

# State of Our Council Infrastructure Assets Report 2022

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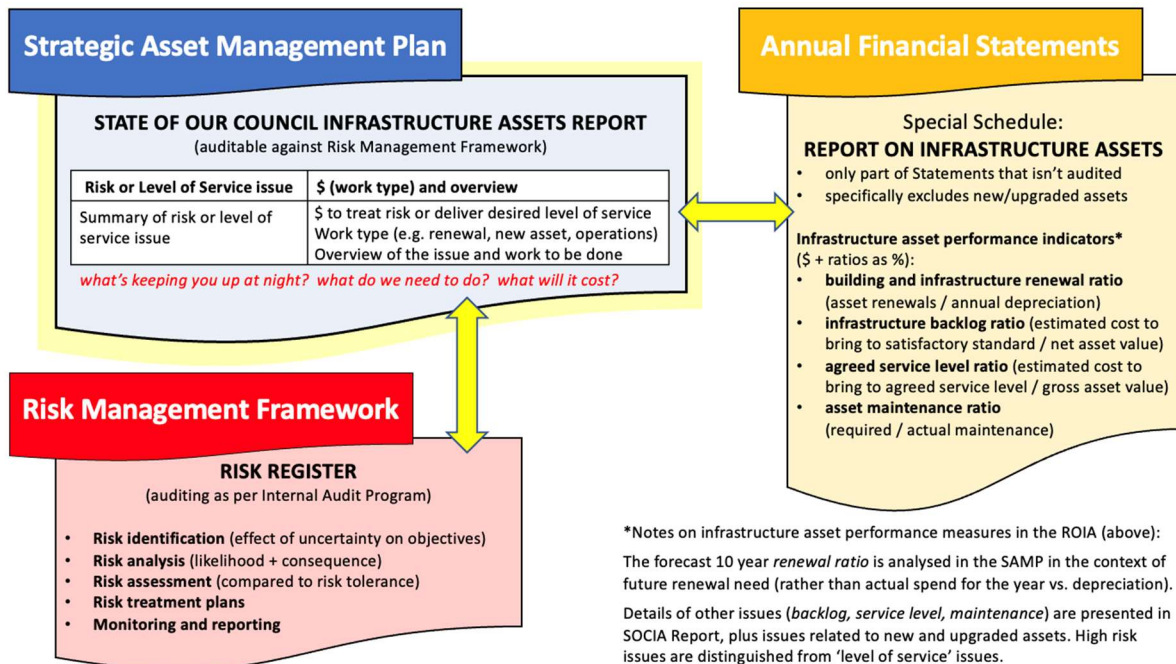
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# 1. Introduction

This State of Our Council Infrastructure Assets (SOCIA) Report is intended to integrate several mandatory requirements of Council in a simple, big picture view of the state of Council's infrastructure and other assets.

It provides a summary of the current situation of council's assets based on a risk assessment approach. This document informs the Strategic Asset Management Plan and the report on infrastructure assets contained the annual financial statements.



It is intended to spark a conversation about Council's next budget and support the need for the Special Rate Variation. For high-risk issues, this can be thought of in terms of 2 questions to Councillors and staff:

- *what's keeping you up at night?* and
- *what do we need to do about it?*

## 1.1. Mandatory Reporting on Infrastructure in Annual Financial Statements

This SOCIA Report supplements the Report on Infrastructure Assets (ROIA), a mandatory schedule in Council's Annual Financial Statements that quantifies 'issues' with assets in terms of *dollar value*. Council's performance is then evaluated against several performance indicators.

However there is no requirement to identify *what the issues are* (e.g. specific work needed) or, critically, to identify works involving building *new or upgraded assets* or to distinguish:

- *high risk issues* (outside Council's risk tolerance, in its Risk Management Framework) and
- *level of service issues* Council aspires to address (but can't afford to with funds available).

The ROIA is the only part of the Financial Statements that isn't audited, so there is no formal evaluation or assurance as to its accuracy.

## 1.2. Mandatory Risk Management Framework

Under the draft Internal Audit and Risk Management Guidelines, General Managers will be required, from 2024, to attest in the Annual Report that:

- the Council has adopted a Risk Management Framework that complies with the relevant Australian Standard and is appropriate to the organisation's risks
- Council's Audit, Risk and Improvement Committee reviews the implementation of the Framework and issues a *strategic assessment of the effectiveness* of it each council term
- Council has an *internal audit* function that provides an independent unbiased assessment of the Council's operations and risk and control activities.

Many of Council's most significant risks relate to its infrastructure assets and its ability to fund the responsible and sustainable management of these functions (e.g., water supply network, sewerage network and Transport).

## 1.3. Mandatory Requirements for the 'Asset Management Strategy'

Under the Integrated Planning and Reporting Guidelines councils are required to identify assets that are critical to the council's operations and outline risk management strategies for these in their Asset Management Strategy (which, for Federation Council, is its Strategic Asset Management Plan).

To align with the Risk Management Framework Council will identify 'risks' and 'treatment plans' (rather than 'critical assets' and 'risk management strategies').

Besides terminology, the difference between this and the ROIA is that Council must identify risks that are *already* being managed as well as those that are unfunded (which is the focus of the ROIA).

Rather than addressing this requirement in the Strategic Asset Management Plan (SAMP), Council has developed this SOCIA Report as a stand-alone document supporting the SAMP.

## 1.4. Purpose of this State of Our Council Infrastructure Assets Report

**This SOCIA Report aims to integrate all the related issues identified above in a 'big picture' view** as shown in the figure above. It identifies:

- major asset-related *risks* related to infrastructure and other physical assets (buildings, plant) including risks associated with the financial sustainability of water and sewer funds
- *level of service issues* that aren't high risk, but Council may wish to address
- *cost estimate* of work required to treat the risk or improve service levels (particularly if funds aren't currently allocated), corresponding where relevant to dollar values in ROIA and
- *work type* classification corresponding where relevant (for capital renewal and operations and maintenance, but not new/upgraded assets) to the categories in the ROIA.

This SOCIA Report is intentionally brief and focused on the current situation.

## 1.5. Relationship to the Strategic Asset Management Plan

Council's Strategic Asset Management Plan (SAMP) is where Council defines its *strategic direction* (where Council wants to be, considering the current situation) and objectives to keep it on track.

While this SOCIA Report identifies the cost of work required to bring all assets to a satisfactory standard the SAMP outlines council's limited financial capacity and utilising a risk management approach and prioritises the assets that

can be brought to a satisfactory standard. The SAMP includes financial forecasts for capital works generally over the next 10 years.

It also includes a meaningful analysis of the *renewal ratio* (a performance measure in the ROIA alongside the backlog, agreed level of service and maintenance ratios considered here), evaluating the adequacy of forecast renewals based on need not matching annual depreciation.

## 1.6. Potential for Auditing in Future

The SOCIA Report is intended to be *auditable* against Council's Risk Management Framework although further work will be required to facilitate this (e.g., documentation of risk assessments, evidence of work required and cost estimates, etc. but these aren't included here to avoid excessive detail and keep this as a 'big picture' view of the key issues for Council to consider).

Council, through the Audit, Risk and Improvement Committee, will consider the value of auditing this information as part of its internal audit program in future years.

Appendices 1-3 include basic evidence of the working out behind the values reported for roads. Further appendices may be included in future years, or these could simply remain as 'operational working documents' to facilitate auditing under the Internal Audit program.



## 2. Structure of this Report and Categorisation of Issues

This State of Our Council Infrastructure Assets (SOCIA) Report is intended to integrate several mandatory requirements of Council in a simple, big picture view of the state of Council's infrastructure and other assets.

This report arranges issues based on *asset class* (e.g. transport) and *category* (e.g. sealed roads). This aligns with the structure of the ROIA to make it easier to see what the issues are behind the dollar values reported in the ROIA. For additional information regarding linkages to Financial Statements please refer to appendix 4.

When categorising issues by work type, a distinction is made between:

- issues related to **risks** that are outside Council's risk tolerance or appetite as determined under its Risk Management Framework ('have to do' issues) and
- issues primarily required to improve the **level of service** Council delivers ('nice to do').

It is important to note that generally the risk assessment is based upon the risk of the asset deteriorating further resulting in a more costly expensive renewal or repair than would otherwise be the case.

ROIA class	Work Type	Work description	Risk or LoS?	Scope	Examples
O&M	Operations and maintenance	<i>Required maintenance</i>	Risk based approach	Operations: activities to perform asset-related functions not including maintenance Maintenance: activities to <i>retain</i> an asset in serviceable condition	Treatment plant operations, inspections, planning, policy Pothole patching, asset repairs, mowing, clearing a blocked pipe
CR-B	Capital renewal – backlog	<i>Cost to bring to satisfactory standard</i>	Risk based approach	Renewal: activities to <i>restore</i> an asset to serviceable condition Focused on activities to treat risks that are outside Council's risk tolerance	Resurfacing a road, replacing a roof, relining a pipe, refurbishing mechanical and electrical equipment
CR-L	Capital renewal – level of service	<i>Cost to bring to agreed level of service</i>	Level of service	Renewal: activities to <i>restore</i> an asset to serviceable condition Activities aimed at delivering a better level of service rather than treating an 'unacceptable' risk	Reconstructing a road where the pavement has failed to improve ride quality, refurbishing a public toilet to improve presentation
CNU	Capital new or upgraded asset	<i>Excluded from ROIA</i>	Level of service change aligned with risk based approach	Provision of a new or upgraded asset (compared to the current one).	Widening a road, installing a new drainage pipeline, constructing a new reservoir

## 3. State of Infrastructure Assets by asset class

### 3.1. Transport

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
<b>TRANSPORT</b>				
<b>SEALED LOCAL ROADS</b>				
Insufficient reseals leads to premature pavement failures (for roads at high risk of failure – higher traffic roads or poor condition pavements)	High	\$8.5M	Capital renewal – backlog (CR-B)	Re-establish a waterproof surface by ‘resealing’ 156km of roads to prevent (further) costly premature failure of underlying gravel pavements. Includes an allowance for heavy patching of isolated failures within reseal areas.  The list of specific roads is in Appendix 1, with the majority in rural areas. The data is based on an inspection of the road network in 2020. There has been prolonged wet weather and 2 natural disaster declarations (floods) since this inspection, so some roads identified as needing reseal now need reconstruction. New inspection to be done in 2023.
Insufficient reseals leads to premature pavement failures (for roads at medium risk of failure)	Medium	\$2.9M	Capital renewal – improve level of service (CR-L)	But this figure gives an indication of the scale of the issue: there is only around \$2.5M p.a. available to fund this work (without extra funds from the Special Rate Variation), so this represents 5+ years’ worth. Another \$2M+ (extra reseals and heavy patching) is added to the list annually as assets deteriorate with age.
Edge drops; poor drainage leads to premature failures	Medium	\$0.5M p.a.	Operations and maintenance (O&M)	Ongoing program to grade shoulders, clear table drains and clear and repair culverts (pipe drains across rural roads).  This work has not been prioritised in the past. It will make roads safer (address edge drop offs) and reduce premature failure of pavements by draining water away from pavements.
Failed pavements (lower LoS)		\$6.8M	Capital renewal – improve level of service (CR-L)	Reconstruct 20km of failed pavements that are past the point where they can be resealed (see Appendix 1 for list of specific roads).  As for reseals, this data is from 2020 and understates the real figure now (new inspection to be done). Grants are being pursued to help fund this work, including natural disaster grants and road upgrade programs.
Narrow pavements (lower LoS)		Assessment to be undertaken	Capital new or upgraded asset (CNU)	Undertake upgrades, primarily shoulder widening, but also road safety improvements. Council may pursue grants for such works with: (1) rehabilitating existing pavements being given top priority (widening is most efficient when done in conjunction with pavement rehabilitation) and

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
				(2) a prioritised list adopted by Council to guide grant applications.
<b>UNSEALED LOCAL ROADS</b>				
Insufficient gravel cover prevents all weather access (lower LoS)	High	\$5.9M	Capital renewal – backlog (CR-B) and Capital renewal – improve level of service (CR-L)	<p>Re-sheet (add gravel) to 168km of unsealed roads (16% of 999km total). Work is only 'high risk' if it prevents all weather access.</p> <p>This figure is based on a condition assessment from 2020 (which needs updating) and includes an allowance to clear table drains at the same time.</p> <p>The recent natural disasters have increased the length of roads needing work. Council will get some grant support to repair these. Performance of the network following wet weather suggests much of the network has minimal gravel coverage (there were problems with access in wet weather on many roads).</p> <p>Current budget (\$0.8M p.a.) is only sufficient to resheet 23km of the 999km network (2.2% of all roads, or each road every 45 years).</p>
Formation widening or sealing (lower LoS)		Assessment to be undertaken	Capital new or upgraded asset (CNU)	Sections of high traffic roads where formation should be widened needs to be quantified. Note: no extension of seals proposed given the extent of challenges on sealed roads above.
<b>REGIONAL ROADS</b>				
Insufficient reseals leads to premature pavement failures	High	\$0.9M	Capital renewal – backlog (CR-B)	<p>Reseal 23km (based on an inspection in 2020), not including heavy patching to fix isolated failures ahead of this. List is in Appendix 1.</p> <p>An updated condition assessment will be undertaken this year.</p> <p>Council receives \$1.4M p.a. for reseals and pavement reconstruction on regional roads (below) from NSW government, after allowing for maintenance works.</p>
Failed pavements (lower LoS)		\$2.5M	Capital renewal – improve level of service (CR-L)	Rehabilitate 7km of failed pavements (based on 2020 condition assessment). This figure is likely to understate the real figure due to additional failures from wet weather. Grants are being pursued to help fund this work.
Narrow pavements (lower LoS)		Assessment to be undertaken	Capital new or upgraded asset (CNU)	Undertake upgrades, primarily shoulder widening, but also road safety improvements. Grants are being pursued.
<b>BRIDGES AND MAJOR CULVERTS</b>				
Structural failure or load limits (lower LoS)	High	\$11.5M	Capital renewal – backlog (CR-B) and Capital new or upgraded asset (CNU)	Funds needed to renew 7 concrete structures in poor condition. While they are not yet load limited, they will need to be within the next few years. Grants are being pursued to help fund this work, but the focus of grant programs at present is timber bridges.



Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
Structural issue leads to bridge failure		\$20k p.a.	Operations and maintenance (O&M)	For visual assessment of bridges.
<b>FOOTPATHS</b>				
Poor condition (lower LoS)		\$350k	Capital renewal – improve level of service (CR-L)	2.75km of paths assessed as being in poor or very poor condition. Some problems can be addressed by maintenance budgets, however others may require capital renewal.
Narrow or missing paths (lower LoS)		Assessment to be undertaken	Capital new or upgraded asset (CNU)	Works identified in the Pedestrian Access and Mobility Plan. Grants are being pursued for these works as they arise.
<b>KERB AND GUTTER</b>				
Poor condition (lower LoS)		\$1.6M	Capital renewal – improve level of service (CR-L) and Operations and maintenance (O&M)	Estimate of funds required for repairs to failed sections of kerb (around 8km in total length). The work will be a mix of repairs (O&M) and renewals (CR-L).
Missing kerb (lower LoS)		-	Capital new or upgraded asset (CNU)	There are a lot of streets without kerb and gutter, particularly in the villages. Given other priorities, Council doesn't intend to pursue this work.
<b>ALL TRANSPORT ASSETS</b>				
Defective asset results in personal injury or property damage			Operations and maintenance (O&M)	Council has an inspection program in place (documented in the Road Maintenance Management Plan) and prioritises response to defects based on risk (within its available resources). Council also responds to requests from the community.  Service levels provided are limited by funding (priorities across Council's functions are subject to ongoing review as part of the Delivery Program), but current budgets are considered adequate to manage risks to a reasonable standard for all road users.  The NSW Civil Liability Act 2002 establishes protections for council against public liability claims associated with personal or property damage within the context of this approach.

### 3.2. Urban Stormwater Drainage

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
<b>URBAN STORMWATER DRAINAGE</b>				
Pumping station condition	High	\$450k	Capital renewal – backlog (CR-B)	Replace pumps, switchboards and other electricals plus augment rising mains at 9 of the 13 pumping stations to restore them to normal operations, improve reliability and reduce the risk of flooding. There is a high likelihood of houses flooding in a larger storm event.
Pumping station capacity (immediate)	High	\$365k	Capital new or upgraded asset (CNU)	Upgrades to stormwater pumping stations (Savage St Mulwala, Sophia St and Hammersley Rd Corowa) to reduce the risk of local flooding. These are the stations with highest risk of flooding houses.
Unknown asset condition	High	\$250k	Operations and maintenance (O&M)	Funds estimated to be required to undertake CCTV inspections of the network to verify pipe size, materials and condition and so to proactively identify pipes needing repairs (under maintenance, budgeted here) or renewal.
Limited network capacity information	Medium	\$300k	Operations and maintenance (O&M)	Develop localised network capacity report (mainly in Corowa, but also some of Mulwala and Howlong) to identify and prioritise works required (e.g., clearing open drains, increasing capacity of pipe networks, increasing capacity of stormwater pumps and/or high level flow paths, constructing levees, etc.) to alleviate localised flooding problems.
Pumping stn. capacity (longer term)	Medium	\$500k p.a.	Capital new or upgraded asset (CNU)	For 10 years (estimated, subject to capacity report) to upgrade pumping stations from current 1 in 5 year design to 1 in 20 year design. Construct high level flood path in the event of pump station failure.
Need for flood levy at Urana	Medium	\$1.2M	Capital new or upgraded asset (CNU)	As identified in Urana Flood Study. Funding current being sought for design, then grants will be pursued for construction.
Basins and drains not maintained	Medium	\$2.5M	Capital renewal – backlog (CR-B)	One off to clear ‘backlog’ then annual maintenance for periodic clearing of detention basins, constructed wetlands and open drains to clear blockages and ensure they operate in storm events.
		\$100k p.a.	Operations and maintenance (O&M)	
Poor condition pipes		\$100k p.a.	Capital renewal – backlog (CR-B) or Capital renewal – improve level of service (CR-L)	Estimate only. Renewal needs, and associated risks, will be determined by the CCTV inspection (above). Proactive is better than waiting for failure.

### 3.3. Buildings and Facilities

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
<b>BUILDINGS AND FACILITIES</b>				
Corowa landfill closure	High	Assessment to be undertaken	Capital new or upgraded asset (CNU)	Corowa landfill is towards the end of its useful life. When adopted, the Waste Management Strategy will determine future renewal needs.
Compliance and safety for building users	High	Assessment to be undertaken		Council has developed an asbestos management plan for its buildings. It also has arrangements in place to satisfy requirements for electrical safety, fire safety, etc.  Not all buildings meet modern disability access requirements. Grants to be sought to progress priority works.
Meeting user needs and expectations (lower LoS)		Assessment to be undertaken		While Council's 385 buildings and structures are generally functional and sound, most are ageing. There is a need to review the portfolio, dispose or demolish buildings with little use or where there are alternative facilities available, and invest Council's limited funds in those buildings that are valued by the community (to be guided by masterplans for facilities, where available). Prioritised program to be developed.
Defective asset results in injury or damage			Operations and maintenance (O&M)	Council has a reactive inspection program in place and prioritises response to defects based on risk (within its available resources). Where possible Council also responds to requests from the community.  Service levels provided are limited by funding (priorities across Council's functions are subject to ongoing review as part of the Delivery Program), but current budgets are considered adequate to manage risks to a reasonable standard for users.  The NSW Civil Liability Act 2002 establishes protections for council against public liability claims associated with personal or property damage within the context of this approach.
Corowa Aerodrome		Assessment to be undertaken	Capital new or upgraded asset (CNU)	CASA requirements met to maintain license.

### 3.4. Water Supply

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
<b>WATER SUPPLY</b>				
Inadequate supply and pressure in Howlong	High	\$2.15M	Capital new or upgraded asset (CNU)	Supply and pressure in Howlong is less than minimum standards for firefighting (under Building Code of Australia). New assets to fix issues are included in the 2023 budget: <ul style="list-style-type: none"> <li>Dedicated 375mm pipe from Water Plant to reservoir \$1.55M</li> </ul> Duplication of 200mm ring main with 375mm trunk main \$0.6M
Reservoir maintenance and renewal at Howlong	High	\$0.45M  \$1.35M	Capital renewal – backlog (CR-B)  Capital new or upgraded asset (CNU)	Existing reservoir needs refurbishment of steel work + relining + corrosion protection.  A second reservoir needs to be built to enable the existing one to be taken off line for around 6 months to undertake the works. Both projects are included in the 2023 budget.
Financial sustainability of water fund	High			Council does not have sufficient funds or borrowing capacity to finance works required over the next 20 years to meet demand from current customers and forecast development (in particular, replacement and upgrade of all 3 water treatment plants and provision of considerable additional pipelines to supply new development areas). It is considered unlikely that Council will be able to secure grants for many of these projects either.  Council needs to prepare a 30 year financial and asset plan that identifies how funds for these works will be generated (via increased charges, loans, etc.).
Security, supply and pressure generally	Medium	Assessment to be undertaken	Capital new or upgraded asset (CNU)	The capacity of existing water treatment plants will be exhausted within 10 years in Mulwala and Howlong, and within 17 years in Corowa; cost estimates for these works are \$36M, \$14M and \$6M respectively (including full renewal of Mulwala).  A further \$10M is estimated to be needed for upgrades to pipelines to provide the minimum standards of supply and pressure; existing water licences are also insufficient to cater for future demand.  Council will need to purchase additional water licenses to meet future demand.  Network analysis is being prepared.  Mulwala: earmarked for preferred route between Mulwala and Yarrawonga; Federally significant

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
				supply for munitions factory. Safe and secure funding risk level 4 (60% funding – but to be reviewed).
Reliability		Included in existing budget		<p>Council has telemetry and SCADA (system control and data acquisition) to monitor system operations and send alarms if required.</p> <p>Council has maintenance and renewal programs in place to provide assurance of the reliability of the water supply and minimise interruptions.</p> <p>Funding is allocated in the Long Term Financial Plan for ongoing renewal of telemetry, switchboards, pumps, etc.</p>

### 3.5. Sewerage

Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
<b>SEWERAGE</b>				
Howlong capacity renewal STP +	High	\$0.5M (concept design)  \$4.5M construction	Operations and maintenance (O&M)  Capital new or upgraded asset (CNU)	Inflows to sewage treatment plant exceed its design capacity and EPA licence conditions.  Grants to be sought, but Council may need to fund the project itself.  The existing STP needs renewal within 10 years at a cost of \$10M.
Corowa capacity renewal STP +	High	\$0.5M (concept design)  \$20M construction	Operations and maintenance (O&M)  Capital renewal – backlog (CR-B) and Capital new or upgraded asset (CNU)	The sewage treatment plant is near the end of its operational life. It is a priority project by Council staff and DPE Water.  Grants to be sought, and Council will need to generate adequate funds to ensure that these assets can be renewed when required.
Improvement at all STPs		\$1.4M	Capital renewal – backlog (CR-B) and Capital new or upgraded asset (CNU)	Various minor works at Corowa, Howlong and Mulwala STPs. Budgeted in 2023-4.
Lids on SPS			Capital new or upgraded asset (CNU)	Replacement of lids for sewage pumping stations as required.
Vent stacks			Capital new or upgraded asset (CNU)	Inspection and replacement of vent stacks as required.
Sewer pipe CCTV + relining		\$0.1M p.a. (CCTV)  \$0.2M p.a.	Operations and maintenance (O&M)  Capital new or upgraded asset (CNU)	CCTV program to identify pipes requiring relining to minimise risk of blockages and/or pipe collapse, annual estimate of upgraded assets required. Budget is included in Long Term Financial Plan.
Network capacity modelling		\$175k (Modelling)	Operations and	Modelling to determine capacity of sewerage systems in Corowa, Howlong and Mulwala.



Risk	Assessed risk	Cost estimate	Work type	Risk treatment/action to improve service level
		Assessment to be undertaken (Upgrade program)	maintenance (O&M)  Capital new or upgraded asset (CNU)	Knowledge of the existing systems is limited and requires further investigation.  This will inform the program to upgrade the network to address issues with pump stations arrangements, with many small stations in a chain, and capacity to cater for future development.
Reliability				Council has telemetry and SCADA (system control and data acquisition) to monitor system operations and send alarms if required.  Council has maintenance and renewal programs in place to provide assurance of the reliability of the water supply and minimise interruptions.  Funding is allocated in the Long Term Financial Plan for ongoing renewal of telemetry, switchboards, pumps, etc. as well as provision of backup generators at STPs and SPSSs.
Exposure to recycled effluent				Council has developed a Recycled Water Management Plan for the reuse of effluent from the Corowa Sewage Treatment Plant.
Minimising environmental impact				Council has operational procedures in place, as well as telemetry to send alarms as required, for STP and SPS operation.  Council has emergency procedures and resources available to respond to sewage overflows (e.g. blocked mains from 'chokes').  Pollution Incident Response Management Plan developed as per EPA requirements.
Infiltration analysis		\$20k p.a.	Operations and maintenance (O&M)	Quantify infiltration issues in all five facilities – high volume of flows in wet weather adds to problems at STPs and risks of overflows.
Managing liquid trade waste				Council has statutory obligations to manage liquid trade wastes entering its sewerage system and needs to do so in order to reduce asset degradation.

# Appendix 1: List of Identified Works on Sealed Local Roads - Rural

Federation Council State of our Rural Local Road Network <i>*refer notes at bottom of page</i>			High priority 'backlog' (pavement at high risk of failure, poor seal not protecting it)		Medium priority 'backlog' (pavement condition OK for now but poor seal not protecting it)		Level of service issues (pavement has already failed, full road needs rehabilitation)	
Indicative cost (\$/km):			\$125,000		\$33,000		\$270,000	
Indicative work required:			Heavy patch failed areas (assume 40% of pavement) + full reseal		Full reseal		Full pavement rehabilitation	
Reported in 'State of Assets' Report as the cost to:			Bring to satisfactory + bring to agreed level of service		Bring to satisfactory + bring to agreed level of service		Bring to agreed level of service	
Road name	Community	Length (km)	Length	Cost	Length	Cost	Length	Cost
Answerth Dr, OAKLANDS	Council	1.6		\$ -	1.6	\$ 54,219		\$ -
Balldale-Coreen Rd	Council	9.2		\$ -		\$ -		\$ -
Boree Creek Rd	Council	34.8		\$ -		\$ -		\$ -
Brocklesby-Balldale Rd	Council	2.4		\$ -		\$ -		\$ -
Bull Plain Rd	Council	31.9		\$ -	1.6	\$ 51,471		\$ -
Clear Hills Rd	Council	13.7		\$ -		\$ -		\$ -
Hopefield Rd	Council	17.9		\$ -		\$ -		\$ -
Howlong-Balldale Rd	Council	5.9		\$ -		\$ -		\$ -
Howlong-Burrumbuttock Rd	Council	3.2		\$ -		\$ -		\$ -
Narrow Plains Rd	Council	13.4		\$ -	2.6	\$ 87,242		\$ -
Norwonga Rd	Council	2.6		\$ -		\$ -		\$ -
Oak Lodge Rd	Council	9.1		\$ -		\$ -		\$ -
Oil-Tree Lagoon Rd	Council	5.4		\$ -	1.2	\$ 39,486		\$ -
Redlands Rd	Council	32.7	2.0	\$ 245,953	0.2	\$ 5,132		\$ -
Walbundrie Rd	Council	4.0		\$ -		\$ -		\$ -
<b>ARTERIAL SUBTOTAL</b>			<b>187.8</b>	<b>2.0</b>	<b>\$ 245,953</b>	<b>7.2</b>	<b>\$ 237,549</b>	<b>-</b>
Back Berrigan Rd	Council	21.3		\$ -	10.1	\$ 332,999		\$ -
Balldale Rd	Council	13.1	8.0	\$ 1,003,366	1.4	\$ 45,750	3.7	\$ 1,001,700
Bidgeemia Rd	Council	4.5		\$ -		\$ -		\$ -
Brookong Creek Rd	Council	9.3		\$ -		\$ -		\$ -
Bulgandra Rd	Council	1.5		\$ -		\$ -		\$ -
Byrnedale Rd	Council	26.4		\$ -		\$ -		\$ -
Drummond St, BOREE CREEK	Council	1.1		\$ -		\$ -		\$ -
Ferndale Rd	Council	10.1		\$ -		\$ -		\$ -
Five Mile Rd	Council	7.9	7.9	\$ 991,250		\$ -		\$ -
Four Corners Rd	Council	1.7		\$ -		\$ -		\$ -
Greenvale Rd	Council	18.5	4.3	\$ 543,325	12.5	\$ 413,845		\$ -
Howlong-Goombargana Rd	Council	8.7		\$ -	8.7	\$ 286,077		\$ -
Koorngal Rd	Council	16.1	10.6	\$ 1,321,149	1.7	\$ 57,295	1.2	\$ 332,100
Mahonga La	Council	9.7	5.2	\$ 652,236		\$ -		\$ -
Merton Rd	Council	20.8	2.6	\$ 329,481	5.4	\$ 176,566		\$ -
Mulwala Rd	Council	4.8		\$ -		\$ -		\$ -
Ormes Rd	Council	1.9		\$ -		\$ -		\$ -
Rennie Rd	Council	11.1	1.6	\$ 194,746		\$ -	1.8	\$ 491,400
Sandigo Rd	Council	9.0		\$ -		\$ -		\$ -
Savernake Rd	Council	27.7		\$ -	2.4	\$ 77,920	0.2	\$ 40,500
Strontian Rd	Council	17.4		\$ -	2.7	\$ 90,718		\$ -
Tom Roberts Rd	Council	1.0		\$ -		\$ -		\$ -
Wandong Rd	Council	9.7	4.3	\$ 538,288	5.4	\$ 177,167		\$ -
<b>COLLECTOR SUBTOTAL</b>			<b>253.4</b>	<b>44.6</b>	<b>\$ 5,573,841</b>	<b>50.3</b>	<b>\$ 1,658,336</b>	<b>6.9</b>
Ambleside Rd	Council	3.9		\$ -		\$ -		\$ -
Back Morundah Rd	Council	1.6		\$ -		\$ -		\$ -
Boat Rock Rd	Council	15.7	3.0	\$ 373,899	3.3	\$ 109,996	3.5	\$ 950,400
Buckingbong Rd	Council	5.3		\$ -	5.3	\$ 174,900		\$ -
Bullecourt Rd	Council	1.2		\$ -		\$ -	0.5	\$ 134,190
Buraja Rd	Council	11.1	4.1	\$ 511,539	2.3	\$ 77,159		\$ -
Cemetery Rd, OAKLANDS	Council	0.3		\$ -	0.3	\$ 11,484		\$ -
Coreen School Rd	Council	0.2	0.2	\$ 21,069		\$ -		\$ -
Cullivel Rd	Council	11.3		\$ -	5.8	\$ 191,169		\$ -
Drain La	Council	9.9	1.1	\$ 140,470	4.4	\$ 143,786		\$ -
Drew La	Council	2.8		\$ -		\$ -		\$ -
Emu Park Rd	Council	28.0	9.6	\$ 1,199,131	7.1	\$ 234,557	3.4	\$ 910,440
Freyers Rd	Council	7.4		\$ -		\$ -		\$ -
Geo Way Rd	Council	0.1		\$ -		\$ -		\$ -
Hopefield Siding Rd	Council	3.7		\$ -		\$ -		\$ -
Hudsons Rd	Council	2.7		\$ -		\$ -		\$ -
Humeden Rd	Council	9.6		\$ -	0.2	\$ 7,947		\$ -
Izons Rd	Council	7.6	2.6	\$ 327,304		\$ -	4.9	\$ 1,333,260
Kyffins Reserve Rd	Council	2.5		\$ -		\$ -		\$ -
Lake Rd	Council	2.2		\$ -		\$ -		\$ -
Lavis Rd	Council	0.1		\$ -		\$ -		\$ -
McCurdies La	Council	4.9		\$ -		\$ -		\$ -
Skehans La	Council	2.3	1.1	\$ 139,279		\$ -	1.2	\$ 322,650
Sloane Siding Rd	Council	5.7		\$ -	1.6	\$ 52,472		\$ -
Spraydon Rd	Council	0.2		\$ -		\$ -		\$ -
Wangamong Rd	Council	0.4		\$ -		\$ -		\$ -
Western Rd	Council	1.8		\$ -		\$ -		\$ -
Corona Rd	Council	1.3		\$ -		\$ -		\$ -
Hills Rd, MULWALA	Council	0.1		\$ -		\$ -		\$ -
<b>LOCAL ACCESS SUBTOTAL</b>			<b>143.9</b>	<b>21.7</b>	<b>\$ 2,712,690</b>	<b>30.4</b>	<b>\$ 1,003,470</b>	<b>13.5</b>
<b>TOTAL RURAL LOCAL:</b>			<b>585.1</b>	<b>68.3</b>	<b>\$ 8,532,484</b>	<b>87.9</b>	<b>\$ 2,899,355</b>	<b>20.4</b>
<b>Consequence of not doing smaller scope of work (if full rehab required):</b>					<b>\$ 18,430,165</b>		<b>\$ 23,721,998</b>	
<i>Please note: the above information is based on inspections undertaken in 2020. The condition of Council's roads has deteriorated since this time due to prolonged wet weather. This list of works and classification of sections of road between the options is indicative only, giving all stakeholders an overview of the scale of the challenges Council is facing across its road network, as well as reinforcing the importance of prioritising the limited funds available. While road users no doubt see 'level of service' issues (failed pavements, right hand column) as top priority, it is critical that Council invests in resealing (centre column) to avoid the pavements on these roads failing prematurely, which will place the road into the left or right column (where the cost of works is 4 to 8 times more - see "consequences" in red at bottom of table). It is important to note that priorities are more complex than indicated by the 3 columns above (e.g. Council needs to prioritise funds toward roads carrying more traffic - arterial and collector - over local access). Actual priorities will be determined by Council in its annual capital works program (in the Operational Plan). Council also recognises it needs to keep all roads as safe as possible with the limited funds it has available.</i>								

## Appendix 2: List of Identified Works on Sealed Local Roads - Urban

Federation Council: state of our sealed urban streets network, 157km total length (\*refer notes at bottom of page)

Street Name	Length	Street Name	Length	Street Name	Length	Street Name	Length
Acacia Cr, COROWA	76	Defence Dr, MULWALA	725	Hume St, MULWALA	1,358	Oura St, RAND	172
Acacia Dr, MULWALA	504	Denison St, DAYS DALE	214	Hume St, SOUTH COROWA	3,161	Parade Pl, COROWA	292
Adams St, SOUTH COROWA	1,456	Dignan Cr, COROWA	86	Hunter St, OAKLANDS	118	Parliament St, COROWA	303
ADI Ave, MULWALA	192	Dock St, SOUTH COROWA	139	Inglis St, MULWALA	1,103	Patey St, OAKLANDS	325
Airlie St, COROWA	475	Dominion Rd, COROWA	231	Isabel St, COROWA	395	Payne St, MULWALA	153
Aitken St, COROWA	219	Dunmore St, MULWALA	327	Jackson St, COROWA	202	Pearce St, HOWLONG	1,163
Albert St, COROWA	503	East St, HOWLONG	718	James Cook Ave (East Bound Carriageway), HOWLONG	237	Pell St, HOWLONG	1,589
Alfred St, COROWA	287	Easterby Cr, HOWLONG	135	James Cook Ave (West Bound Carriageway), HOWLONG	231	Piggin Cr, COROWA	139
Alice St, COROWA	122	Edward St, COROWA	924	Jasmin Cr, COROWA	209	Pilbara Cr, COROWA	294
Amaroo Cr, MULWALA	159	Edward St, MULWALA	548	Jasmine Cr, MULWALA	41	Pimpala Cres, MULWALA	970
Andyanna Cr, COROWA	184	Emily Cr, HOWLONG	192	John St, COROWA	1,471	Pinot Cres, COROWA	391
Anna St, URANA	982	End St, URANA	130	Johnson Cr, HOWLONG	66	Pool Ave, MULWALA	230
Armour St, COROWA	206	Enfield St, SOUTH COROWA	1,051	Johnson St, COROWA	190	Poseldon Rd, COROWA	525
Arnott St, COROWA	222	Erne St, MULWALA	600	Jones St, MULWALA	133	Post Office La, COROWA	128
Ash Ave, COROWA	265	Evelyn St, COROWA	339	Jude St, HOWLONG	2,996	Presti Cr, COROWA	47
Ash La, COROWA	42	Fairway Cl, HOWLONG	374	Justin Cr, COROWA	158	Princess St, URANA	1,271
Ashford Rd, HOWLONG	204	Federation Ave (Service Rd 1), COROWA	190	Katrina Cr, COROWA	768	Queen St, COROWA	514
Augusta St, SOUTH COROWA	854	Federation Ave (Service Rd 2), COROWA	161	Keena Cr, COROWA	104	Railway St, BALDALE	758
Aurora Tce, MULWALA	306	Federation Ave (Service Rd 3), COROWA	16	Kennedy St, HOWLONG	2,200	Railway St, RAND	302
Banff St, COROWA	566	Federation Ave (Service Rd 4), COROWA	216	Kenna Cr, MULWALA	54	Ramsay St, COROWA	405
Bank St, HOWLONG	1,279	Federation Ave (Service Rd 5), COROWA	16	Kindra St (South), RAND	95	Rankin St, OAKLANDS	331
Banksia Dr, COROWA	715	Fleming Dr, COROWA	220	Kindra St, RAND	682	Read St, HOWLONG	1,103
Barber St, COROWA	138	Foster Cr, MULWALA	77	King St, COROWA	370	Richmond St, BOREE CREEK	1,165
Barooga Rd, MULWALA	1,574	Four Corners St, RAND	139	Kingfisher Dr (Southbound Carriageway), MULWALA	122	Riesling St, COROWA	685
Bayly St, MULWALA	2,913	Fraser Cr, COROWA	69	Kingfisher Dr, MULWALA	671	River St, COROWA	230
Beams St, MULWALA	185	Frederick St, URANA	1,156	Kooba St, RAND	188	River St, SOUTH COROWA	2,379
Beer Cr, HOWLONG	71	French St, OAKLANDS	121	Kookaburra Way, MULWALA	317	Robinson St, DAYS DALE	262
Belah St, RAND	220	Gaffney St, OAKLANDS	372	Kooyong St, RAND	141	Roden St, SOUTH COROWA	379
Ben Tce, MULWALA	88	Gallipoli St, COROWA	760	Lachlan St, BOREE CREEK	397	Romani La, COROWA	126
Beryl Dr, COROWA	533	Ghost Gum Cr, MULWALA	270	Lakeview Cr, MULWALA	111	Romney St, MULWALA	1,355
Betherment Pde, COROWA	638	Gibson Pl, HOWLONG	441	Lang St, MULWALA	698	Rose Dr, MULWALA	505
Billyday Cr (South Branch), HOWLONG	75	Gilson Pl, HOWLONG	388	Lara Cl, MULWALA	344	Russell St, HOWLONG	1,019
Billyday Cr, HOWLONG	241	Gitchell St, COROWA	291	Larmer St, HOWLONG	1,777	Saleyards Rd, COROWA	123
Binda Rd, MULWALA	695	Golf Club Dr, HOWLONG	591	Lawrence St, BOREE CREEK	218	Sanger St, COROWA	784
Birdwood St, COROWA	598	Golf Club Dr, MULWALA	140	Lawrence St, SOUTH COROWA	428	Santos Rd, COROWA	258
Bong St, RAND	179	Gordon Cr, COROWA	125	Leigh St, MULWALA	169	Sarah Cr, HOWLONG	132
Boral Cr, COROWA	227	Gray St, COROWA	282	Lewis St, MULWALA	35	Sauvignon Dr, COROWA	720
Bow St, COROWA	398	Green St, MULWALA	199	Lindsay St, COROWA	298	Shiraz Cres, COROWA	377
Braintree Ave, COROWA	154	Grevillea Tce, MULWALA	721	Lone Pine Ave, COROWA	383	Short St, COROWA	127
Bridge Rd, COROWA	802	Grey St, SOUTH COROWA	229	Lonsdale St, MULWALA	123	Short St, HOWLONG	217
Bristol Cr, COROWA	112	Gulair Rd, MULWALA	592	Loughnan St, MULWALA	144	Smith St, URANA	274
Brocklesby St, SOUTH COROWA	430	Gunambill St, OAKLANDS	373	Lowe St, HOWLONG	815	Sophia Cl, COROWA	216
Brooks Cr, MULWALA	59	Guy St, COROWA	1,332	Lucan St, MULWALA	1,185	St Brigids La, HOWLONG	238
Broughton Cr, HOWLONG	57	Hall Cr, HOWLONG	94	MacGill Cr, COROWA	130	Stoughton Rd, HOWLONG	210
Browley St, MORUNDAH	569	Hammer St, HOWLONG	1,328	Maddison Ave, COROWA	107	Steel St, COROWA	572
Bruce Cr, COROWA	61	Hammersley Rd, COROWA	493	Malbec Cr, COROWA	95	Stephen St, URANA	1,988
Buller St, OAKLANDS	975	Havelock St, MULWALA	547	Manners St, MULWALA	366	Sturt St, MULWALA	875
Cadell St, SOUTH COROWA	1,153	Hawdon Cr, HOWLONG	109	Marie Cr, HOWLONG	181	Talbot Cres, COROWA	72
Cameron Cr, MULWALA	64	Hawkins St, HOWLONG	463	Martin St, SOUTH COROWA	417	Talbot St, URANA	410
Carson Dr, COROWA	272	Hay St, COROWA	356	Mary St, COROWA	325	Thiess Rd, COROWA	232
Cassar Cr, MULWALA	65	Hay St, SOUTH COROWA	268	Matthew Cr, COROWA	159	Thomas Ave, COROWA	117
Cemetery Rd, COROWA	2,484	Header World Ave, COROWA	409	May St, COROWA	130	Thornber St, OAKLANDS	776
Centenary Cr, MULWALA	85	Heather Cct, MULWALA	560	McCarthy St, MULWALA	880	Tower St, COROWA	1,451
Chapman St, URANA	663	Henry St, COROWA	226	McDonald Ave, COROWA	119	Townsend St, HOWLONG	1,546
Charles St, BALDALE	508	Hermitage Dr, COROWA	710	McGrath St, MULWALA	311	Unnamed Rd (1), COREEN	193
Chisnall St, COROWA	468	Hicks St, MULWALA	204	McKee St, MULWALA	212	Unnamed Rd (4), COREEN	239
Chivell St, COROWA	218	High St (South Bound Carriageway), HOWLONG	458	McMillan St, MULWALA	79	Vardy St, URANA	245
Church St, COROWA	210	High St, HOWLONG	593	Melbourne La, MULWALA	442	Vera St, COROWA	619
Church St, SOUTH COROWA	2,312	Hoac Cr, MULWALA	142	Meredith St, HOWLONG	131	Victoria St, COROWA	335
Church St, URANA	412	Hoddle St, HOWLONG	1,260	Methuen St, OAKLANDS	37	Victoria St, HOWLONG	2,205
Clarence St, BOREE CREEK	528	Hogg Cr, COROWA	89	Milthorpe St, OAKLANDS	1,336	Villatarni La, MULWALA	63
Clarke St West, HOWLONG	432	Holbeach St, HOWLONG	673	Murray St, COROWA	263	Walker St, COROWA	690
Clarke St, HOWLONG	925	Honour Ave (Service Rd 1), COROWA	1,626	Murray St, MULWALA	159	Wanani Rd, MULWALA	1,488
Cobar Cr, COROWA	122	Honour Ave (Service Rd 2), COROWA	25	Murray St, OAKLANDS	563	Wandoo Cr, MULWALA	354
Colless St, MULWALA	184	Honour Ave (Service Rd 3), COROWA	24	Namoi St, BOREE CREEK	302	Wanstead St, COROWA	1,447
Colombo St, MORUNDAH	187	Honour Ave (Service Rd 4), COROWA	26	Nicholson St, MULWALA	164	Waratah Rd, MULWALA	273
Coobah Rd, MULWALA	189	Honour Ave (Service Rd 5), COROWA	25	Nixon St, OAKLANDS	242	Ward St, MULWALA	140
Coonong St, URANA	1,349	Honour Ave (Service Rd 6), COROWA	25	Nixon St, SOUTH COROWA	1,702	Waterwood Cr, MULWALA	139
Cooren St, OAKLANDS	1,173	Honour Ave (Service Rd 7), COROWA	26	Norman St, COROWA	120	Webster St, OAKLANDS	108
Cotton St, SOUTH COROWA	1,219	Honour Ave (Service Rd 8), COROWA	28	Norseman Rd, COROWA	656	Whitehead St, COROWA	4,236
Cowal St, RAND	295	Hospital La, COROWA	74	North St, MULWALA	115	William Pl, HOWLONG	77
Cross St, HOWLONG	120	Hovell St (South Bound Carriageway), HOWLONG	231	Nyncoola Cr, MULWALA	83	William St, URANA	1,420
Cypress Way (North End), MULWALA	128	Hovell St, HOWLONG	828	O'Brien Cr, COROWA	222	Wing Cres, MULWALA	240
Cypress Way, MULWALA	1,216	Howard Cr, HOWLONG	138	Old Mill Rd, MULWALA	179	Woodhouse St, URANA	575
Damian Cres, MULWALA	278	Hughes Cr, COROWA	111	Oolong Rd, HOWLONG	844	Yamma St, MORUNDAH	124
Darling St, BOREE CREEK	329	Hume Cl, HOWLONG	86	Orchard St, HOWLONG	75	Yarrabee St, MORUNDAH	401
Davidson Cr, COROWA	111	Hume St (South Bound Carriageway), HOWLONG	112	Orford St, SOUTH COROWA	529	Yarrah Rd, MULWALA	312
Dawe St, COROWA	600	Hume St, BOREE CREEK	193	Orme St, BOREE CREEK	475	Young St, DAYS DALE	269
Daysdale St, OAKLANDS	1,133	Hume St, HOWLONG	1,182	Osborne St, URANA	898	Young St, OAKLANDS	658

Work type	Length	Indicative cost (\$/km)	Total	Potential consequences if work not done	Please note: the lengths above are total length of the street. Colours indicate there is work required, but this generally not over the full length of the street so the lengths above don't add up to totals to the left.
Reseal only (pavement OK)	5,340	40,000	373,600	4,670,000	
Reseal + heavy patch	607	150,000	91,050	303,500	
Reconstruction	2,710	500,000	1,355,000	N/A	
<b>TOTAL</b>	<b>12,657</b>		<b>1,819,650</b>		

Please note: the above information is based on inspections undertaken in 2020. The condition of Council's roads has deteriorated since this time due to prolonged wet weather. This list of works and classification of sections of road between the options is indicative only, giving all stakeholders an overview of the scale of the challenges Council is facing across its road network, as well as reinforcing the importance of prioritising the limited funds available. While road users no doubt see 'level' of service' issues (reconstruction work in red) as top priority, it is critical that Council invests in resealing (in blue) to avoid the pavements on these roads failing prematurely, (where the cost of works is 10 times more). It is important to note that priorities are more complex than indicated here (e.g. Council needs to prioritise funds toward roads carrying more traffic). Actual priorities will be determined by Council in its annual capital works program (in the Operational Plan). Council also recognises it needs to keep all roads as safe as possible with the limited funds it has available.



## Appendix 3: List of Identified Works on Sealed Local Roads - Regional

<b>Federation Council</b> State of our Regional Road Network <i>*refer notes at bottom of page</i>		<b>High priority 'backlog'</b> (pavement at high risk of failure, poor seal not protecting it)		<b>Medium priority 'backlog'</b> (pavement condition OK for now but poor seal not protecting it)		<b>Level of service issues</b> (pavement has already failed, full road needs rehabilitation)	
Indicative cost (\$/km):		\$125,000		\$33,000		\$300,000	
Indicative work required:		Heavy patch failed areas (assume 40% of pavement) + full reseal		Full reseal		Full pavement rehabilitation	
Reported in 'State of Assets' Report as the cost to:		Bring to satisfactory + bring to agreed level of service		Bring to satisfactory + bring to agreed level of service		Bring to agreed level of service	
Road Name	Length	Length	Cost	Length	Cost	Length	Cost
Back Berrigan Rd	7.3	1.6	200,000	3.4	112,200		
Cocketgedong Rd	30.9				-		
Corowa Rd	12.2				-		
Daysdale-Walbundrie Rd	16.1			2.6	85,800		
Federation Way	104.6			2.0	66,000		
Kywong-Howlong Rd	5.9				-		
Mahonga Rd	10.4				-	6	1,800,000
Oaklands Berrigan Rd	5.2			5.2	171,600		
Oaklands Jerilderie Rd	8.8			6.4	211,200		
Palmer Forest Rd	3.6			3.6	118,800		
River Rd, HOWLONG	1.1				-		
Sturt St, HOWLONG	0.6				-		
Tocumwal Rd	8.0				-		
Yamma Rd	10.8				-		
<b>TOTAL SEALED</b>	<b>225.5</b>	<b>1.6</b>	<b>200,000</b>	<b>23.2</b>	<b>765,600</b>	<b>6.0</b>	<b>1,800,000</b>
<b>Consequence of not doing smaller scope of work:</b>			<b>480,000</b>		<b>6,960,000</b>		
Daysdale-Walbundrie Rd	7.0						
Mahonga Rd	30.9						
<b>TOTAL UNSEALED</b>	<b>37.9</b>						
<i>Please note: the above information is based on inspections undertaken in 2020. The condition of Council's roads has deteriorated since this time due to prolonged wet weather. This list of works and classification of sections of road between the options is indicative only, giving all stakeholders an overview of the scale of the challenges Council is facing across its road network, as well as reinforcing the importance of prioritising the limited funds available. While road users no doubt see 'level of service' issues (failed pavements, right hand column) as top priority, it is critical that Council invests in resealing (centre column) to avoid the pavements on these roads failing prematurely, which will place the road into the left or right column (where the cost of works is 4 to 8 times more - see "consequences" in red at bottom of table). It is important to note that priorities are more complex than indicated by the 3 columns above (e.g. Council needs to prioritise funds toward roads carrying more traffic - arterial and collector - over local access). Actual priorities will be determined by Council in its annual capital works program (in the Operational Plan). Council also recognises it needs to keep all roads as safe as possible with the limited funds it has available.</i>							

## Appendix 4: Financial Statements – Report on Infrastructure Assets

The figure below (adapted from the Code of Accounting and Financial Reporting Practice) shows how values for CR-B, CR-L and O&M for each asset category align with those in the **ROIA**.

### NSW Council

#### Report on infrastructure assets as at 30 June 2022

Asset class	Asset category	Estimated cost to bring to assets to satisfactory standard	Estimated cost to bring to the agreed level of service set by council	2021/22 Required maintenance <sup>^</sup>	2021/22 Actual maintenance	Net carrying amount	Gross replacement cost (GRC)	Asset condition as % of gross replacement cost				
		\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	1	2	3	4	5
Buildings *												
Other structures *												
		<b>CR-B</b>	<b>CR-L</b>	<b>O&amp;M</b>								
	Roads	capital	capital	high risk								
	Bridges	renewal	renewal	+ 'level of								
	Footpaths	(high risk	(level of	service'								
	Other road assets (incl. bulk earth works)	backlog)	service)	issues								
	Sub-total											
Water supply network *												
Sewerage network *												
Stormwater drainage *												
Open space/recreational assets *	Swimming pools											
	Other open space/recreational assets											
	Sub-total											
Other infrastructure assets *												
<b>Total classes</b>	<b>Total – all assets</b>											

\* Must reconcile with Infrastructure, Property, Plant & Equipment note. ^ Required maintenance is the amount identified in Council's asset management plans.

## Appendix 5: Acronyms

CCTV	Closed circuit television
CNU	Capital new or upgraded asset
CR-B	Capital renewal – backlog
CR-L	Capital renewal – level of service
EPA	New South Wales Environment Protection Authority
O&M	Operations and maintenance
ROIA	Report on Infrastructure Assets
SAMP	Strategic Asset Management Plan
SOCIA	State of Our Council Infrastructure Assets
STP	Sewage Treatment Plant



## Schedule of Changes & Amendments

Version	Date	Changes / Amendments
1.0	10 Nov 2022	Draft for Council consideration for public exhibition

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