Road Management Strategy



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1 Introduction

This Roads Management Strategy (the Strategy) has been developed to ensure the operational functions of Council are in line with:

- The legislative requirements such as the NSW Roads Act 1993, and Roads Regulations 2008;
- Relevant guidelines and standards to ensure a consistent and industry adopted approach in terms of road planning, road design, road construction and road maintenance;
- Strategic directions adopted by Narromine Shire Council Asset Management Strategy, Asset Management Plans and Long-Term Financial Plans;
- Community (Residential, Commercial and Industrial) needs and expectations;
- NSW Government Future transport Strategy 2056; and
- Draft Central West and Orana Regional Transport Plan, October 2021

This Strategy describes how Council manages its road network to ensure that Council has a consistent, clear and sustainable approach to its road management and roads operations.

It principally addresses matters relating to roads and streets which are the responsibility of Council as the Roads Authority, these include:

- Regional Roads;
- Local Rural Roads;
- Local Urban Streets;
- Bridges and culverts; and
- Other ancillary infrastructure (roadside drainage, signs, line marking, traffic islands, pedestrian crossings, guard rails, etc.).

The Strategy provides a transparent sustainable management approach for Narromine Shire Council to construct and maintain roads under its control which reflect the needs of the community as the road network authority, to provide infrastructure that allows safe, convenient and comfortable travel to, from, and within the Region. This involves both maintaining existing roads and planning for future improvements. This Strategy seeks to consolidate and define a number of procedures such as:

- Roles and responsibilities for different departments within Council;
- Road hierarchy descriptions, standards and requirements;
- Customer query, complaint, and request management;
- Frequency based inspection regimes;
- Programmed maintenance and intervention standards;
- Capital works identification and prioritisation;



- Levels of service and response guidelines for defects;
- Reporting guidelines, content and audience; and
- Implementation and quality control of road work.

The Local Government Area will experience significant growth in the future as a result of the construction of Inland Rail (requiring temporary accommodation, haul roads, etc.), various developments within the Local Government Area and expansion of the mine at Tomingley, and development.

Further to this, growing attention to extreme weather events and the long-term impacts of climate change have begun to focus efforts nationally and internationally on the ability of society and infrastructure to adapt to and recover from future changed conditions and associated disasters. The term "resilience" has generally come to represent this adaptation/recovery ability. In the last decade, resilience has become a priority consideration in the planning, design, construction, operations, and maintenance of infrastructure.

In the transportation sector, a shift in focus has begun to develop guidance on how scientific climate change predictions can be expected to impact transportation infrastructure and operations. More recently, this guidance has included how resilience can be integrated into infrastructure as a means to address both long-term climate change impacts and short-term extreme events.

It is Council's objective to have all roads with hierarchy 1-3 fully sealed by 2050.

2 Roads Classifications in NSW



State Roads

State Roads have the followings function in NSW:

- Links major commercial, industrial and residential areas and distribution centres and ports within the Sydney, Newcastle, Wollongong and Central Coast urban centres;
- Links major NSW towns (pop. 10,000-100,000) with the Sydney, Newcastle, Central Coast and Wollongong urban centres;
- Link major NSW towns with each other where there is significant interaction; and
- Links major regions throughout the State with each other.

Regional Roads

Regional Roads have the following functions in NSW:

- Links smaller towns within the State Road network;
- Connects smaller towns with each other;
- Performs a sub-arterial function in major urban centres by:
 - Supplementing the State Road network for significant intra- urban flows; and
 - Providing access for significant flows to other commercial and industrial centres.
- Provides access from the State Road network to major recreation and tourist areas of State significance;
- Provides a town or suburban centre relief route for significant flows of through traffic, especially freight vehicles;
- Provides access for significant flows of freight vehicles to major rural intermodal interchanges and urban distribution areas.

The above list is the broad summary of the criteria and there are additional tests for function that are too numerous to provide in this Strategy.

Local Roads

Local Roads has the following function:

• Provide for local circulation and access

Local roads are the responsibility of Councils to fund, determine priorities and carry out works.

The State Government provides only limited assistance under special programs (e.g. Urban Bus Routes) for local roads.

The Federal Government has a long-standing role in providing road funds to councils. In 2000, the Federal Government introduced the Roads to Recovery Program to provide additional funding to councils. Councils have discretion to use their Federal funds for works on any category of road. More information about road classification can be found on Transport for NSW's website.



3 Legislative Requirements

The following is a summary list of legislation and Acts that are applicable to the Roads Assets at Narromine Shire Council, but not limited to:

- Local Government Act, 1993;
- Roads Act, 1993;

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- Roads (General) Regulation 2018;
- Biodiversity Conservation Act, 2016;
- Environmentally Hazardous Chemicals Act 1995;
- Environmentally Hazardous Chemicals Amendment Act 1996;
- Environmental Planning and Assessment Act 1979;
- NSW Work Health and Safety Act 2011;
- Mine Health and Safety Act 2004;
- Dangerous Goods Act 1975; and
- All regulations, awards, codes and/or guidelines pursuant to any of such Acts and any enactments in lieu of such Acts as may be repealed.



4 Roles and Responsibilities

A description of inter departmental roles and responsibilities are presented in Table 1.

| Description | Role | Responsibility |
|--|---|---|
| Councillors | Determine level of service, and needs of the community. Approve and give concurrence to policies, budgets and planned projects. | Review all considerations and make decisions. Actively participate at relevant Section 355 Committees or working groups. |
| Mayor | | Ensure decisions are made by councillor concurrence. Lobby for support at all levels of Government. |
| General Manager | Ensure Council staff are aware of their roles and responsibilities with regards to roads planning and operations | Implement decisions of council. |
| Director of Finance and Corporate Strategy | Ensure staff are aware of their responsibility, and have appropriate skills and qualifications. | Advise what funding is available for Capital and Operating budgets Manage funding revenue and expenditure reporting. |
| Director of Infrastructure and Engineering Services | Ensure staff are aware of their responsibility, and have appropriate skills, competencies and qualifications. | Identify works and operational programs in consultation with various stakeholders and management plans for implementation Ensure relevant documentation and strategies are reviewed and updated to align with best practice, market trends and current technology while satisfying Council's risk appetite. Ensure allocated projects are delivered on time, to specified quality and budget. Communicate priorities to |

Table 1 Inter-departmental roles and responsibilities



| Description | Role | Responsibility |
|--|--|---|
| | | Councillors and the general public. |
| | | Provide scopes and budgets for projects |
| Director Community & Economic Development | Ensure staff are aware of their responsibility, and have appropriate skills, competencies and qualifications | Assist with grant applications or other funding sources in consultation with the Director of Infrastructure and Engineering. |
| | | Assist with public consultation |
| Manager Infrastructure Delivery | Management of the engineering side of road infrastructure operation, maintenance and capital | Allocated projects delivered on time, to specified quality and budget. |
| | works. | Operations are constantly reviewed in line with current best practice and working environment. |
| | | Set maintenance programs and address immediate safety concerns |
| Manager Engineering Services | Responsible for design of capital works, preparation of detailed project plans, monitoring and control of | Detailed planning and design, signing off when project milestones are achieved. |
| | project quality and delivery. | Investigation and prioritisation of projects. Preliminary planning and costing |
| Roads Supervisor | Deliver project plans and project scoping | Day to day project management, supervision and leadership of crews and contractors on site. |
| Civil Designer | Design support | Project investigations, prepare cost estimates, and scope of work from which a detailed plan can be formulated. |
| Asset Inspector | Conduct inspections and recommend corrective actions. | Planned condition assessment inspections, traffic count, visual inspections. |
| | | Asset management data capture and recording |

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Engineering Services

Engineering Services (ES) has a role in the asset management across all categories of Council assets. In the roads space ES is responsible for:

- The strategic planning of the road network;
- Determination and allocation of budgets for capital works (new and renewal) under the guidance of Finance and Corporate Strategy;
- Grant funding applications to relevant State and Federal roads agencies as well as through the assistance of the Economic Development section to other external funding streams;
- Inspection of network to determine asset performance, condition, replacement and maintenance;
- Creation of Capital Works and Maintenance Programs in consultation with the Infrastructure Delivery group;
- Supporting the relevant sections with Asset Revaluations;
- Financial reporting and acquittal of grants with assistance from the Finance Section; and
- Capturing and recording relevant financial and Asset Management Information System (AMIS) for reporting.

Infrastructure Delivery

The Infrastructure Delivery team is responsible for:

- Implementing the asset management plans prepared by the ES;
- Implementation of relevant works programs; and
- Recording of relevant data in the Asset Management Information System

5 Stakeholders

The table below shows the relevant stakeholders and key engagement requirements.

| Stakeholder | Stakeholder matters | Key messages | Engagement from Council | |
|-----------------------------|---|--|---|--|
| State and Federal | Provide funding | Council's grant applications to meet set criteria and be submitted on time. | Project updates. | |
| Government | Create and uphold legislation | Equitable distribution of funds between local government areas. | Local Traffic Committee Meetings. Road Safety Audits. | |
| | Have a say in proposed strategy. | This Strategic plan is a communication tool and a pathway to a sustainable network | Council reports | |
| Councillors | Endorsement of Strategy and Council's long term program of work. | The plan determines what is required and the priority of the work. | Staff engagement, Councillor Workshop | |
| | Create awareness and supports the implementation of this Strategy. | Regular benchmarking and quality management. KPI's measured ensures Council is getting value for money. There is a strategy, and a fair planning | Asset Management Plans Long term financial plans | |
| Residents and Commercial | Provide feedback on current road state and preferred road state. | Participate in community consultation, including strategy feedback | Community consultation. | |
| Businesses | Obey all road rules, including road closures and weight restrictions | "All weather service" regardless of location. Responsiveness to request for service. | | |
| | Provide feedback into strategy | This Strategic plan is a communication tool and a pathway to a sustainable fair network with no extra burden to residents, | Engineering and Assets | |
| Council staff | Provide information to the public as needed. Undertake works to deliver the planned works program | business, or industry within financial constraints of Council. The system determines what is required and the priority of the work. Regular benchmarking and quality management. KPI's | team reviews, Councillor workshop. | |

5.1 Community Needs

Road use purpose can loosely be divided into the following categories.

- Residents Utilise urban roads, desire smooth roads to reduce noise, minimal heavy vehicle movement and are aesthetically pleasing. Additionally local residents desire streets that enhance vehicular, pedestrian and bicycle safety, and maintain mobility and access to critical areas of the town including shopping precincts, food eateries and medical facilities.
- **Commercial / Industrial Sector** To aid the operation of business in general, the commercial / industrial sector requires roads that are aesthetically pleasing, enable easy and safe access to and from their business, provide sufficient parking to potential customers, and provide safe pedestrian access to their premises.
- Agriculture To aid the operation of business in general, the agriculture sector requires roads that are trafficable in all weather, have pavement that can withstand high heavy vehicle traffic and allow connectivity to agricultural hubs. Agricultural users also require roads to be sufficiently wide and bends appropriately formed to enable long vehicles including road trains to travel safely. Bypasses around towns and away from urban areas are important to this user group.
- **Visitors** Visitors require safe roads that minimise delays and an aesthetically pleasing township.

6 Asset Planning And Asset Lifecycle General

Transport for NSW (TfNSW) is the Responsible Road Authority for funding and managing the arterial road network (State Roads) that passes through Narromine Shire which consists of:

- Mitchell Highway (National Route 39) and its corresponding road reserve,
- Newell Highway (National Route 32) and its corresponding road reserve,
- Manildra and Culling Streets and their corresponding road reserve.

Narromine Shire Council would in the future like to transfer the a number of roads to State jurisdiction, these are shown in Table 3.

| Road Name | Propose d Status | Current Status | Length (km) | Average Annual Daily Traffic (AADT) | % Heavy Vehicles |
|------------------------------------|------------------------|-------------------|----------------|--|------------------------|
| Peak Hill Rd (MR 89) | State | Regional | 37.5 | 1019 | 35 |
| Warren Rd | State | Local | 0.7 | TBA | TBD |
| Eumungerie (MR 572) | State | Regional | 34.77 | 770 | 46 |
| Trangie- Dandaloo (MR 347 D) | State | Regional | 31.09 | 423 | 25 |
| Trangie- Collie (MR 347 C) | State | Regional | 44.66 | 695 | 25 |
| Tullamore Road (MR 354) | State | Regional | 41.18 | 787 | 48 |
| Gainsborough ¹ | Regional | Local | 1.8 | Approx. 787 | Approx. 48 |

Table 3 Proposed roads for reclassification

¹ Gainsborough Road has been identified to be upgraded to convey heavy vehicles from Tullamore Road to Tomingley / Peak Hill Road (MR 89) through Narromine.

Narromine Shire Council is the Responsible Road Authority for managing the remaining road network within the Narromine shire boundaries. Narromine's Road network is classified into 3 categories:

- State Roads managed by Transport for NSW with capital works funded by the State Government;
- Regional Roads managed by Council with capital works majority funded by State Government while maintenance works are funded by Council;
- Local Roads managed by Council and majority funded by Council with some federal assistance.

Generally, Town Streets (Narromine, Trangie, and Tomingley) are managed and funded entirely by Council.

Council's Road Register includes details of public roads for which Council is responsible. Council is generally responsible for the overall management and development of the Council's local road network. Council does not maintain privately owned roads.

Inspections of the road network form the cornerstone of the maintenance or renewals program and are undertaken on a regular basis to ensure that the road assets are being maintained in an appropriate manner and that adopted intervention levels are being met.

Sustainability

Consideration must be given to reduce dependence on non-renewable natural resources such as gravel.

A circular economy that uses a systems-focused approach and involves industrial processes and economic activities that are restorative or regenerative by design, enable resources used in such processes and activities to maintain their highest value for as long as possible, and aim for the elimination of waste through the superior design of materials, products, and systems (including business models) should be adopted. It is a change to the model in which resources are mined, made into products, and then become waste. A circular economy reduces material use, redesigns materials to be less resource intensive, and recaptures "waste" as a resource to manufacture new materials and products.

Council is committed to utilizing sustainable material and products where possible and is constantly reviewing new technologies and procedures to increase operational sustainability.

Gravel

Council has identified a number of source within the LGA to source gravel for road construction. Council is the owner and operator of the following gravel pits.

Table 1: NSC owned and operated gravel pits

| Quarry | Comment on status, operation and products | Comment on ability to supply materials | Lot and DP Number |
|------------|--|--|----------------------|
| Collyburl | Borrow pit | Medium, used in road renewal/ restoration where appropriate. | Lot 1 DP 117366 |
| Fairview | Quarry | Medium, no recent workings or stockpiles evident | Lot 46 DP 755105 |
| Merrylands | Borrow pit, weathered granite | Limited, further exploration required to define resource | Lot 39 DP 755121 |
| Lot 90 | Quarry | High, based on neighbouring Macquarie Manor operation. No workings yet. Recently obtained confirmation regarding land- use. | Lot 90 DP 727134 |

7 Narromine Shire Council's Town Streets

The table below lists all the town streets within the Local Government Area.

Table 16 Town streets within the Narromine LGA

| Town | Road Name | Road Number | Town | Road Name | Road Number |
|-----------|----------------------|----------------|-----------------|----------------------------|----------------|
| Narromine | FIRST AVENUE | 301 | Narromine | FIFTH AVENUE LANE WAY | 361 |
| | SECOND | 001 | - Kan of finite | | 001 |
| Narromine | AVENUE | 302 | Narromine | THIRD AVENUE LANE WAY | 362 |
| | | | | DANDALOO STREETLANE | |
| Narromine | THIRD AVENUE | 303 | Narromine | WAY | 363 |
| Narromine | FOURTH AVENUE | 304 | Narromine | MERILBA STREET LANE WAY | 364 |
| Narromine | FIFTH AVENUE | 305 | Narromine | TEMOIN STREET LANE WAY | 365 |
| Narromine | SIXTH AVENUE | 306 | Narromine | MERYULA STREET LANE WAY | 366 |
| | | | | ALAGALAH STREET LANE | |
| Narromine | A'BECKETT STREET | 307 | Narromine | WAY | 367 |
| | | | | MANILDRA STREET LANE | |
| Narromine | ALGALAH STREET | 308 | Narromine | WAY | 368 |
| | OLD | | | | |
| | BACKWATER | | | | 0.40 |
| Narromine | ROAD | 309 | Narromine | BOOTH STREET LANE WAY | 369 |
| Narromine | BIRCH STREET | 310 | Narromine | CULLING STREET LANE WAY | 370 |
| | | 211 | | ELLENGERAH STREET LANE | 271 |
| Narromine | BOOTH STREET | 311 | Narromine | | 371 |
| Narromine | BURRAWAY ST | 312 | Narromine | KINGSFORD SMITH PLACE | 372 |
| Narromine | CATHUNDRIL STREET | 313 | Narromine | NANCY BIRD-WALTON DRIVE | 373 |
| NUTOTIME | COMMODORE | 515 | NUTUTINE | DRIVE | 575 |
| Narromine | CRES | 314 | Narromine | EWEN WAY | 378 |
| Narromine | CULLING ST | 315 | Narromine | POWELL PLACE | 379 |
| Narromine | DANDALOO ST | 316 | Narromine | HAYDEN CIRCUIT | 377 |
| Narromine | DAPPO RD | 317 | Narromine | MURGAH STREET | 375 |
| Narromine | DAVIS DRIVE | 318 | Trangie | ALBERT STREET | 401 |
| Narromine | DERRIBONG AVE | 319 | Trangie | ALLEN STREET | 402 |
| Narromine | DERRIBONG ST | 320 | Trangie | BELGROVE STREET | 403 |
| Narromine | DUFFY STREET | 321 | Trangie | BIMBLE BOX LANE | 404 |
| | ELLENGERAH | 021 | nangio | | 101 |
| Narromine | STREET | 322 | Trangie | BURRAWAY STREET | 405 |
| Narromine | ELM CLOSE | 323 | Trangie | CAMPBELL STREET | 406 |
| | GARDEN | | | | |
| Narromine | AVENUE | 324 | Trangie | CROUDACE STREET | 407 |
| | INDUSTRY | | | | |
| Narromine | AVENUE | 325 | Trangie | DANDALOO STREET | 408 |
| | JERRY SMITH | | | | |
| Narromine | STREET | 326 | Trangie | DERRIBONG STREET | 409 |
| | KURRAJONG | | | | |
| Narromine | PARADE | 327 | Trangie | ENMORE STREET | 410 |

| Town | Road Name | Road | Town | Road Name | Road |
|-----------|--------------------------|--------|------------|------------------------|--------|
| | | Number | | | Number |
| Narromine | MACQUARIE DRIVE | 328 | Tranaia | GEORGE STREET | 411 |
| Nanomine | MANILDRA | 320 | Trangie | GEORGE STREET | 411 |
| Narromine | STREET | 329 | Trangie | goan street | 412 |
| | MAPLE | 027 | indingio | | 112 |
| Narromine | CRESCENT | 330 | Trangie | HARRIS STREET | 413 |
| Narromine | MERILBA STREET | 331 | Trangie | JOHN STREET | 414 |
| Narromine | MERINGO STREET | 332 | Trangie | MCLEAN STREET | 415 |
| Narromine | MERYULA STREET | 333 | Trangie | MULLAH STREET | 416 |
| Narromine | MINGELO STREET | 334 | Trangie | MUNGERY STREET | 417 |
| Narromine | MINORE STREET | 335 | Trangie | NICHOLAS STREET | 419 |
| Narromine | MOSS AVENUE | 337 | Trangie | POINCAIRE STREET | 420 |
| Narromine | MURGAH STREET | 338 | Trangie | SWIFT STREET | 421 |
| Narromine | NELLIE VALE | 339 | Trangie | VICTOR STREET | 423 |
| Narromine | NYMAGEE STREET | 340 | Trangie | WEEMABAH STREET | 424 |
| Narromine | OAK CRESCENT | 341 | Trangie | ENMORE STREET LANE WAY | 425 |
| Narromine | PAYTON CLOSE | 342 | Trangie | MULLAH STREET | 426 |
| Narromine | PEGALE PLACE | 343 | Trangie | SWIFT STREET | 427 |
| | | | | WEEMABAH STREET LANE | |
| Narromine | SCOTT COURT | 344 | Trangie | WAY | 428 |
| Narromine | SHORT STREET | 345 | Trangie | MACLEAN DRIVE LANE WAY | 429 |
| Narromine | SUNGIFT AVENUE | 346 | Trangie | GOAN STREET LANE WAY | 430 |
| | | | | DANDALOO STREET LANE | |
| Narromine | TANCRED STREET | 347 | Trangie | WAY | 432 |
| Narromine | TEMOIN STREET | 348 | Trangie | VICTOR STREET LANE WAY | 433 |
| | TERANGION | 0.40 | - . | NARROMINE STREET LANE | 10.1 |
| Narromine | STREET | 349 | Trangie | WAY | 434 |
| Narromine | | 350 | Tomingley | BIRIDOO STREET | 441 |
| | WATTLE | 251 | Taminalay | BUDGERIE STREET | 140 |
| Narromine | | 351 | Tomingley | | 442 |
| Narromine | WARREN RD | 352 | Tomingley | BURRELL STREET | 443 |
| Narromine | | 353 | Tomingley | GENANAGIE STREET | 444 |
| Narromine | CROSSLEY DRIVE BOWDEN | 355 | Tomingley | GUNDONG STREET | 447 |
| Narromine | FLETCHER | 356 | Tomingley | MERILBA STREET | 445 |
| Narromine | TOM PERRY | 357 | Tomingley | MERIEDA STREET | 445 |
| Ranomine | SIXTH AVENUE | | Torningley | | 440 |
| Narromine | LANE WAY | 360 | Tomingley | YAROBIL STREET | 448 |

8 School Bus Routes

School bus routes will be confirmed every 4 years, with new routes added and routes no longer in service removed. The map below shows current school bus routes.



Figure 15 School bus routes as at 29 April 2022

9 Narromine Heavy Vehicle Route

Tomingley (MR 89) and Eumungerie Roads (MR 572) is the preferred alternative heavy vehicle route to the Newell Highway bypassing Dubbo.

Therefore, Narromine Shire Council in the medium term and in conjunction with all relevant stakeholders should develop a long-term heavy vehicle bypass strategy for Narromine. Future versions of this document should reflect the preferred long-term options and a corresponding funding mechanism to ensure it is delivered.

The map below shows the current short-term strategy in terms of heavy vehicle movements through Narromine. Council is in the process of creating a Heavy Access Strategy to outline current and planned heavy vehicle routes and associated projects in more detail.



Map 1 Heavy vehicle route through Narromine

10 Road Hierarchy Definitions

Council's road hierarchy endeavours to match the class of road to its function and to the needs of the community.

The objective of the road hierarchy is to seek a fair and sustainable system based on the variables listed below. Consideration should be given to the road's intended purpose and traffic behaviour i.e. constant or seasonal (intensity-frequencyduration).

The Road Hierarchy is presented in Table 17 below. The desired design standard is achieved by using current guidelines (Austroads, ARRB, IPWEA, research papers, etc.) and is based on environmental, geotechnical and other relevant technical criteria for a particular segment of road.

Maintenance frequency as well as affordability must be considered to ensure level of services are met. Road users should be informed regarding maintenance frequencies, especially to obtain "buy in" or ownership of a particular road as well as to manage expectations of those particular road users. This is to ensure that all roads receive the required maintenance as per the agreed standards and intervals therefore ensuring an equitable allocation.

The Register of Public Roads establishes a Council road classifications or "hierarchy" which is based on the function that each road performs. The road hierarchy adopted by Council reflects the perceived risk associated with the vehicle usage of each road type and is used to differentiate service levels and maintenance standards. Local circumstances such as the influence of schools, hospitals, community facilities or particular concentrations of older, disabled or other potentially vulnerable users are also considered.

Primarily Variables

The Average Annual Daily Traffic (AADT) which is an international standard measurement based on vehicles per day (VPD) / Average Daily Traffic (ADT) converted to a standard two axle vehicle.

Secondary Variables

Secondary variables for roads on the cusp of meeting the AADT requirements for a higher classing include:

- Percentage of heavy vehicles as a function of the AADT (i.e. high ratio heavy/light vehicles);
- Horizontal and vertical alignment of the road (i.e. hilly or curved);
- Used heavily by harvest traffic / livestock transport;
- No alternate routes that could be taken;
- Having no gates / grids on the road;
- Proximity to School Bus runs; and
- Roadside drainage and proximity / location of floodways

| Class | Description | Image | Function | Desired Design Standard | ~Km's of Network |
|-------|-----------------------|------------------|---|--|--|
| 1 | Arterial Road | 012/4/19-10-38 | Primary: AADT > 500 Secondary: Traffic movement between regions and service centres. Permanent School Bus Route Important heavy vehicle route | 11m wide pavement and appropriate formation width Bitumen sealed surface, minimum 9m wide Two lane carriageways minimum 3.5m each Minimum 1m stabilised and sealed shoulder Pavement designed by specialist Longitudinal and cross drainage. Line marked centre and edges Guideposts and other traffic facilities Guardrail where applicable | 190.1km Sealed 0km Unsealed |
| 2 | Sub-Arterial Roads | | Primary: • 150< AADT <499 Secondary: • Traffic movement between collector or access road and arterial road. • Permanent School Bus route • Important heavy vehicle route | 10m wide pavement and appropriate formation width Bitumen sealed surface, minimum 8m wide Two lane carriageways minimum 3.5m each 0.5m/0.5 Sealed/ unsealed shoulder - stabilised Pavement designed by specialist Longitudinal and cross drainage. Line marked centre Guideposts and other traffic facilities Guardrail where applicable | 178.21km Sealed Okm Unsealed |
| 3 | Collector Road | 2019/ 5/20 12:27 | Primary: 70< AADT <149 | Council identifies the following as the bench mark standard for a hierarchy 3 road*: 8m formation Sealed with a width of at least 7m Dual carriageway Two lane carriage way Pavement based on design ESA for Heavy Vehicles with CBR of 3 Longitudinal and cross drainage. No line marking Guardrails and other safety devices | 316.7km Sealed 172km Unsealed |
| 4 | Access Road | | Primary: 20<aadt<69< li=""> Secondary: Road to access limited properties where people actually reside (rural: ≥ 4 houses). Permanent School Bus OR Route used to access permanent school bus </aadt<69<> | 8m wide formation where appropriate Unsealed surface, minimum 7m wide gravel Pavement based on design ESA for Heavy Vehicles with CBR of 3 Longitudinal and cross drainage Guideposts and other traffic facilities | 67.92km Sealed, 302.59km Unsealed |
| 5 | Convenience Links | | Primary: AADT<19 Secondary: Road to access limited properties where people actually reside (rural: ≤ 3 houses) Route used to access a permanent school bus | 8m wide formation where possible Unsealed surface, minor gravelled sections by exception Longitudinal and cross drainage Guideposts and other traffic facilities Pavement based on design ESA for Heavy Vehicles with CBR of 3 | 5.2km Sealed, 272km Unsealed |
| 6 | Service Track | | Primary: AADT<5 Secondary: Access to Private or single property | Not maintained by Council Unformed No Longitudinal and cross drainage User pays for any grading/maintenance | 1.94km Sealed 76.7km Unsealed |

*Council notes that currently there are a number of hierarchy 3 roads that do not meet this standard. Council is working towards upgrading and improving these roads as part of the long-term strategy.

Council's Road Hierarchy is included in Appendix A.

11 Temporary Closure of Public Roads

General

Council may close sealed or unsealed roads at any time for various purposes, the most urgent being safety hazards. Council's Temporary Closure of Roads Procedure details the process behind road closures.

Liability for Damage to a Public Road

A person who causes damage to a public road, or to any road work on a public road or any traffic control facility on a road or road related area within the meaning could be liable to pay to the roads authority the cost incurred by that authority in making good the damage. If the damage referred was caused by a motor vehicle or vessel, the owner and the driver of the motor vehicle or, as the case may be, the owner and the master of the vessel are jointly and severally liable for the damage.

Ordinary wear and tear caused by reasonable use of a public road is excluded, except where the road was closed.

12 Road Maintenance

Council's road network continues to increase as new roads are created and previously unsealed roads become sealed. As a result Council's maintenance activities continue to increase. Other factors including aging infrastructure, increasing vehicle weights and increased customer expectation has also increased the required maintenance frequency and required performance of Council roads.

Council has a number of roads that have a narrow seal, this is a seal of 3m, a single carriageway. These roads do not meet current Transport Standards, are a safety risk and are nearing their end of life. Council intends to undertake full reconstruction of these roads to increase seal with to at least 7 metres, however, this is a significant investment both in time and money.

13 Identifying And Prioritising Road Works

Council prioritises its work program by using a points-based system to evaluate risk. This system considers: road hierarchy, location, hazard type and road condition.

Calculated Road Risk Ranking Scores used to prioritise roadworks with the highest score having the highest priority.

The formula used to determine the Risk Ranking of a road is:

Road Risk Ranking (/75) = Hierarchy (/25) + Generic Event Risk (/25) + Condition Assessment (/25)

The process in determining the Risk Rating of a particular Road is given below

Step 1: Determine Hierarchy Rating (Allocated Points /25)

| Hierarchy | Description | Allocated Points |
|-----------|---------------------------|------------------|
| Class 1 | Arterial Road | 25 |
| Class 2 | Major collector Road | 20 |
| Class 3 | Minor collector Road | 15 |
| Class 4 | s 4 Local Access Road | |
| Class 5 | Convenience link | |
| Class 6 | Not Maintained by Council | 0 |

Step 2: Determine the Likelihood and Consequence of the event occurring **(Score/25)**

• **PART A:** Worst case event – Assess the worst that can happen in each category as a result of the asset in its current condition. The worst Assessment becomes the "Consequence", in the risk matrix in PART B.

| Assessment | Public Safety & Danger | Political | Environmental | Financial | Customers | Public Health |
|--|---|--|--|---|---|--|
| Catastrophic Very High impact with very significant Consequences | Fatality or other life threatening incidents. | Sustained adverse media, Loss of confidence in Council. State / Federal MP's involved. | Large scale adverse impact to Environment. Prosecution for negligent act. | >\$1M Rehab Costs / lost revenue | Affects > 10% Shire, Widespread complaints | Widespread Properties unable to access medical facilities / services |
| Severe High impact with major Consequences | Hospitalisation with multiple serious injuries | Considerable community concern, adverse local media, Mayor / GM Involved. | Significant adverse impact to Environment. Prosecution. | \$200k Rehab Costs | Affects 2%- 10% Shire. Multiple complaints | Multiple properties unable to access medical facilities |
| Moderate Noticeable Impact with visible Consequences | Injury requiring 1 or more day/s off work | Some public concern, multiple letters / Calls received, multiple Councillors involved | Localised adverse impact to Environment. Compliance breach | >\$50k Rehab Costs / lost revenue | Affects less than 2% (100 people). Some complaints | Few properties unable to access medical facilities / services |
| Minor Minor impact with some Consequences | Injury requiring medical treatment (e.g. cut require stiches) | Minor public concern, Isolated letters / Calls received. Single Councillor involved | Short term reversible impact to Environment. | >\$20k Rehab Costs/ lost revenue | Affects less than 1% (50 people). Isolated complaints | Single property unable to access medical facilities / services |

| Insignificant Very Minor impact with Insignificant Consequences | Injury requiring first aid (e.g. Abrasions) | Minimal public concern, single letter / Call received | Temporary Environmental degradation and immediately restored | Minor rehab costs/ lost revenue | Affects less than 10 people. A single complaint | Time to access medical facilities / services is increased |
|---|---|---|---|---------------------------------------|---|---|
|---|---|---|---|---------------------------------------|---|---|

• PART B: Decide likelihood of the event occurring and therefore calculate the "Event Risk" score

| | Very Likely | Likely | Could Happen | Unlikely | Very Unlikely |
|--|----------------|----------------|----------------------|---------------|---------------|
| RISK | >90% chance in | >50% chance in | Less than 50% chance | Less than 50% | Less than 10% |
| | next 12 months | next 12 months | in next 12 months | chance ever | chance ever |
| Catastrophic | 25 | 20 | 15 | 10 | 5 |
| Very High impact with very significant Consequences | | | | | |
| Severe | | | | | |
| | 20 | 16 | 12 | 8 | 4 |
| | | | | | |
| High impact with major | | | | | |
| Consequences | | | | | |
| Moderate | | | | | |
| | 15 | 12 | 9 | 6 | 3 |
| | | | | | |
| Noticeable Impact with visible | | | | | |
| Consequences | | | | | |
| Minor | | | | | |
| | 10 | 8 | 6 | 4 | 2 |
| | | | | | |
| Minor impact with some | | | | | |
| Consequences | | | | | |
| Insignificant | | | | | |
| Very Minor impact with Insignificant Consequences | 5 | 4 | 3 | 2 | 1 |

| _ | | | | | | |
|----------------|---|---|---|--|--|--|
| Cond | dition Assessment | Catastrophic (25) | Severe (20) | Moderate (15) | Minor (10) | Insignificant (5) |
| Issue | Description | Very High impact with very significant Consequences | High impact with major Consequences | Noticeable Impact with visible Consequences | Minor impact with some Consequences | Very Minor impact with Insignificant Consequences |
| a | Drainage | Unshaped or non- existent | borly shaped, significant erosion | nevenness, some erosion | minor erosion, works ok | ormed drains minimal erosion |
| Structura | Cross Section Shape / Road Profile | Severe Irregularities impeding drainage causing localised ponding. Water flows to the centre on the road. | Obvious development of irregularities that will impede drainage and form depressions | Some unevenness with Camber (Less than 2%) | Good Camber (2%- 4%) | Well formed Camber (>4%) |
| | Ride quality Roughness Corrugations | IRI* Sealed <2 , unsealed <4 | IRI Sealed <4 , unsealed <8 | IRI Sealed <6 , unsealed <12 | IRI Sealed <8 , unsealed <14 | IRISealed >8 , unsealed >14 |
| Serviceability | Local Road Surface Defects | >10% area trafficable area affected. >100mm deep | >10% area trafficable area affected. >50mm deep | 5%-10% area trafficable area affected. <15mm deep | 1%- 5% area trafficable area affected. <15mm deep | < 1% area trafficable area affected. <15mm deep |
| Se | Signage and Furniture, Line marking | Dangerous condition / location, Road signs & many guide posts missing | Too close to road, Signs / posts in poor conditions, lines need marking | Fair condition, though some appropriately placed | Reasonable condition and appropriately placed | In good condition and appropriately placed |
| × | Rutting | Extreme Rutting > 4m long, >100mm Deep | Heavy patches > 4m long, >50mm Deep | Moderate patches > 4m long, <50mm Deep | Moderate patches > 4m long, <15mm Déep | Small Localised, < 4m long, <15mm deep |
| Safety | Edge drop off / Edge Break | Extreme Edge Break > 300mm, drop, >75mm | Heavy Edge Break > 300mm, drop, <75mm | Moderate Edge Break > 300mm, drop, <50mm | Minor Edge Break > 200mm, drop, <30mm | Good Edge Break <100mm, drop, >10mm |

Step 3: Condition Assessment Criteria (Score/25)

14 Operations General

When managing a road network there are two areas where funds need to be injected. They are:

- Asset Preservation: Maintenance of the road network, including Reactive Maintenance (i.e., pothole patching), Programmed Maintenance (i.e. Grading), and Renewals (i.e. Resealing and Resheeting); and
- Asset Enhancement: Improvements to the road network, including improvements to geometry, pavement strengthening, road widening and sealing of unsealed roads (ie, road reconstruction)

Strategies that are currently adopted by Council for the road network include:

- An annual roads inspection program to identify and assess the condition, quality, function and safety of the roads surface as well as drainage, signage, and to log and report any defects.
- Ongoing vehicle count program to keep up to date information on road usage and heavy vehicle monitoring.
- An unsealed road maintenance grading program which seeks to achieve each road in the shire graded either every year, every second year or every third year with an average return frequency of 18 months but no longer than three (3) years.
- Road maintenance grading for unsealed roads to commence after harvest season (based on road hierarchy), in preparation for the following maintenance grade or harvest season. This ensures that the longevity of the road asset is maintained. Council may consider the frequency and duration of harvests and adjust its maintenance program accordingly.
- A shoulder maintenance grading programme which is integrated with the bitumen resealing programme where possible to achieve the serviceability benefits of a wider seal.
- Capital works road construction program to widen existing sealing to the correct standards, and lay new seal on identified unsealed roads.
- Laser profiling program to get an independent, accurate gauge of the roads roughness that can be used to compare roads, prioritise work and aid in grant applications.
- Grid removal program to remove cattle grids that are no longer required and/or are not up to standard and/or a safety hazard.
- Road side verge slashing program funded by the RFS to reduce fire hazards.

- Road side tree lopping/vegetation removal program to proactively remove potential hazards or debris that could fall on the road, or reduce road safety.
- Road side verge spraying program, to kill off, inhibit and prevent growth of grass and weeds on the sides of the road and at intersections. This intends to aid in shoulder grading on sealed roads, protect drainage, reduce the fire risk, increase sight distances and encourage animals to stay away from the road.
- A bitumen resealing programme to ensure the protective bitumen surface course of any road doesn't attain an age of more than 20 years in the local road, 15 years on Regional roads, and 10 years in the more highly trafficked town street areas. This is dependent on the condition of the existing seal.
- An over-arching Council objective of sealing all roads with hierarchy 1-3 fully sealed by 2050.
- A kerb and gutter construction and reconstruction programme to ensure that every residential property in the urban area (excluding rural residential areas) has a kerbed and guttered frontage and that the road contains stormwater runoff to prescribed service level standards.
- Footpath construction and reconstruction programme to ensure that every residential street in the urban area (excluding rural residential areas) has a designated footpath on at least one side of the street to prescribed service level standards.
- Temporary closure of public roads to ensure road user safety and to protect the road asset.

Road Zones

Narromine LGA is divided into three road zones which is illustrated in the figure below.



Roads Inspection Program

A planned inspection system is considered essential to:

- Effectively manage the maintenance program;
- Enable Council to be proactive in maintaining the road infrastructure (thereby reducing complaints and enhancing Council's public image); and
- Provide a risk management system in order to reduce public liability claims.

In deciding if a defect is a hazard, the following needs to be considered:

- The road hierarchy and function (condition, geometry, formation / sealed widths, etc);
- The location of the defect (i.e., in wheel path);
- The effect on pedestrians, cyclists and motor cyclists and other road users;
- The position or proximity in relation to schools, hospitals, aged care facilities, businesses, pedestrian and cycle paths etc;
- Traffic volume (AADT);
- Sharp bends or crests i.e. sight distance issues;
- Speed limit; and
- Weather conditions, soil conditions, vegetation and the environment.

Council undertakes the following road inspections:

- Hierarchy 1 roads are inspected monthly
- Hierarchy 2 5 roads are inspected every 12 months.
- Hierarchy 6 roads are not inspected

Council staff, particularly members of the Engineering Department regularly travel Council Roads and undertake ad-hoc inspections. Safety concerns of hazards are reported immediately and inspected.

Road Count Program

A rolling program occurs to assist Council to maintain up to date information about usage on Council's road network.

Information gathered includes:

- AADT (Average annual daily traffic) measured as two axle pairs;
- VPD (Vehicles per day) measured as vehicle regardless of axles;
- Speed of vehicles;
- Direction of vehicles;
- % heavy vehicles;
- Vehicle class
- Design Equivalent Single Axis

Capital Road Works: New Road Construction or Upgrades

The 10 Year capital works programs are locked in only for the current and next financial year. Roads identified for capital works from year 2 to year 10 will have to go through an annual re-ranking based on:

- Priority due to safety;
- Condition assessments based on the current year's road inspection data; and
- Future growth or change in traffic behaviour.

The Capital works program is entirely dependent on external grant funding and is susceptible fluctuations outside of Council control.

The program itself is located within the Transport Asset Management Plan which is updated annually.

Road Renewals

Resealing

The aim of the Resealing program is to upgrade /renew the entire sealed network. The renewal program is based on condition assessment of the wearing surface. Where possible the following criteria will apply:

- Once every 20 years for Local roads;
- Once every 15 years for regional roads; and
- Once every 10 years for town streets in Narromine, Trangie, and Tomingley.

Resheeting

The 10-Year resheeting programs are "locked in" only for the current and next financial year. Roads identified for resheeting from year 2 to year 10 will have to go through an annual re- ranking based on priority due to safety and condition assessments based on the current year's road inspection data.

Reactive Road Maintenance

There is an annual budget set for reactive roads maintenance based on history of previous years. This budget allows for work such as pot hole repair, road patching, removal of debris, and to address imminent safety issues that may present during the year that require immediate attention.

Programmed Road Maintenance

The programmed maintenance program for roads is a rolling 3-year program whereby each road, depending on its hierarchy, will receive appropriate maintenance required to keep it up to the minimum standard, subject to funds being available. "Win rows" and "back cuts" will be levelled to increase road user safety.

a) Sealed roads

Sealed roads will receive shoulder grading and drainage and vegetation clearing in the table drains (on average 6 passes with a grader on each side). It is budgeted that on average a grader crew will complete 2km /day on each side.

b) Unsealed roads

Unsealed roads will receive a full width maintenance grade including the drainage and vegetation clearing in the table drains (on average 9 passes with a grader). It is budgeted that on average grader crew will complete 2km /day for an average 8m wide formation, since most Council's roads require major formation work.

15 Levels Of Service

Council is committed to ensuring roads are safe for traveling vehicles at all times and conditions. In additional to the planned inspections listed above, Council will undertake inspections and repairs on road defects and safety hazards reported either internally or externally. This section details the target response times for hazards and defects and presents some examples of potential defects.

Road maintenance can occur in two methods:

- Defects to be repaired under planned maintenance (road or shoulder grading) or within a planned program of work (renewal or capital).
- Defects that require immediate action as they may be hazardous or represent a risk of asset deterioration. These are done as reactive maintenance (patching, filling pot holes).

Where possible, defects that require immediate action are dealt with by repairing or making safe the defect at the time of inspection/identification. If this isn't possible, the ensuing action must involve prompt erection of warning signs (as outlined in Council's standard "Traffic Control Plans) followed by repair as soon as practicable.

When undertaking repairs Council considers the upcoming, scheduled work on the road to determine the appropriate immediate repair option.

While Council will endeavour to meet the response times listed below, if at any time available resources are not sufficient to ensure maintenance works are carried out within the response times then warning signage and/or safety barricading will be installed until such time as the work is completed.

Target Response Times

The target response times serve as a benchmark and timeline for Council, demonstrating a commitment to the community to promptly complete repair works. These targets represent the maximum timeframe within which Council has committed to addressing any defects.

When a defect is reported to the engineering team, whether through an internal or external party there is a two staged response:

- a. Inspection and assessment of the service fault;
- b. Schedule and repair of defect.

The following table shows the target response time for varying defects. The risk rating is determined is accordance with the Road Prioritization Matrix in Section 13. The response time is working days. Hierarchy is as-per Appendix A.

| Hierarchy | Risk Score | Target Response Time (working days) |
|-----------|-------------|--|
| 1 | <10 | 15 |
| 1 | >10 but <20 | 10 |
| 1 | >20 | 1 |
| 2 | <10 | 30 |
| 2 | >10 but <20 | 20 |
| 2 | >20 | 2 |
| 3 | <10 | 60 |
| 3 | >10 but <20 | 40 |
| 3 | >20 | 10 |
| 4 | <20 | 90 |
| 4 | >20 | 10 |
| 5 | <20 | 90 |
| 5 | >20 | 10 |

Some examples of failures to elicit emergency works are listed below, these would be classified as >20 on the risk rating system.

- Fallen tree or street furniture obstructing traffic path of roadway.
- Hazardous material such as oil, fuel, concrete or dangerous chemicals spilt on road.
- Isolated section of loose stones greater than 10m2 on a sealed road surface in 100km/h speed zone and in the near vicinity of a bend. Excluding roads sealed/resurfaced in the week prior to defect identification.
- Dead animal located on trafficable path of roadway.
- Significant erosion of road pavement due to culvert failure.

Defect Examples

The following section provides examples of typical defects that can be found within the road network.

Sealed Road – Pot-holes



Remediation options

| Temporary | Permanent |
|--|---|
| Fill with Cold MixJet-patcher | Reconstruct section of road (excavate and replace seal) |
Sealed Road – Edge Drop



| Temporary | Permanent |
|--|---|
| Shoulder GradingJet-patcher | Reconstruct section of road (excavate and replace seal) |
| | |

Sealed Road – Edge Break



Remediation options

Temporary

- Shoulder Grading
- Jet-patcher

Permanent

 Reconstruct section of road (excavate and replace seal)

Sealed Road – Pavement Failure





Remediation options

| Temporary | Permanent |
|--|---|
| Traffic control Patch as pot hole to make safe Jet-patcher Temporary load restriction or road closure | Reconstruct section of road (excavate and replace seal) |

Sealed Road – Crocodile cracking



| Temporary | Permanent |
|---------------------------------|--|
| Jet-patcher | Wearing surface renewal Reconstruct section of road (excavate and replace seal) |

Sealed Road – Pavement rutting / Shoving



Remediation options

| Temporary | Permanent |
|---|--|
| MonitorJet-patcher | Review drainage Reconstruct section of road (excavate and replace seal) |

Sealed Road – Shoulder Defects



| Temporary | Permanent |
|-----------|---|
| • Signage | Shoulder grading Shoulder resheeting Reconstruct section of road consider stabilisation |

Sealed Road – Flushing / Bleeding



Remediation options

| Temporary | Permanent |
|--|---|
| Reseal with Jet- patcher | Reseal Reconstruct section of road |

Sealed Road – Loose stone



Remediation options

| Temporary | Permanent |
|-----------------|---|
| Street Sweeping | Reseal section of road Reconstruct section of road (excavate and replace seal) |

Sealed Road – Fitting surface levels



Remediation options

| Temporary | Permanent |
|--------------------|--|
| Fill with cold mix | Reseal of reconstruct section of road around pit |

Road Guide Posts Deficiency



Remediation options

Replace sign.

Road Signs Deficiency



Remediation options

Replace sign.

Unsealed Road – Pot-hole / Roughness



Remediation options

| Temporary | Permanent |
|---|--------------|
| Maintenance GradeGravel patching | Resheet road |

Unsealed Road – Corrugations



| Temporary | Permanent |
|---|--------------|
| Maintenance GradeGravel patching | Resheet road |

Unsealed Road – Rutting



| Temporary | Permanent |
|-------------------|----------------------------------|
| Maintenance Grade | Resheet road |
| Gravel patching | |

Unsealed Road – Scouring



Remediation options

| Temporary | Permanent |
|---|--------------|
| Maintenance GradeGravel patching | Resheet road |

Unsealed Road – Water ponding



| Temporary | Permanent |
|---|----------------------------------|
| Maintenance GradeGravel patching | Resheet road |

16 Implementation

General

Implementation of roads operations generally comprise of the following:

- Maintenance Works Generally from July to December
- Capital Works December to June

Capital works are conducted in the warmer summer months when the majority of harvest traffic has decreased, and temperatures are high enough for road pavement seals, without the requirement to use excessive additives.

Grading

Council has grading/resheeting teams as well as a construction/capital works grading team. Additional staff and contractors will be engaged on an as-need basis.

Contract Plant

Generally long-term contract plant is engaged by Council under a period contract. Other plant may be engaged under a purchase order.

16.1 Contract Works

The major contracts for roadwork are:

- Bitumen sealing contract, including supply of sealing aggregates;
- Emulsion supply (for bitumen patching etc);
- Line Marking;
- Tree Lopping;
- Gravel Testing;
- Stabilisation works;
- Traffic Control; and
- Winning, crushing, pushing and supply of gravel.

Some works (typically culverts, kerb and gutter, footpaths, traffic islands, fencing) are undertaken by (generally) local contractors under Council supervision.

Narromine Shire Council – Road Hierarchy

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|--------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Alison's Road | 1 | No | | 4 | 9 | 2014 | once/2yrs | once/3yrs |
| Backwater Road | 2 | Yes | 3 | 3 | 124 | 2013 | once/yr | once/3yrs |
| Belmont Road | 3 | No | | 4 | 7 | 2023 | once/yr | once/3yrs |
| McNamara's Lane | 4 | No | 2 | | | | - | once/3yrs |
| Back Tomingley West Road | 5 | No | | 5 | | | once/3yrs | once/3yrs |
| Belowrie Road | 6 | No | | 4 | 31 | 2014 | once/3yrs | once/3yrs |
| Bootle's Road | 7 | No | | 5 | 2 | 2022 | once/3yrs | once/3yrs |
| Brummagen Road | 8 | No | | 5 | 5 | 2022 | once/3yrs | once/3yrs |
| Boggy Plains Road | 9 | Yes | | 4 | 6 | 2022 | once/yr | once/3yrs |
| Brennan's Lane | 10 | No | | 5 | 14 | 2013 | once/3yrs | once/3yrs |
| Brown's Lane | 11 | No | | 5 | 1 | 2022 | once/3yrs | once/3yrs |
| Bulgandramine Road | 12 | No | 3 | | 8 | 2014 | - | once/3yrs |
| Bundemar Road | 13 | No | | 4 | 16 | 2013 | once/3yrs | once/3yrs |
| Burroway Road | 14 | Yes | 2 | | 378 | 2013 | - | once/3yrs |
| Anglebone Road | 15 | No | | 5 | | | once/3yrs | once/3yrs |
| Buddah Lake Road | 16 | No | | 4 | 16 | 2014 | once/2yrs | once/3yrs |
| Cathundral Road | 17 | No | | 5 | | | once/3yrs | once/3yrs |
| Cathundral Bogan Road | 18 | No | 3 | 4 | 58 | 2014 | once/2yrs | once/3yrs |
| Ceres Siding Road | 19 | No | | 4 | 77 | 2014 | once/2yrs | once/3yrs |
| Cobboco Road | 20 | Yes | 3 | 4 | 14 | 2022 | once/2yrs | once/3yrs |
| Ashgrove Road | 21 | No | | 6 | | | Slash once/year | Slash once/year |

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|----------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Cornucopia Road | 22 | No | | 4 | 46 | 2014 | once/2yrs | once/3yrs |
| Craigie Lea Lane | 23 | No | | 4 | 6 | 2022 | once/2yrs | once/3yrs |
| Currington's Road | 24 | No | | 5 | | | once/3yrs | once/3yrs |
| Cannon's Road | 25 | No | | 6 | | | Slash once/year | Slash once/year |
| Dandaloo Road | 26 | Yes | 2 | | 114 | 2020 | - | once/3yrs |
| Dappo Road | 27 | No | 3 | 5 | 25 | 2013 | once/3yrs | once/3yrs |
| Dilladerry Road | 28 | No | | 4 | 23 | 2014 | once/2yrs | once/3yrs |
| Dubbo-Burroway Road | 29 | Yes | 2 | | 357 | 2013 | - | once/3yrs |
| Dubbo Collie Road | 30 | No | 2 | | 122 | 2014 | - | once/3yrs |
| Dulla Dulla Road | 31 | No | | 4 | 64 | 2013 | once/2yrs | once/3yrs |
| Drew's Road | 32 | No | | 5 | | | once/3yrs | once/3yrs |
| Derribong Road | 33 | No | | 5 | | | once/3yrs | once/3yrs |
| Castle's Road | 34 | No | | 5 | | | once/3yrs | once/3yrs |
| Davis Road | 35 | No | | 5 | | | once/3yrs | once/3yrs |
| Ellengerah Road | 36 | Yes | 3 | 4 | 15 | 2013 | once/2yrs | once/3yrs |
| Enmore Road | 37 | Yes | 3 | | 55 | 2014 | - | once/3yrs |
| Euromedah Road | 38 | No | 3 | 4 | | | once/yr | once/3yrs |
| Ewenmar Road | 39 | No | | 4 | | | once/2yrs | once/3yrs |
| Edmonstone's Road | 40 | No | | 6 | | | Slash once/year | Slash once/year |
| Fairview Siding Road | 41 | No | | 4 | 3 | 2023 | once/2yrs | once/3yrs |
| Farrendale Road | 42 | Yes | 3 | 3 | 4 | 2023 | once/yr | once/3yrs |
| Foreman's Lane | 43 | No | | 5 | 49 | 2013 | once/3yrs | once/3yrs |

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|-------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Frecklington's Crossing | 44 | Yes | 3 | 4 | 16 | 2013 | once/yr | once/3yrs |
| Gibson's Lane | 45 | No | | 4 | 42 | 2013 | once/yr | once/3yrs |
| Gordon's Lane | 46 | No | | 6 | | | Slash once/year | Slash once/year |
| Griffith's Road | 47 | No | | 6 | | | Slash once/year | Slash once/year |
| Haberworth Lane | 48 | No | 5 | 5 | | | once/3yrs | once/3yrs |
| Herring's Lane | 49 | No | | 5 | 9 | 2014 | once/3yrs | once/3yrs |
| Kyalite Road | 50 | No | | 4 | 31 | 2013 | once/yr | once/3yrs |
| Jones Road | 51 | No | | 6 | | | Slash once/year | Slash once/year |
| Lincoln Lane | 52 | No | | 4 | | | once/3yrs | once/3yrs |
| Lovers Lane | 53 | No | | 5 | | | once/3yrs | once/3yrs |
| McLeod's Lane | 54 | No | | 5 | 14 | 2013 | once/3yrs | once/3yrs |
| Mungery Hall Road | 55 | No | | 6 | | | Slash once/year | Slash once/year |
| McNiven's Road | 56 | No | | 5 | | | once/2yrs | once/3yrs |
| Merritt's Lane | 57 | No | | 4 | 41 | 2014 | once/2yrs | once/3yrs |
| Merrinong Road | 58 | No | | 6 | | | Slash once/year | Slash once/year |
| Mungeribah Lane | 59 | Yes | 3 | 3 | 69 | 2014 | once/yr | once/3yrs |
| Morris Road | 60 | No | | 5 | 19 | 2014 | once/3yrs | once/3yrs |
| Mumble Peg Road | 61 | No | | 4 | | | once/2yrs | once/3yrs |
| Montgomery's Road | 62 | No | | 5 | 6 | 2022 | once/3yrs | once/3yrs |
| Narwonah Road | 63 | Yes | 3 | 4 | 14 | 2022 | once/yr | once/3yrs |

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|-------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Newhaven Road | 64 | No | 3 | 3 | | | once/yr | once/3yrs |
| Momo Road | 65 | No | | 4 | 23 | 2014 | once/3yrs | once/3yrs |
| Gundong (Obley) Road | 66 | No | 2 | | 113 | 2023 | - | once/3yrs |
| O'Leary's Lane | 67 | No | | 4 | | | once/yr | once/3yrs |
| Mandi Road | 68 | No | | 6 | | | Slash once/year | Slash once/year |
| Papworth Lane | 69 | Yes | | 3 | 64 | 2013 | once/yr | once/3yrs |
| Peak Hill Railway Road | 70 | Yes | 3 | | | | - | once/3yrs |
| Pinedene Road | 71 | No | 3 | 3 | | | once/yr | once/3yrs |
| Pineview Road | 72 | No | | 4 | 7 | 2013 | once/2yrs | once/3yrs |
| Raeburn Lane | 73 | Yes | 3 | 5 | 15 | 2023 | once/3yrs | once/3yrs |
| Richardson's Road | 74 | No | | 5 | | | once/3yrs | once/3yrs |
| Rocky Point Road | 75 | No | | 5 | | | once/3yrs | once/3yrs |
| Sharkey's Lane | 76 | Yes | | 5 | 3 | 2022 | once/2yrs | once/3yrs |
| Stevenson's Road | 77 | No | | 6 | | | Slash once/year | Slash once/year |
| Swift's Lane | 78 | No | 3 | 5 | 30 | 2014 | once/3yrs | once/3yrs |
| Trangie Cemetery Road | 79 | No | 3 | 4 | | | once/2yrs | once/3yrs |
| Tantitha Road | 80 | Yes | 3 | 3 | 46 | 2023 | once/yr | once/3yrs |
| Temoin Road | 81 | No | | 5 | | | once/3yrs | once/3yrs |
| Tink's Lane | 82 | Yes | 3 | 4 | 11 | 2013 | once/yr | once/3yrs |
| Tyrie Road | 83 | Yes | 3 | 3 | 41 | 2014 | once/yr | once/3yrs |
| Tomkin's Road | 84 | No | | 5 | | | once/3yrs | once/3yrs |
| Trangie Showground Road | 85 | No | | 3 | | | once/yr | once/3yrs |

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|--------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Waikare Road | 86 | No | | 5 | | | once/3yrs | once/3yrs |
| McCarron's Road | 87 | No | | 5 | | | once/3yrs | once/3yrs |
| Warren Road | 88 | Yes | 2 | | 162 | 2022 | - | once/3yrs |
| Weemabah Road | 89 | No | 3 | | 30 | 2023 | - | once/3yrs |
| Widgeree Road | 90 | No | 3 | | 70 | 2014 | - | once/3yrs |
| Willydah Road | 91 | Yes | 3 | | 64 | 2014 | - | once/3yrs |
| Waterloo Road | 92 | No | | 4 | | | once/2yrs | once/3yrs |
| Westbury Road | 93 | No | | 5 | | | once/2yrs | once/3yrs |
| Webb's Siding Road | 94 | Yes | 2 | | 300 | 2017 | | once/3yrs |
| Wyanga Silo | 95 | No | | 6 | | | Slash once/year | Slash once/year |
| Hando's Road | 96 | No | | 6 | | | Slash once/year | Slash once/year |
| Wambianna Road | 97 | No | 2 | | | | - | once/3yrs |
| Reid's Road | 98 | No | | 6 | | | Slash once/year | Slash once/year |
| Emogandy Road | 99 | No | | 5 | | | once/3yrs | once/3yrs |
| Sydney-Smith Road | 100 | No | | 6 | | | Slash once/year | Slash once/year |
| Howe's Road | 101 | No | | 6 | | | Slash once/year | Slash once/year |
| Woodside Road | 102 | No | | 5 | | | once/3yrs | once/3yrs |
| Old Backwater Road | 103 | No | 2 | | 262 | 2019 | - | once/3yrs |
| Bywannah Road | 104 | No | | 6 | | | Slash once/year | Slash once/year |

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|-----------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Barden's Road | 105 | No | | 6 | | | Slash once/year | Slash once/year |
| Eureka Road | 106 | No | | 4 | 5 | 2014 | once/3yrs | once/3yrs |
| Job's Road | 107 | No | | 5 | | | once/2yrs | once/3yrs |
| Lockwood Road | 108 | No | | 5 | | | once/3yrs | once/3yrs |
| Trangie Saleyard Road | 109 | No | 2 | | | | - | once/3yrs |
| Dawe's Crossing | 110 | No | | 5 | | | once/3yrs | once/3yrs |
| Thornycroft Road | 111 | No | | 5 | | | once/2yrs | once/3yrs |
| Jefferies Road | 112 | No | 3 | | 24 | 2014 | - | once/3yrs |
| Jamea Road | 113 | No | | 4 | 18 | 2013 | once/2yrs | once/3yrs |
| Tyrie North Road | 114 | No | 3 | 5 | 37 | 2013 | once/3yrs | once/3yrs |
| Day's Road | 115 | No | | 6 | | | Slash once/year | Slash once/year |
| Tomingley West Road | 116 | No | 3 | | 74 | 2014 | - | once/3yrs |
| Wyanga Road | 117 | Yes | | 4 | 26 | 2013 | once/2yrs | once/3yrs |
| Wilson's Lane | 118 | No | | 5 | | | once/3yrs | once/3yrs |
| Harrison's Road | 119 | No | | 6 | | | Slash once/year | Slash once/year |
| Hargreaves Road | 120 | No | | 5 | 19 | 2013 | once/3yrs | once/3yrs |
| Ward's Road | 121 | No | | 5 | | | once/2yrs | once/3yrs |
| Macquarie View Road | 122 | No | | 4 | 58 | 2014 | once/2yrs | once/3yrs |
| Hamilton's Road | 123 | Yes | | 4 | | | once/2yrs | once/3yrs |
| Bignell's Road | 124 | No | | 5 | | | once/3yrs | once/3yrs |
| Strathallyn Lane | 125 | Yes | 3 | 4 | 43 | 2013 | once/2yrs | once/3yrs |

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|--------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Heywood's Road | 126 | No | | 5 | | | once/3yrs | once/3yrs |
| Hill's Road | 127 | No | | 6 | | | Slash once/year | Slash once/year |
| Springbank Road | 128 | No | | 6 | | | Slash once/year | Slash once/year |
| Greenvale Road | 129 | No | | 6 | | | Slash once/year | Slash once/year |
| Corry Road | 130 | Yes | 2 | | 211 | 2014 | - | once/3yrs |
| Elmore Road | 131 | No | | 5 | | | once/3yrs | once/3yrs |
| Gin Gin Weir Road | 132 | No | | 5 | | | once/yr | once/3yrs |
| Woodleigh Road | 133 | No | | 5 | | | once/2yrs | once/3yrs |
| Heckendorf's Access | 134 | No | | 6 | | | Slash once/year | Slash once/year |
| Ningawalla South Road | 135 | No | | 6 | | | Slash once/year | Slash once/year |
| Trangie Rubbish Tip Road | 136 | No | | 3 | 13 | 2021 | once/2yrs | once/3yrs |
| Wingfield Road | 137 | No | | 5 | | | once/3yrs | once/3yrs |
| Noondoo Road | 138 | No | | 6 | | | Slash once/year | Slash once/year |
| Jones Circuit | 139 | No | 3 | 3 | | | once/2yrs | once/3yrs |
| River Drive | 140 | No | 3 | | | | - | once/3yrs |
| Highpark Road | 141 | No | 3 | | 181 | 2014 | - | once/3yrs |
| Gainsborough Road | 142 | Yes | 1 | 1 | 47 | 2014 | once/yr | once/3yrs |
| Strahorns Access Road | 143 | No | | 5 | | | once/3yrs | once/3yrs |
| Rockbourne Road | 144 | No | | 6 | | | Slash once/year | Slash once/year |

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|-------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| Wynsley Lane | 145 | No | | 5 | | | once/3yrs | once/3yrs |
| Sharah's Access Road | 146 | No | | 6 | | | Slash once/year | Slash once/year |
| Corry Access | 147 | No | | 6 | | | Slash once/year | Slash once/year |
| Rosebank Road | 148 | No | 3 | | | | - | once/3yrs |
| Tomingley Cemetery Road | 149 | No | 4 | 6 | | | Slash once/year | Slash once/year |
| Rich's Road | 150 | No | | 5 | | | once/2yrs | once/3yrs |
| Yagobie Road | 151 | No | | 6 | | | Slash once/year | Slash once/year |
| Schroeder's Access | 152 | No | | 6 | | | Slash once/year | Slash once/year |
| Barling's Road | 153 | Yes | | 5 | 1 | 2021 | once/3yrs | once/3yrs |
| Sahara Road | 154 | No | 3 | 4 | 14 | 2013 | once/3yrs | once/3yrs |
| Sissian Road | 155 | No | | 6 | | | Slash once/year | Slash once/year |
| Wilson's Lane | 156 | No | | 3 | | | once/2yrs | once/3yrs |
| Park Hill Road | 157 | No | | 6 | | | Slash once/year | Slash once/year |
| Ralbi Road | 158 | No | | 6 | | | Slash once/year | Slash once/year |
| Glenroy Road | 159 | No | | 5 | | | once/3yrs | once/3yrs |
| Links Road | 160 | No | | 5 | | | once/3yrs | once/3yrs |
| Young Road | 161 | No | | 6 | | | Slash once/year | Slash once/year |

| Road Name | Road No. | School Bus Route | Road Classification Sealed Section | Road Classification Unsealed Section | AADT Used | Year Traffic Data Collected | Freq of Grade (unsealed only) | Freq of Shoulder grade or maintenance |
|------------------------------------|-------------|------------------------|---|---|--------------|--------------------------------------|--|--|
| George Street | 162 | No | | 4 | | | once/3yrs | once/3yrs |
| Morgan Street | 163 | No | | 3 | | | once/yr | once/3yrs |
| Villeneuve Road | 164 | Yes | 3 | | | | - | once/3yrs |
| Wallaby Road | 170 | No | | 4 | | | once/2yrs | once/3yrs |
| Harris Street (Rural section) | 413 | No | | 4 | | | once/3yrs | once/3yrs |
| Regional Roads | | 1 | 1 | | | 1 | 1 | |
| Eumungerie Road (MR572) | | Yes | | 1 | | | | |
| Peak Hill Road (MR89) | | Yes | | 1 | | | | |
| Trangie Dandaloo Road (MR347 D) | | No | | 1 | | | | |
| Trangie - Collie Road (MR347 C) | | Yes | | 1 | | | | |
| Tullamore Road (MR354) | | Yes | | 1 | | | | |