision.</p>



General Guide

- Parks and passive recreation areas
- Sportsfields and active recreation areas
- NSW State forests
- Other open space areas (such as showgrounds, race courses, golf courses and bowling club areas)

Aquatic and Water Parks

- Dubbo has two water facilities
- Dubbo Aquatic Leisure Centre operates a 50m Olympic sized pool, a leisure pool and a water slide
 - Elston Park Splash Pad

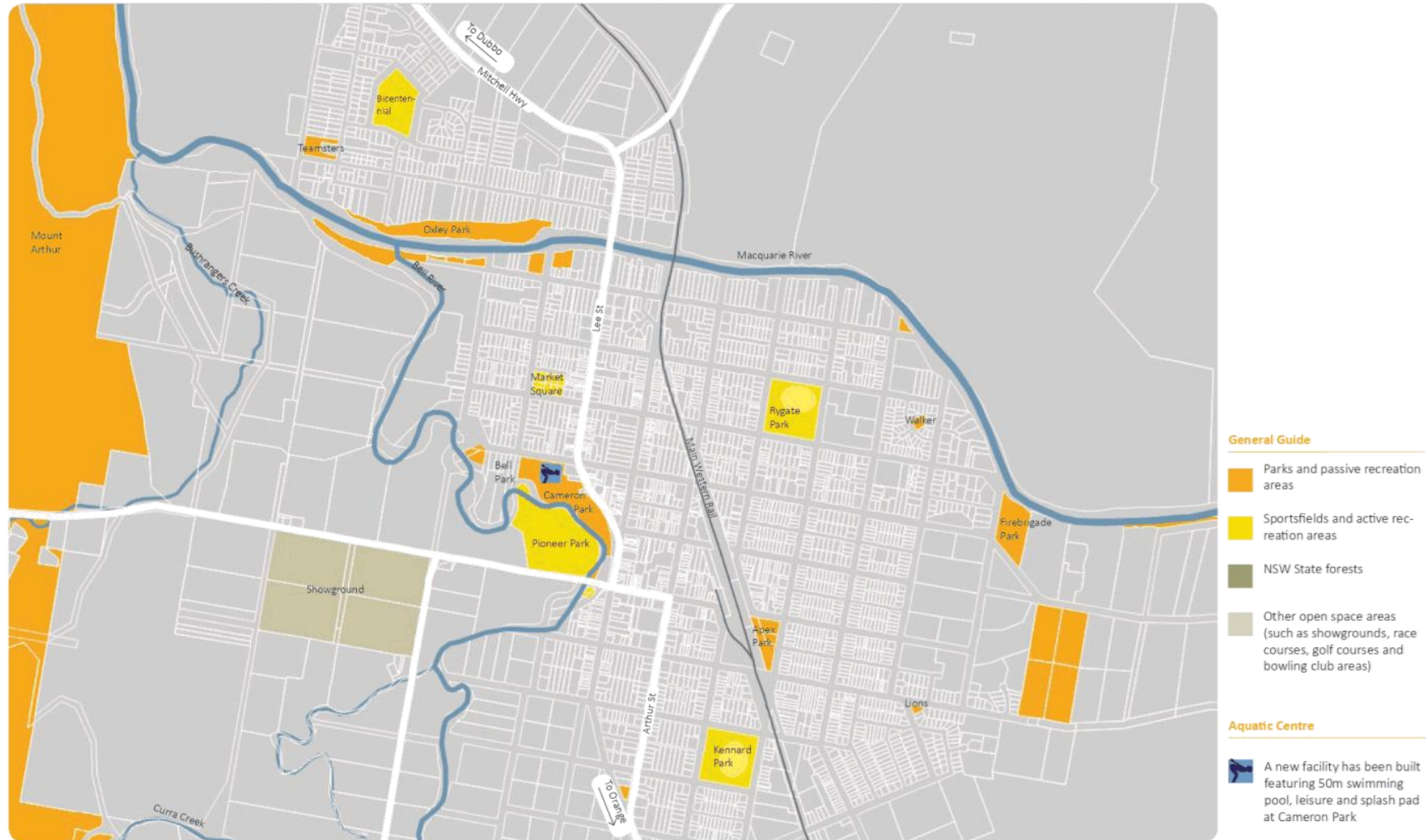
Indoor Facilities

- An Indoor Facility is proposed at a location near Troy Creek and the Charles Sturt University Campus
- Currently basketball is held at Dubbo Sports World

Indoor and Aquatic Facilities - Dubbo

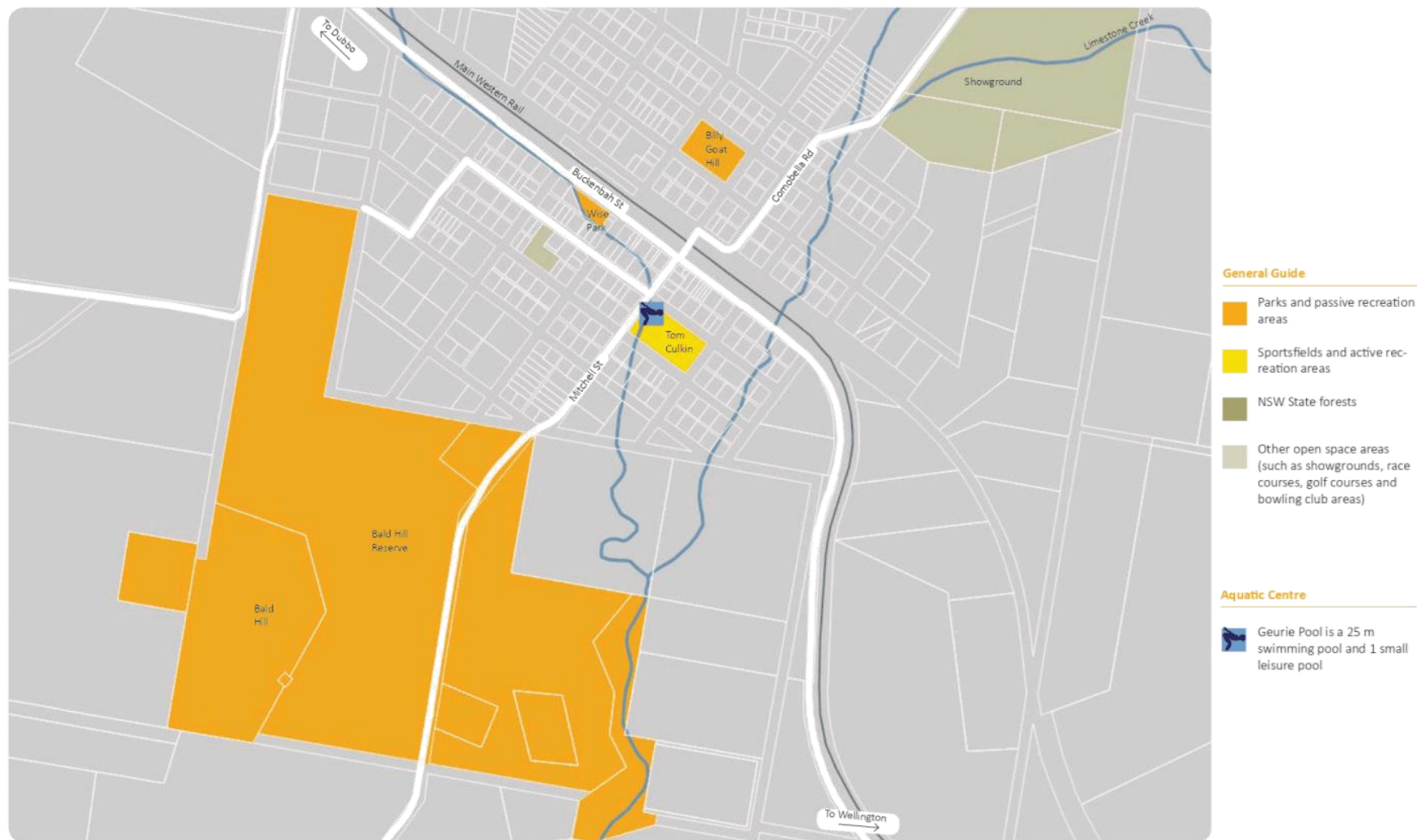
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Aquatic Facility - Wellington

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Aquatic Facility - Geurie

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PROGRAMS & PARTNERS

Action Plan 4 : Partnerships and Programs

OBJECTIVES	ACTIONS
11. Improve communication and usage across all facilities	11.1 Clearly communicate seasonal allocation of sports grounds to maximise usage and plan for periods of targeted maintenance.
	11.2 Update the Playing Field Policy to communicate to all users defined maintenance standards, schedules for cleaning and operating responsibilities.
	11.3 Develop a marketing and communication strategy to promote passive and unstructured recreation. This may include web links for walking, cycling, kayaking and camping.
	11.4 Update hire agreements and expectations of DRC every year. Hire agreements should clearly communicate all responsibilities, expectations for waste and cleaning, permissible uses, fees and charges.
12. Develop healthy programs	12.1 Develop the overarching participation and partnership program directions to foster activation, sustainable recreation and accessible physical activity programs.
	12.2 Work with NSW Office of Sport and other partners to assist in delivery of combined outcomes.
	12.3 Support under-represented community groups to improve access to sport and recreation opportunities. These groups may include: <ul style="list-style-type: none"> Indigenous and culturally diverse groups Youth to Seniors People with a disability Inactive.
	12.4 Continue to support sport in the LGA through provision of a discount for sport specific preparation.
13. Promote fit for purpose facilities across the LGA	13.1 Partner Office of Sport for sport usage modelling, data collection and review. Undertake review of existing under utilised facilities.
	13.2 Facilitate recreational outcomes across master plans such as North Dubbo Sporting Complex, Macquarie River corridor, Police Paddock and Lady Cutler precincts. Design principles to align with this strategy.

Action Plan 4 : Partnerships and Programs

-
14. Grow sustainable opportunities for inclusive partnerships
- 14.1 Work with sporting associations, community, PCYC, Health and other agencies to improve their capacity to provide appropriate and successful programs.
 - 14.2 Partner attendance at the Dubbo Regional Sports Council. Support clubs on strategic and development programs aimed at improving governance and management arrangements. Aim to support increasing participation and planning for infrastructure.
 - 14.3 Plan for appropriate spaces for sports events, festivals, markets, fairs and other temporary opportunities.
 - 14.4 Maintain and enhance existing successful sporting and active recreation events.
 - 14.5 Work in collaboration with key stakeholders to attract sport and recreation events and ensure event legacy planning.
-

Footnotes

1. NSW Government 2017, Department of Planning and Environment, Central West and Orana Regional Plan 2036
2. Kostrzewska, M 2017, 'Activating Public Space: How to Promote Physical Activity in Urban Environment' IOP Conf. Ser.: Mater. Sci. Eng. 245 052074
3. Australian Government 2019, Australian Sports Commission, 'Australia's top 20 sports and physical activities revealed'
4. Australian Government 2018, Department of Health, Sport 2030
5. PricewaterhouseCoopers 2015, Weighing the cost of obesity: A case for action, PWC (2015)
6. Parsons, S 2018, 'More than a Game: Evaluating the Economic Contribution of Sport to the Australian Economy,' 2018 Treasury Research Institute Essay Competition
7. Australian Government 2019, Australian Sports Commission, 'Clearinghouse for Sport and Physical Activity' - <http://www.ausport.gov.au>.
Also refer to: Australian Government 2019, Australian Sports Commission, 'Australia's top 20 sports and physical activities revealed'
8. Eime RM, Harvey J, Charity MJ, Casey M, Westerbeek H, Payne WR 2017, 'The relationship of sport participation to provision of sports facilities and socioeconomic status: a geographical analysis' *Aust NZ J Public Health*. 2017; Online; doi: 10.1111/1753-6405.12647
9. NSW Government 2019, Sport NSW, Future Directions An aspirational and inclusive approach to the delivery of sport and active recreation in NSW 2019-2022.



DUBBO REGIONAL
COUNCIL

REPORT: Tree Amenity Valuation on Public Trees

AUTHOR: Manager Recreation and Open Space
REPORT DATE: 5 August 2019
TRIM REFERENCE: ID19/1086

EXECUTIVE SUMMARY

Trees located on public land within Dubbo, such as the park and street trees, are owned by the public and are managed on their behalf by Dubbo Regional Council.

It is also widely recognised that trees have an amenity value within a given landscape. Where the trees are located on municipal controlled land, this value resides within the public consciousness. Removal of trees within these public lands, whether it is as a result of vandalism or at the request of a Developer, in effect impoverishes the broader community and future generations.

A report was prepared for the Infrastructure, Community and Recreation Committee meeting in May 2019 (ICR19/30) recommending implementation of a Public Tree Valuation calculation to be imposed upon developers and the public wishing to remove public street trees. The Amenity Valuation of Trees was placed on public exhibition for 28 days seeking community feedback on the proposal. One late submission was received that supported the tree valuation proposition, but also recommended the inclusion of an Environmental Services Value component.

It is recommended that the Tree Amenity Valuation on Public Trees be adopted in its current form.

FINANCIAL IMPLICATIONS

Dubbo Regional Council is not financially positioned to fund the cost of ensuring the medium term (15 years) viability of the public urban forest without financial support from non-rate revenue streams. It is therefore necessary to identify alternate and equitable means to spread the cost of maintaining and renewing the urban forest, or accept that the quality of the urban forest will continue to decline, over time reducing aesthetics of the City.

Through the adoption of the Tree Aesthetic Valuation Method a previously unidentified income stream can be generated to assist in the long term viability of the urban forest. The level of funding generated from this stream will vary annually depending on removal requests, vandalism incidents and successful prosecution, etc.

POLICY IMPLICATIONS

This report is consistent with the theme of **Liveability**:

Strategy:

5.10 The quality of our environment and lifestyle is enhanced by the provision of environmental education and regulation.

RECOMMENDATION

- 1. That the report from the Manager Recreation and Open Space dated 5 August 2019 be noted.**
- 2. That the Tree Amenity Valuation on Public Trees be adopted and implemented, with any funds raised as a result of the policy placed in a Restricted Asset for future Street Tree planting.**
- 3. That the Public Tree Removal – Amenity Valuation Policy be adopted.**
- 4. That the Public Tree Removal – Amenity Valuation Policy is reviewed annually with the Chief Executive Officer having the authority to modify/strengthen the policy, as required, to reflect an increased knowledge base as the policy is implemented, and changing community expectations.**

Ian McAlister

Manager Recreation and Open Space

BACKGROUND

Trees make a valuable contribution to the way that humans observe and interact with their environment. In the urban setting particularly, trees play a significant role in the aesthetic softening of the built environment through their shape and their foliage and floral displays. It has long been recognised (eg: Neely, D. 1979 *Guide for Establishing Values of Trees and other Plants. Revision IV* and Maurer – Hoffman 1970) that this aesthetic contribution by urban trees has a value to the general public that can be calculated and potentially recouped in circumstances where trees are requested or required to be removed.

Where street and park trees are removed at the request of the public and developers it is recommended that Dubbo Regional Council take the approach on passing on all of the identifiable costs associated with removal and re-establishment of the tree. It also recommends that as part of the identification of the costs associated with the removal of the tree the loss of value in terms of the public amenity should also be identified and passed on.

There are also instances where Council is required to remove a public tree for other reasons including vandalism of a tree that results in its death. Council is also requested by developers from time to time to remove trees to make way for their development. In both of these instances, it is argued that a recognised and accepted method to value the loss of amenity to the public (current and future) is required. This figure can then be added to the cost of removal and re – establishment of a tree/s and used to determine the level of compensation paid to Council if the perpetrator of the vandalism is identified. In the case of Developers, this figure could be used to assist in the determination of the cost level of (re) embellishment required as part of the landscaping component of the new development. In other words, the full cost of replacement of the loss of amenity value to the general public can be built in to the Development Application approval process through the landscape conditions and passed onto the Developer.

Where public trees are removed, other than by Council for infrastructure projects, it is proposed that Dubbo Regional Council takes the approach on passing on all of the identifiable costs associated with the tree. These costs can be summarised as:

Removal Cost + Amenity Cost + Re-instatement and Establishment = Total Charge

To determine the **Total Charge**, it is suggested that both the removal cost and the re-instatement and establishment costs are continued to be based on the actual costs of undertaking the works. To determine the Amenity Cost of the tree/s to be removed, it is suggested that a modified version of the City of Melbourne model that uses Yau's 1990 modified Maurer-Hoffman formula be considered. This model takes into account a number of factors including the size of the tree (that is related somewhat to the age of the tree), the species of the tree, the aesthetic value of the tree (eg: is it a single tree, or part of an evenly planted avenue), its location (eg: whether it is a reserve, village, residential street or park) and its overall condition (eg: health, vigour, life expectancy).

The basic monetary value of the tree was taken from the internationally accepted table of values devised by the American Council of Tree and Landscape Appraisers and the International Society of Arboriculture, which in the base year 1988 was \$US27 per square inch trunk basal area. When converted to a value corresponding to centimetres in trunk diameter at breast height (DBH), the Basic Monetary Value table, updated in 2017 to reflect more current monetary values. When young trees with a 6cm trunk diameter or less will be replaced by another tree, there will be no amenity value charge.

Value (V) = Basic Value (\$) x Species (S) x Aesthetics (A) x Locality (L) x Condition (C)

- The **basic monetary value** of a tree is determined by matching the trunk diameter at breast height (DBH) with its corresponding base value that is updated annually.
- The **Species value** of a tree is assessed according to its known natural life span and its rate of growth in a particular environment. For example, a long-lived tree will be scored higher than a short-lived tree.

Significant features to the tree will also modify how the tree is scored. Judgment regarding species factor is required to be made by a qualified Arborist.

- The **Aesthetics value** of a tree is determined by the impact on the landscape if the tree were removed. This category is closely tied to the locality factor (below).
- The **Locality factor** is determined by the tree's geographical situation. Trees in a major centre, main street or boulevard score highest because of the stressful growing environment in which the tree has to survive. As the location becomes more rural, the significance of the tree diminishes.
- The **tree condition value** is determined by a qualified arborist considering the condition of the trunk, growth (associated with health), and the structure of the tree and whether or not it is compromised by pests and/or disease.

Through the application of the amenity valuation process Developers and the public are still able to request the removal of public trees. This is important so not to prevent or discourage Developers from undertaking development projects within the City or members. It also enables the general public the opportunity to request the removal a particular tree that may be impacting on their property or quality of life but calculates the loss of amenity (in dollar terms) to the landscape, as well as the cost of removal and the replacement of the tree back on them.

Civil infrastructure projects undertaken by Council, or on our behalf, would be exempt from the application of the Tree Amenity Valuation Calculation on the basis that the works are carried out for the public good, and that Council already considers the cost of replacement trees in these works.

REPORT

A report entitled “Placing an Amenity Value on Public Trees” (ICRC19/30) was submitted by the Manager Recreation and Open Space to the May 2019 Ordinary Meeting of Council.

The report proposed the implementation of a policy that, if implemented, would enable Council to calculate the loss of amenity value resulting from the removal of a public street tree and recoup this cost from the developer, or the member of the public, who was requesting the tree’s removal. The basis of this proposed policy was that street trees are public assets and make a significant aesthetic contribution to our streetscapes, and provide a range of other environmental services and benefits, and have a value to the general public that should be recouped in circumstances where trees are requested or required to be removed. Any funds generated as a result of the policy would be placed in a Restricted Asset and utilised for future street plantings to enhance the public urban forest and increase canopy coverage of our urban areas.

Council noted the report by the Manager Recreation and Open Space dated 29 April 2019, and endorsed the recommendation of placing the Tree Amenity Valuation on Public Trees on public exhibition for a period 28 days to enable the community to provide comment. Consequently, the proposal of the Tree Amenity Valuation on Public Trees was placed on public exhibition from the 5th July 2019 for a period of 28 days.

The proposal was initially covered by the Daily Liberal (10 May 2019) and increased coverage of the proposal was achieved through the local Photonews newspaper in Council’s SNAPSHOT on the 11, 18 and 25 July 2019. The item was placed on the home page of Dubbo Regional Council’s website for prominence and was also publicised through the Media Release - May Ordinary Council Meeting Outcomes.

At the conclusion of the public exhibition period (2 August 2019) Council had received no submissions in regards to the proposed implementation of the Tree Amenity Valuation on Public Trees. A late submission was received from the Office Environment and Heritage primarily raising concern that an Ecological Service Value had not been included in the proposed calculation methodology. This concern is acknowledged and Council staff are in communication with the City of Melbourne who are further developing their tree valuation model to take this value into account. As the Melbourne model is further refined to include Ecological Services Valuation, Dubbo Regional Council will assess the viability of including this into future calculation models. In the OEH submission it was also raised that the proposed calculation formula (Maurer-hoffman) was developed initially in the northern hemisphere and could be biased towards northern hemisphere tree species. While the formula was developed by the United States Forestry it has undergone further development and refinement in Australia (e.g. City of Melbourne and City of Geelong).

It is fully expected that further development will be required to reflect endemic tree species, Locality and Aesthetic Valuations in the implementation of the proposed calculation methodology. To accommodate this an annual revision of the Tree Amenity Valuation on Public Trees will be undertaken to enable further improvements to be made to the calculation methodology. It shall be recommended that future refinement of the calculation methodology, and future changes to the implementation of the policy, be left to the professional discretion of Council staff.

Public tree removal in Dubbo could cost more under council plan

Orlander Ruming

Local News



Developers could be made to pay for the 'amenity value' of each tree they remove under a proposed plan by Dubbo Regional Council.

An idea will go before the council committee meetings on Monday night for an amenity value to be placed on public trees. Council has proposed the idea as another revenue stream that would go into looking after the city's trees.

In the report on the proposed idea, council's manager recreation and open space Ian McAlister said council was not financially positioned to ensure the viability of the public urban forest across the next 15 years without another revenue stream.

ALSO MAKING NEWS:

- Dubbo's juvenile justice centre detainees stage seven-hour roof stand-off
- Watch what Dubbo MP Dugald Saunders had to say in his maiden speech
- Dubbo mum named nurse of the year
- Dubbo Bike Rally 2019 will draw people from across NSW
- How an international grocery store became a community hub

The new income stream would add an amenity value to each publicly owned tree - such as the park and street trees - based on factors like its aesthetics, species and condition.

If trees were then removed as part of a development, the developer would pay the cost of removing the tree, the cost of replacing it and the amenity value. The money would go into council's tree replacement program.

"Through the application of the amenity valuation process developers and the public are still able to request the removal of public trees," Mr McAlister said in the report.

"This is important not to prevent or discourage developers from undertaking development projects within the city or members.

"It also enables the general public the opportunity to request the removal of a particular tree that may be impacting on their property or quality of life but calculates the loss of amenity, in dollar terms, to the landscape, as well as the cost of removal and the replacement of the tree back on them."

Council projects would be exempt from the costs.

Mr McAlister said decisions made today on the removal or retention of trees would have positive or negative impacts for future generations of Dubbo citizens.

LOCAL NEWS

- 1 Mud Run committee seeks to 'make a difference' for sick kids in hospital
- 2 Why Toyota Australia's senior manager of guest experience motored into Dubbo
- 3 Taking a walk in someone else's shoes
- 4 Offers of support after worker death
- 5 'My eyes lit up': Why a US MBA student is gaining career experience in Dubbo
- 6 Raft of new addictions taking over our teens?

SUMMARY

The Tree Amenity Valuation on Public Trees should be considered a first step in better valuing our public trees. The proposed methodology in the calculation of this amenity valuation will evolve over time as more information is gathered on the effectiveness of it truly determining the entire value of the tree. On the basis that the calculation methodology has this flexibility to adapt to incorporate refinement to the valuation process, it shall be recommended that the Tree Amenity Valuation on Public Trees in its current form be adopted.

Appendices:

[1](#)  Draft Council Policy - Amenity Valuation of Public Trees



COUNCIL POLICY

Public Tree Removal – Amenity Valuation

Date 22 August 2019

Council Resolution Date

Clause Number

Responsible Position Manager Recreation and Open Space

Branch Recreation and Open Space

Division Liveability

Version 1

TRIM Reference Number

Review Period Annually

Review Date

Consultation

- Street Tree Advisory Committee
- Infrastructure, Community and Recreational Committee and Council, May 2019 (ICRC19/30)
- Public Exhibition: 5th July – 2 August 2019

Document Revision History	
Description	Date
Version 1	22 August 2019
Notes	

POLICY

PURPOSE

The implementation of the Amenity Valuation of Public Trees will assist in the protection of public trees through the establishment of a value for trees which have requested to be removed by Developers, or the public. The establishment and the recouping of this value from the Developer, or member of the public, compensates the general public for the loss of amenity value that will then go back into other public tree planting programs.

Where public trees are removed, other than by Council for infrastructure projects, Dubbo Regional Council shall take the approach on passing on all of the identifiable costs associated with the removal, replacement and establishment of the tree/s.

Funds generated through the implementation of the Amenity Valuation of Public Trees framework shall be utilised in public tree replanting programs.

BACKGROUND AND RELATED LEGISLATION

Trees make a valuable contribution to the way that humans observe and interact with their environment. In the urban setting particularly trees play a significant role in the aesthetic softening of the built environment through their shape and their foliage and floral displays. It has long been recognised (eg: Neely, D. 1979 *Guide for Establishing Values of Trees and other Plants. Revision IV* and Maurer – Hoffman 1970) that this aesthetic contribution by urban trees has a value to the general public that can be calculated and potentially recouped in circumstances where trees are requested or required to be removed.

Where street and park trees are removed on the request of the public and Developers Dubbo Regional Council shall take the approach on passing on all of the identifiable costs associated with the removal and re – establishment of the tree.

SCOPE

This policy applies to all urban street and park trees in the local government area that are either owned or managed by the Dubbo Regional Council; such trees shall be referred to as public trees. (A public tree includes any tree which has any part of its trunk growing from Council managed land.)

Where Developers, or the public, approach Council requesting the removal of a public tree/s, an assessment of the tree/s will be conducted by a Level 5 Council arborist to determine the amenity value of the tree/s in accordance with the adopted methodology. The Developer, or member of public, will be required to compensate the public for the loss of amenity value prior to the removal of the tree/s.

Members of the public that request the removal of a public tree can only do so with trees that are immediately adjacent to their property, and where they are the land owner of that property.

Council currently manages over 40,000 public trees, with approximately 22,500 of these being located within our streetscapes.

In all cases, Council’s Manager Recreation and Open Space shall, within the parameters of best practice and meeting the community’s expectations, have the discretion to modify or add to any condition, practice or standard outlined within the policy.

DEFINITIONS

To assist in interpretation, the following definitions apply:

Term	Definition
Public Tree	Urban street and park trees in the local government area that are either owned or managed by the Dubbo Regional Council
Developer	A person or a company that buys land and builds houses, offices, shops, or factories on it, or buys existing buildings and makes them more modern
Land owner	A person that owns the land
Tree Amenity Value	The calculated value of a tree that recognises the contribution of a tree or trees to the landscape through a range of attributes and values.

POLICY

Where public trees are removed, other than by Council for infrastructure projects, Dubbo Regional Council shall take the approach on passing on all of the identifiable costs associated with the tree.

These costs can be summarised as:

Removal Cost + Amenity Cost + Re – instatement and Establishment = Total Charge

To determine the **Total Charge**, both the removal cost and the re–instatement and establishment costs will be based on the actual costs of undertaking the works. To determine the Amenity Cost of the tree/s to be removed, the modified version of the City of Melbourne model based on Yau’s 1990 modified Maurer-Hoffman Formula shall be used. This model takes into account a number of factors including the size of the tree (that is related somewhat to the age of the tree), the species of the tree, the aesthetic value of the tree (eg: is it a single tree, or part of an evenly planted avenue), its location (eg: whether it is a reserve, village, residential street or park) and its overall condition (eg: health, vigour, life expectancy).

The basic monetary value of the tree was taken from the internationally accepted table of values devised by the American Council of Tree and Landscape Appraisers and the International Society of Arboriculture, which in the base year 1988 was \$US27 per square inch trunk basal area. This figure was converted to a value corresponding to centimetres in trunk diameter at breast height (DBH), the Basic Monetary Value table, and updated in 2017 to reflect more current monetary values.

When young trees with a 6cm trunk diameter or less will be replaced by another tree, there will be no amenity value charge.

Amenity value shall be calculated using the formula below:

Value (V) = Basic Value (\$) x Species (S) x Aesthetics (A) x Locality (L) x Condition (C)

- The **basic monetary value** of a tree is determined by matching the trunk diameter at breast height (DBH) with its corresponding base value that is updated annually.
- The **Species value** of a tree is assessed according to its known natural life span and its rate of growth in a particular environment. For example, a long-lived tree will be scored higher than a short-lived tree.

Significant features to the tree will also modify how the tree is scored. Judgment regarding species factor is required to be made by a qualified Arborist.

- The **Aesthetics value** of a tree is determined by the impact on the landscape if the tree were removed. This category is closely tied to the locality factor (below).
- The **Locality factor** is determined by the tree's geographical situation. Trees in a major centre, main street or boulevard score highest because of the stressful growing environment in which the tree has to survive. As the location becomes more rural, the significance of the tree diminishes.
- The **tree condition value** is determined by a qualified arborist considering the condition of the trunk, growth (associated with health), and the structure of the tree and whether or not it is compromised by pests and/or disease.

RESPONSIBILITIES

Responsibility for enacting this Policy will lie with the Manager Recreation and Open Space. The valuation process will be undertaken by a qualified Level 5 arborist.



REPORT: Tree Report 4 Wheeler Street

AUTHOR: Lead Arborist
REPORT DATE: 4 September 2019
TRIM REFERENCE: ID19/1276

EXECUTIVE SUMMARY

The resident is concerned about the roots of a street tree and suspected property damage.

Condition of tree

The tree is considered to be in poor condition, with poor structure (Claret Ash).

Issues Presented

The tree has roots lifting the resident's driveway, this is causing a potential trip hazard for the elderly residents as well.

The tree root has travelled underneath the driveway, and has extended into the neighbour's garden.

Claret Ash are renowned for their invasive root systems. They are not considered a suitable street tree by contemporary standards (see attached photos).

FINANCIAL IMPLICATIONS

The cost for removal and replacement of the tree would be approximately \$1,000.

POLICY IMPLICATIONS

There are no policy implications arising from this report.

RECOMMENDATION

That the tree be removed and replaced with another tree species according to the Street Tree Masterplan (*Geijera parvifolia* - Wilga).

Warren Gawthorne
Lead Arborist

REPORT

Situation

The resident is concerned about the roots and resulting property damage.

The Tree

Council's Lead Arborist has inspected the tree and impacted area at 4 Wheeler Street, Dubbo.

The tree is a small mature Claret Ash (*Fraxinus angustifolia* - 'Raywood')

The dimensions of the tree are as follows:

- Height – 7 metres
- Crown Spread – 4.5 metres
- Diameter Breast Height (DBH) – 26cm at 1.1 metres from ground level.

The tree is situated in the Council footpath approximately 0.7 metres east of the kerb and gutter, and approximately 3.5 metres north of the property driveway.

Condition

The tree is considered to be in poor condition, with poor structure.

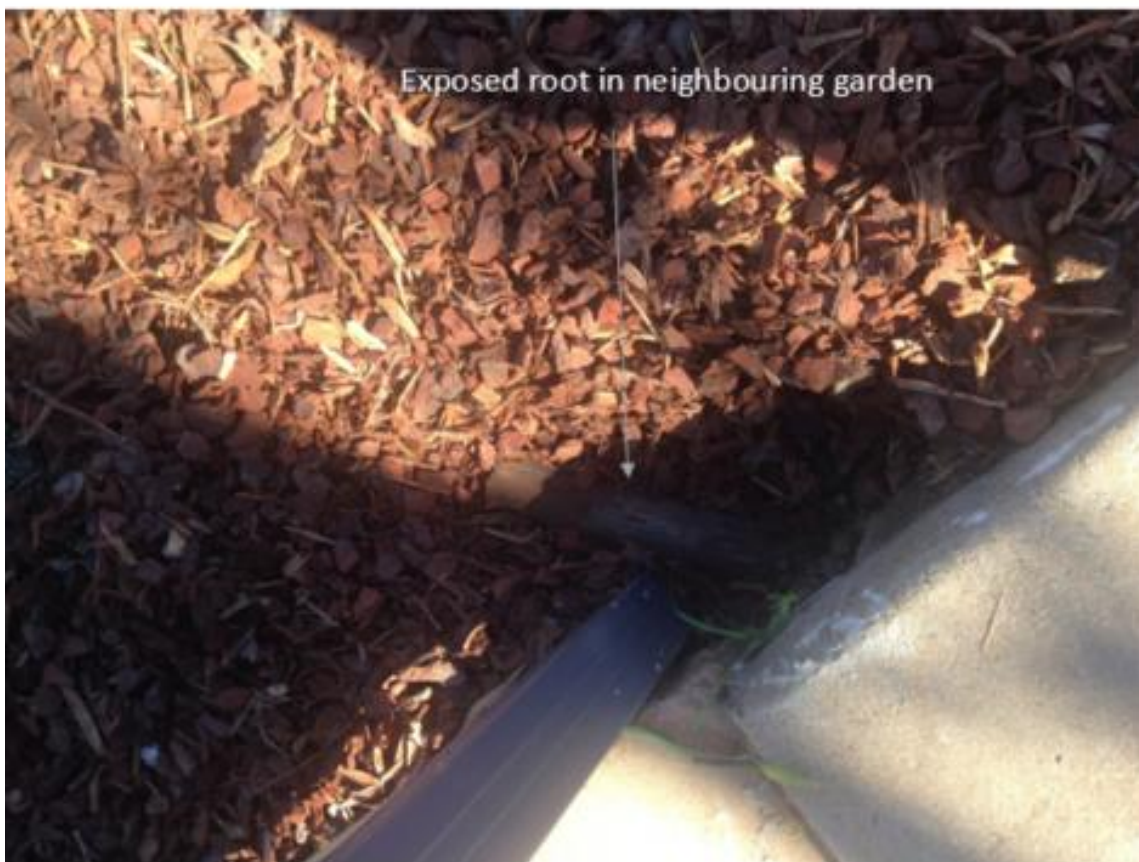
Issues Presented

The tree has roots lifting the residents' driveway, this is causing a potential trip hazard for the elderly residents as well.

The tree root has travelled underneath the driveway, and has extended into the neighbour's garden.

Claret Ash are renowned for their invasive root systems. They are not considered a suitable street tree by contemporary standards (see attached photos).





Suggested species from the Street Tree Masterplan



DUBBO REGIONAL
COUNCIL

REPORT: Tree Report 66 Lime Street, Geurie

AUTHOR: Lead Arborist
REPORT DATE: 4 September 2019
TRIM REFERENCE: ID19/1277

EXECUTIVE SUMMARY

The resident is concerned about the exposed roots of a Council street tree on the grounds of safety and possible property damage.

Condition of tree

The tree is a Claret Ash, considered to be in good condition.

Issues Presented

The tree has a considerable amount of large diameter exposed roots, the largest being approximately 20cm, these are of concern regarding trip hazards and safety.

Claret Ash are renowned for their invasive root systems. They are not considered a suitable street tree by contemporary standards.

FINANCIAL IMPLICATIONS

The cost for removal and replacement of the tree would be approximately \$2000.

POLICY IMPLICATIONS

There are no policy implications arising from this report.

RECOMMENDATION

1. That the tree be removed and replaced with a more appropriate tree species.
2. That the Manager Recreation and Open Spaces recommend to the Manager Operations a suitable replacement species.

Warren Gawthorne
Lead Arborist

REPORT

Situation

The resident is concerned about the exposed roots for safety and possible property damage.

The Tree

The Lead Arborist has inspected the site and adjacent tree at 66 Lime Street Geurie.

The tree is a mature Claret Ash (*Fraxinus angustifolia* - 'Raywood')

The dimensions of the tree are as follows:

- Height – 15 metres
- Crown Spread – 14 metres
- Diameter Breast Height (DBH) – 46.5 cm

The tree is situated in the Council footpath approximately 1.7 metres north of the kerb and gutter, and approximately 2.2metres south of the property retaining wall.

Condition

The tree is considered to be in good condition.

Issues Presented

The tree has a considerable amount of large diameter exposed roots, the largest being approximately 20cm. These are of concern regarding trip hazards and safety. The residents have tripped over the tree roots on previous occasions.

To remove these roots while attempting to keep the tree in situ would be detrimental to the tree's health and stability, and not in accordance with the Australian Standard Protection of Trees on Development Sites (AS-4970-2009).

It is therefore recommended that the tree be removed and replaced with another tree species to be determined as Geurie is not included in the Street Tree Masterplan.

