

# Liverpool Plains Shire Council





## ROADS

# ASSET MANAGEMENT PLAN



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## ABBREVIATIONS

<b>AAAC</b>	Average annual asset consumption
<b>AMP</b>	Asset management plan
<b>ARI</b>	Average recurrence interval
<b>BOD</b>	Biochemical (biological) oxygen demand
<b>CRC</b>	Current replacement cost
<b>CWMS</b>	Community wastewater management systems
<b>DA</b>	Depreciable amount
<b>DoH</b>	Department of Health
<b>EF</b>	Earthworks/formation
<b>IRMP</b>	Infrastructure risk management plan
<b>LCC</b>	Life Cycle cost
<b>LCE</b>	Life cycle expenditure
<b>MMS</b>	Maintenance management system
<b>PCI</b>	Pavement condition index
<b>RV</b>	Residual value
<b>SS</b>	Suspended solids
<b>vph</b>	Vehicles per hour

## GLOSSARY

### **Annual service cost (ASC)**

An estimate of the cost that would be tendered, per annum, if tenders were called for the supply of a service to a performance specification for a fixed term. The Annual Service Cost includes operating, maintenance, depreciation, finance/ opportunity and disposal costs, less revenue.

### **Asset class**

Grouping of assets of a similar nature and use in an entity's operations (AASB 166.37).

### **Asset condition assessment**

The process of continuous or periodic inspection, assessment, measurement and interpretation of the resultant data to indicate the condition of a specific asset so as to determine the need for some preventative or remedial action.

### **Asset management**

The combination of management, financial, economic, engineering and other practices applied to physical assets with the objective of providing the required level of service in the most cost effective manner.

### **Assets**

Future economic benefits controlled by the entity as a result of past transactions or other past events (AAS27.12).

Property, plant and equipment including infrastructure and other assets (such as furniture and fittings) with benefits expected to last more than 12 month.

### **Average annual asset consumption (AAAC)\***

The amount of a local government's asset base consumed during a year. This may be calculated by dividing the Depreciable Amount (DA) by the Useful Life and totalled for each and every asset OR by dividing the Fair Value (Depreciated Replacement Cost) by the Remaining Life and totalled for each and every asset in an asset category or class.

### **Brownfield asset values\*\***

Asset (re)valuation values based on the cost to replace the asset including demolition and restoration costs.

### **Capital expansion expenditure**

Expenditure that extends an existing asset, at the same standard as is currently enjoyed by residents, to a new group of users. It is discretionary expenditure, which increases future operating, and maintenance costs, because it increases council's asset base, but may be associated with additional revenue from the new user group, eg. extending a drainage or road network, the provision of an oval or park in a new suburb for new residents.

### **Capital expenditure**

Relatively large (material) expenditure, which has benefits, expected to last for more than 12 months. Capital expenditure includes renewal, expansion and upgrade. Where capital projects involve a combination of renewal, expansion and/or upgrade expenditures, the total project cost needs to be allocated accordingly.

### **Capital funding**

Funding to pay for capital expenditure.

### **Capital grants**

Monies received generally tied to the specific projects for which they are granted, which are often upgrade and/or expansion or new investment proposals.

### **Capital investment expenditure**

See capital expenditure definition

### **Capital new expenditure**

Expenditure which creates a new asset providing a new service to the community that did not exist beforehand. As it increases service potential it may impact revenue and will increase future operating and maintenance expenditure.

### **Capital renewal expenditure**

Expenditure on an existing asset, which returns the service potential or the life of the asset up to that which it had originally. It is periodically required expenditure, relatively large (material) in value compared with the value of the components or sub-components of the asset being renewed. As it reinstates existing service potential, it has no impact on revenue, but may reduce future operating and maintenance expenditure if completed at the optimum time, eg. resurfacing or resheeting a material part of a road network, replacing a material section of a drainage network with pipes of the same capacity, resurfacing an oval. Where capital projects involve a combination of renewal, expansion and/or upgrade expenditures, the total project cost needs to be allocated accordingly.

### **Capital upgrade expenditure**

Expenditure, which enhances an existing asset to provide a higher level of service or expenditure that will increase the life of the asset beyond that which it had originally. Upgrade expenditure is discretionary and often does not result in additional revenue unless direct user charges apply. It will increase operating and maintenance expenditure in the future because of the increase in the council's asset base, eg. widening the sealed area of an existing road, replacing drainage pipes with pipes of a greater capacity, enlarging a grandstand at a sporting facility. Where capital projects involve a combination of renewal, expansion and/or upgrade

expenditures, the total project cost needs to be allocated accordingly.

#### **Carrying amount**

The amount at which an asset is recognised after deducting any accumulated depreciation / amortisation and accumulated impairment losses thereon.

#### **Class of assets**

See asset class definition

#### **Component**

An individual part of an asset which contributes to the composition of the whole and can be separated from or attached to an asset or a system.

#### **Cost of an asset**

The amount of cash or cash equivalents paid or the fair value of the consideration given to acquire an asset at the time of its acquisition or construction, plus any costs necessary to place the asset into service. This includes one-off design and project management costs.

#### **Current replacement cost (CRC)**

The cost the entity would incur to acquire the asset on the reporting date. The cost is measured by reference to the lowest cost at which the gross future economic benefits could be obtained in the normal course of business or the minimum it would cost, to replace the existing asset with a technologically modern equivalent new asset (not a second hand one) with the same economic benefits (gross service potential) allowing for any differences in the quantity and quality of output and in operating costs.

#### **Current replacement cost "As New" (CRC)**

The current cost of replacing the original service potential of an existing asset, with a similar modern equivalent asset, i.e. the total cost of replacing an existing asset with an as NEW or similar asset expressed in current dollar values.

#### **Cyclic Maintenance\*\***

Replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including repainting, building roof replacement, cycle, replacement of air conditioning equipment, etc. This work generally falls below the capital/ maintenance threshold and needs to be identified in a specific maintenance budget allocation.

#### **Depreciable amount**

The cost of an asset, or other amount substituted for its cost, less its residual value (AASB 116.6)

#### **Depreciated replacement cost (DRC)**

The current replacement cost (CRC) of an asset less, where applicable, accumulated depreciation calculated on the basis of such cost to reflect the already consumed or expired future economic benefits of the asset

#### **Depreciation / amortisation**

The systematic allocation of the depreciable amount (service potential) of an asset over its useful life.

#### **Economic life**

See useful life definition.

#### **Expenditure**

The spending of money on goods and services. Expenditure includes recurrent and capital.

#### **Fair value**

The amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties, in an arms length transaction.

#### **Greenfield asset values \*\***

Asset (re)valuation values based on the cost to initially acquire the asset.

#### **Heritage asset**

An asset with historic, artistic, scientific, technological, geographical or environmental qualities that is held and maintained principally for its contribution to knowledge and culture and this purpose is central to the objectives of the entity holding it.

#### **Impairment Loss**

The amount by which the carrying amount of an asset exceeds its recoverable amount.

#### **Infrastructure assets**

Physical assets of the entity or of another entity that contribute to meeting the public's need for access to major economic and social facilities and services, eg. roads, drainage, footpaths and cycleways. These are typically large, interconnected networks or portfolios of composite assets. The components of these assets may be separately maintained, renewed or replaced individually so that the required level and standard of service from the network of assets is continuously sustained. Generally the components and hence the assets have long lives. They are fixed in place and are often have no market value.

#### **Investment property**

Property held to earn rentals or for capital appreciation or both, rather than for:

- (a) use in the production or supply of goods or services or for administrative purposes; or
- (b) sale in the ordinary course of business (AASB 140.5)

#### **Level of service**

The defined service quality for a particular service against which service performance may be measured. Service levels usually relate to quality, quantity, reliability, responsiveness, environmental, acceptability and cost).

### **Life Cycle Cost \*\***

The life cycle cost (LCC) is average cost to provide the service over the longest asset life cycle. It comprises annual maintenance and asset consumption expense, represented by depreciation expense. The Life Cycle Cost does not indicate the funds required to provide the service in a particular year.

### **Life Cycle Expenditure \*\***

The Life Cycle Expenditure (LCE) is the actual or planned annual maintenance and capital renewal expenditure incurred in providing the service in a particular year. Life Cycle Expenditure may be compared to Life Cycle Expenditure to give an initial indicator of life cycle sustainability.

### **Loans / borrowings**

Loans result in funds being received which are then repaid over a period of time with interest (an additional cost). Their primary benefit is in 'spreading the burden' of capital expenditure over time. Although loans enable works to be completed sooner, they are only ultimately cost effective where the capital works funded (generally renewals) result in operating and maintenance cost savings, which are greater than the cost of the loan (interest and charges).

### **Maintenance and renewal gap**

Difference between estimated budgets and projected expenditures for maintenance and renewal of assets, totalled over a defined time (eg 5, 10 and 15 years).

### **Maintenance and renewal sustainability index**

Ratio of estimated budget to projected expenditure for maintenance and renewal of assets over a defined time (eg 5, 10 and 15 years).

### **Maintenance expenditure**

Recurrent expenditure, which is periodically or regularly required as part of the anticipated schedule of works required to ensure that the asset achieves its useful life and provides the required level of service. It is expenditure, which was anticipated in determining the asset's useful life.

### **Materiality**

An item is material if its omission or misstatement could influence the economic decisions of users taken on the basis of the financial report. Materiality depends on the size and nature of the omission or misstatement judged in the surrounding circumstances.

### **Modern equivalent asset.**

A structure similar to an existing structure and having the equivalent productive capacity, which could be built using modern materials, techniques and design. Replacement cost is the basis used to estimate the cost of constructing a modern equivalent asset.

### **Non-revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are not expected to generate any savings or revenue to the Council, eg. parks and playgrounds, footpaths, roads and bridges, libraries, etc.

### **Operating expenditure**

Recurrent expenditure, which is continuously required excluding maintenance and depreciation, eg power, fuel, staff, plant equipment, on-costs and overheads.

### **Pavement management system**

A systematic process for measuring and predicting the condition of road pavements and wearing surfaces over time and recommending corrective actions.

### **Planned Maintenance\*\***

Repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown criteria/experience, prioritising scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

### **PMS Score**

A measure of condition of a road segment determined from a Pavement Management System.

### **Rate of annual asset consumption\***

A measure of average annual consumption of assets (AAAC) expressed as a percentage of the depreciable amount (AAAC/DA). Depreciation may be used for AAAC.

### **Rate of annual asset renewal\***

A measure of the rate at which assets are being renewed per annum expressed as a percentage of depreciable amount (capital renewal expenditure/DA).

### **Rate of annual asset upgrade\***

A measure of the rate at which assets are being upgraded and expanded per annum expressed as a percentage of depreciable amount (capital upgrade/expansion expenditure/DA).

### **Reactive maintenance**

Unplanned repair work that carried out in response to service requests and management/supervisory directions.

### **Recoverable amount**

The higher of an asset's fair value, less costs to sell and its value in use.

**Recurrent expenditure**

Relatively small (immaterial) expenditure or that which has benefits expected to last less than 12 months. Recurrent expenditure includes operating and maintenance expenditure.

**Recurrent funding**

Funding to pay for recurrent expenditure.

**Rehabilitation**

See capital renewal expenditure definition above.

**Remaining life**

The time remaining until an asset ceases to provide the required service level or economic usefulness. Age plus remaining life is economic life.

**Renewal**

See capital renewal expenditure definition above.

**Residual value**

The net amount which an entity expects to obtain for an asset at the end of its useful life after deducting the expected costs of disposal.

**Revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are expected to generate some savings or revenue to offset operating costs, eg public halls and theatres, childcare centres, sporting and recreation facilities, tourist information centres, etc.

**Risk management**

The application of a formal process to the range of possible values relating to key factors associated with a risk in order to determine the resultant ranges of outcomes and their probability of occurrence.

**Section or segment**

A self-contained part or piece of an infrastructure asset.

**Service potential**

The capacity to provide goods and services in accordance with the entity's objectives, whether those objectives are the generation of net cash inflows or the provision of goods and services of a particular volume and quantity to the beneficiaries thereof.

**Service potential remaining\***

A measure of the remaining life of assets expressed as a percentage of economic life. It is also a measure of the percentage of the asset's potential to provide services that is still available for use in providing services (DRC/DA).

**Strategic Management Plan (SA)\*\***

Documents Council objectives for a specified period (3-5 yrs), the principle activities to achieve the objectives, the means by which that will be carried out, estimated income and expenditure, measures to assess performance and how rating policy relates to the Council's objectives and activities.

**Sub-component**

Smaller individual parts that make up a component part.

**Useful life**

Either:

- (a) the period over which an asset is expected to be available for use by an entity, or
- (b) the number of production or similar units expected to be obtained from the asset by the entity.

It is estimated or expected time between placing the asset into service and removing it from service, or the estimated period of time over which the future economic benefits embodied in a depreciable asset, are expected to be consumed by the council. It is the same as the economic life.

**Value in Use**

The present value of estimated future cash flows expected to arise from the continuing use of an asset and from its disposal at the end of its useful life. It is deemed to be depreciated replacement cost (DRC) for those assets whose future economic benefits are not primarily dependent on the asset's ability to generate new cash flows, where if deprived of the asset its future economic benefits would be replaced.

Source: DVC 2006, Glossary

Note: Items shown \* modified to use DA instead of CRC  
Additional glossary items shown \*\*



## 1. EXECUTIVE SUMMARY

### What Council Provides

Council provides a road network in partnership with Roads and Traffic Authority (RTA) to provide safe, smooth roads free from hazards

	Rural (m)	Urban (m)	Total (m)
Local Sealed	215,450	78,262	293,712
Local Unsealed	765,610	94,610	860,220
Regional Sealed	194,933	0	194,933
Regional Unsealed	4,830	0	4,830
State	71,200	0	71,200
Total (m)	1,252,023	172,872	1,424,895

### What does it Cost?

There are two key indicators of cost to provide the road service.

- The life cycle cost being the average cost over the life cycle of the asset, and
- The total maintenance and capital renewal expenditure required to deliver existing service levels in the next 10 years covered by Council's long term financial plan.

The life cycle cost to provide the road service is estimated at \$7,108,313 per annum. Council's planned life cycle expenditure for year 1 of the asset management plan is \$6,867,000 which gives a life cycle sustainability index of 0.50.

The total maintenance and capital renewal expenditure required to provide the sealed road service the in the next 10 years is estimated at \$38,089,000. This is an average of \$3,808,900 per annum.

Council's maintenance and capital renewal expenditure for year 1 of the asset management plan of \$3,292,000 giving a 10 year sustainability index of 0.86.

### Plans for the Future

Council plans to operate and maintain the sealed road network to achieve the following strategic objectives.

1. Ensure the road network is maintained at a safe and functional standard as set out in this asset management plan.

### Measuring our Performance

#### Quality

Road assets will be maintained in a reasonably usable condition. Defects found or reported that are outside our service standard will be repaired. See our maintenance response service levels for details of defect prioritisation and response time.

#### Function

Our intent is that an appropriate road network is maintained in partnership with other levels of government and stakeholders to provide safe, smooth roads free from hazards.

Road asset attributes will be maintained at a safe level and associated signage and equipment be provided as needed to ensure public safety. We need to ensure key functional objectives are met:

- To develop& maintain effective road, transport and infrastructure networks
- To exercise and expect honesty in business dealings

#### Safety

We inspect all roads regularly and prioritise and repair defects in accordance with our inspection schedule to ensure they are safe.

### The Next Steps

This actions resulting from this asset management plan are:

- Analyse available performance data
- Document detailed condition rating of road assets
- Document risk analysis
- Compile a more detailed 5 year renewals plan
- Employ an Administration Officer to improve data capture and analysis efficiencies.

## 2. INTRODUCTION

### 2.1 Background

This asset management plan is to demonstrate responsive management of assets (and services provided from assets), compliance with regulatory requirements, and to communicate funding required to provide the required levels of service.

The asset management plan is to be read with the following associated planning documents:

Liverpool Plains Shire Management Plan 2009/2010

Liverpool Plains Shire Strategic Plan 2009/2010-2019/2020

Liverpool Plains Shire LEP and DCP's

This asset management plan covers the following infrastructure assets:

Local Sealed Roads Urban
Local Unsealed Roads Urban
Local Sealed Roads Rural
Local Unsealed Roads Rural

#### ***Table***

#### ***2.1. Assets covered by this Plan***

Asset category	Dimension (m)	Replacement Value (\$)
Local Sealed Roads Urban	78,262	40,801,342
Local Unsealed Roads Urban	94,610	23,785,731
Local Sealed Roads Rural	215,450	90,582,063
Local Unsealed Roads Rural	765,610	198,160,837
Regional Roads Sealed	190,123	88,681,139
Regional Roads unsealed	4,830	1,688,085
<b>TOTAL</b>		<b>\$445,563,520</b>

Key stakeholders in the preparation and implementation of this asset management plan are:

General Manager

Director of Works

Manager Works and Assets

Works Engineer

## 2.2 Goals and Objectives of Asset Management

The Council exists to provide services to its community. Some of these services are provided by infrastructure assets. Council has acquired infrastructure assets by 'purchase', by contract, construction by council staff and by donation of assets constructed by developers and others to meet increased levels of service.

Council's goal in managing infrastructure assets is to meet the required level of service in the most cost effective manner for present and future consumers. The key elements of infrastructure asset management are:

- Taking a life cycle approach,
- Developing cost-effective management strategies for the long term,
- Providing a defined level of service and monitoring performance,
- Understanding and meeting the demands of growth through demand management and infrastructure investment,
- Managing risks associated with asset failures,
- Sustainable use of physical resources,
- Continuous improvement in asset management practices.<sup>1</sup>

This asset management plan is prepared under the direction of Council's vision, mission, goals and objectives.

Council's vision is:

**That Liverpool Plains Shire area achieves higher levels of growth and generates improved quality of life through expanded opportunities for economical and social development being realised within an environmentally friendly and financially sustainable framework.**

Council's mission is:

**To achieve the Liverpool Plains Shire Council vision through a proactive community focus delivering best value and practice services that are recognised by the community and our peers for their quality and positive impact on development.**

Relevant Council goals and objectives and how these are addressed in this asset management plan are:

***Table 2.2. Council Goals and how these are addressed in this Plan***

Focus Areas	Objective
Environment	To protect and enhance environmental values and provide for sustainable growth and development
Social	To facilitate access to a range of Services and facilities, recognising the importance of social well being and ensuring a safe, inclusive and equitable community
Economic	To facilitate economic growth through the provision of quality services, strategies and infrastructure for the betterment of the community
Governance	To provide leadership and effective decision making, sound financial and resource management, To undertake the role of advocacy and promote communication and consultation, To provide a safe working environment and value teamwork in all that we do

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<sup>1</sup> IIMM 2006 Sec 1.1.3, p 1.3

## 2.3 Plan Framework

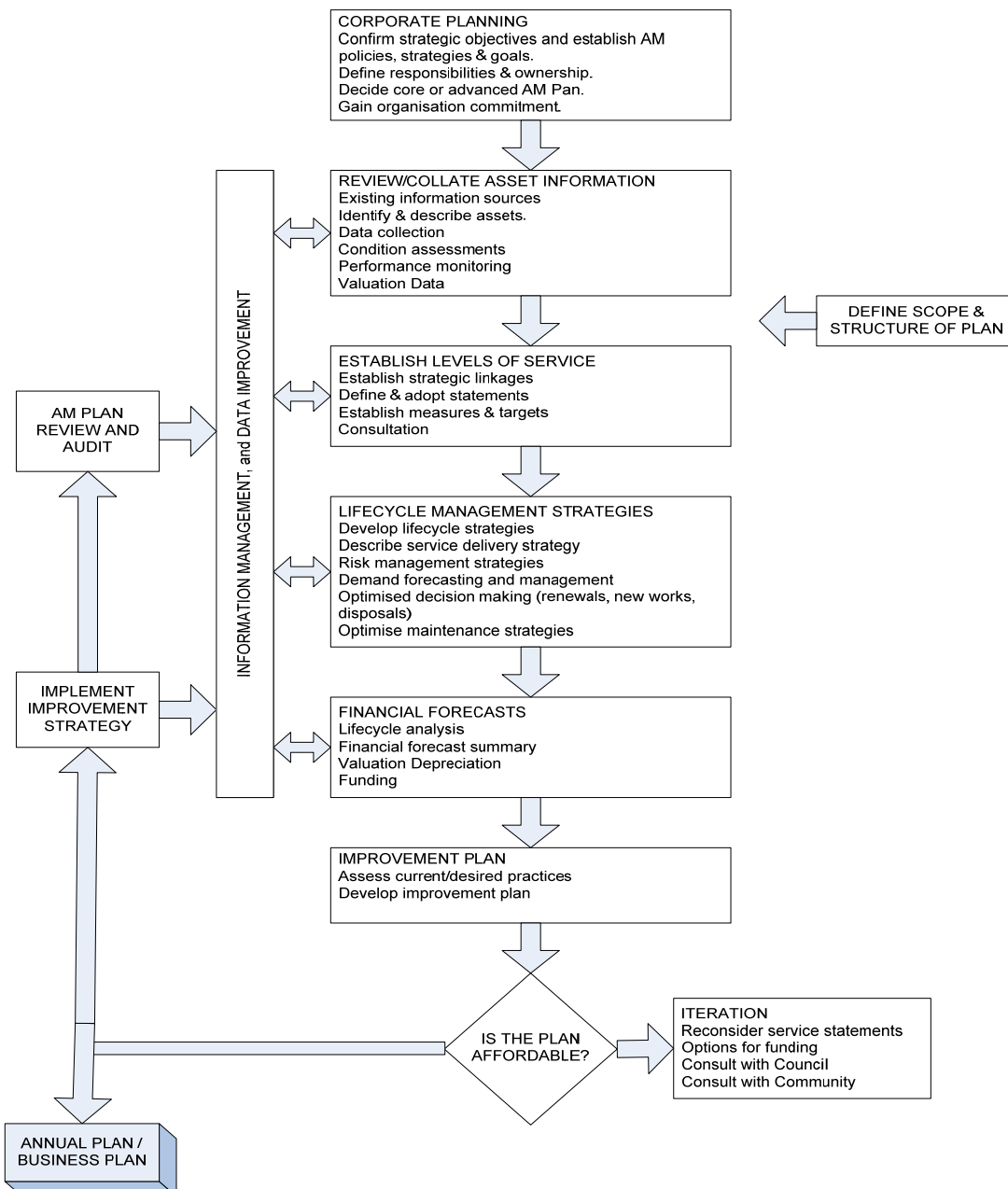
Key elements of the plan are

- Levels of service – specifies the services and levels of service to be provided by council.
- Future demand – how this will impact on future service delivery and how this is to be met.
- Life cycle management – how Council will manage its existing and future assets to provide the required services
- Financial summary – what funds are required to provide the required services.
- Asset management practices
- Monitoring – how the plan will be monitored to ensure it is meeting Council's objectives.
- Asset management improvement plan

A road map for preparing an asset management plan is shown below.

### ***Road Map for preparing an Asset Management Plan***

Source: IIMM Fig 1.5.1, p 1.11



## 2.4 Core and Advanced Asset Management

This asset management plan is prepared as a 'core' asset management plan in accordance with the International Infrastructure Management Manual. It is prepared to meet minimum legislative and organisational requirements for sustainable service delivery and long term financial planning and reporting. Core asset management is a 'top down' approach where analysis is applied at the 'system' or 'network' level.

Future revisions of this asset management plan will move towards 'advanced' asset management using a 'bottom up' approach for gathering asset information for individual assets to support the optimisation of activities and programs to meet agreed service levels.

## 3. LEVELS OF SERVICE

### 3.1 Customer Research and Expectations

Council participates in the 2009 Comparative Performance Measures in Local Government Customer Satisfaction survey. This telephone survey polls a sample of residents on their level of satisfaction with Council's services. The most recent customer satisfaction survey reported satisfaction levels for the following services

**Table 3.1. Community Satisfaction Survey Levels**

Performance Measure	Satisfaction Level				
	Very Satisfied	Fairly Satisfied	Satisfied	Somewhat satisfied	Not satisfied
5.2.5. Community satisfaction with asset management			√		

Council uses this information in developing the Strategic Management Plan and in allocation of resources in the budget.

### 3.2 Legislative Requirements

Council has to meet many legislative requirements including Australian and State legislation and State regulations. These include:

**Table 3.2. Legislative Requirements**

Legislation	Requirement
Local Government Act 1993	Sets out role, purpose, responsibilities and powers of local governments including the preparation of a long term financial plan supported by asset management plans for sustainable service delivery.
Roads Act 1993	
Occupational Health, Safety and Welfare Act & Regulations	Sets out roles and responsibilities to secure the health, safety and welfare of persons at work

### 3.3 Current Levels of Service

Council has defined service levels in two terms.

Community Levels of Service relate to how the community receives the service in terms of safety, quality, quantity, reliability, responsiveness, cost/efficiency and legislative compliance.

Supporting the community service levels are operational or technical measures of performance developed to ensure that the minimum community levels of service are met. These technical measures relate to service criteria such as:

Service Criteria	Technical measures may relate to
Quality	Smoothness of roads
Quantity	Area of parks per resident
Availability	Distance from a dwelling to a sealed road
Safety	Number of injury accidents

Council's current service levels are detailed in Table 3.3.

**Table 3.3. Current Service Levels**

Key Performance Measure	Level of Service	Performance Measure Process	Performance Target	Current Performance
<b>COMMUNITY LEVELS OF SERVICE</b>				
Quality	Provide a smooth ride	Annual customer satisfaction survey	70% of customers (citizens) reporting 'satisfied' or higher satisfaction levels for ride quality	65% (2005)
		Customer Service Requests	Less than 10 per month	12 per month (2005 average)
Function	Ensure that road meets user requirements for travel time and availability	Customer satisfaction surveys	90% of customers (citizens) reporting 'satisfied' or higher satisfaction levels for travel time and availability	85% (2005)
		Customer service requests relating to travel time and availability	Less than 2 per month	5 per month (2005 average)
Safety	Provide safe suitable roads, free from hazards	Number of injury accidents	Less than 20 per annum	25 (2005)
		Number of fatalities	Zero	2 (2005)
<b>TECHNICAL LEVELS OF SERVICE</b>				
Condition	Provides a smooth ride	Road condition surveys (3 yearly)	Arterial roads mean PCI 8.5, <5% with PCI <7.0 Local roads mean PCI 8.0, <5% with PCI <6.0	Arterial Roads- mean PCI 7.8, 10% with PCI <7.0 Local roads- mean PCI 7.2, 12% with PCI <6.0 (2005)
	Provide a smooth ride	Average age of sealed surfaces	Arterial roads mean age 10 yrs (AC), 6 yrs (flush seal) Local roads mean age 12 yrs (AC), 9 yrs (flush seal)	Arterial Roads- 12 yrs (AC), 10 yrs (Flush Seal) Local Roads- 16 years (Flush Seal) (2005)
	Provide a smooth ride	Annual survey of potholes	Arterial roads max. 10 potholes/km Local roads max 30 potholes/km	Arterial Roads- 20 Local Roads- 20 (2005)
	Provide a smooth ride	Customer service request	Less than 10 per month	12 per month (2005 average)
Travel Time	Provide a smooth flow of	Records of lane	Lane closures in peak flow	2.5 per month (2005)

	traffic in peak flow periods (7-9am, 4.6pm)	closures	periods <1 per month	average)
	Provide a smooth flow of traffic in peak flow periods (7-9am, 4.6pm)	Survey of traffic volumes per lane	Arterial roads max 2000 vph/per lane	Zero>2000 vph Main Street- 1800 vph pm (2005)
	Provide a smooth flow of traffic in peak flow periods (7-9am, 4.6pm)	Average travel speed on arterial roads in peak hour	30 km/h average travel speeds on arterial roads in am and pm peaks	25 km/h am 20 km/h pm (monthly average 2005)
Accessibility	Ensure that the road meets user requirements for availability	Record of lane closures	Less than one per year	3 per year (2005)
Hierarchy requirements	Ensure that the road meets agreed road hierarchy requirements	Percentage of length meeting hierarchy specifications for sealed width	Arterial roads >80% Local roads >60%	Arterial roads- 60% Local roads- 80% (2005)
Cost effectiveness	Provide services in a cost effective manner	Maintenance cost \$/km	Arterial roads> \$6000/km Local roads> \$5000/km	Arterial roads \$5000/km Local roads \$7800/km
Safety	Provide safe suitable roads, free from hazards	Insurance claim history	Less than 1 per month	1.2 per year (2005 average)
	Provide safe suitable roads, free from hazards	Survey of curves with adverse camber on roads with >60 km/h speed limit	Less than 5 sites	22 sites (2005)

### 3.4 Desired Levels of Service

At present, indications of desired levels of service are obtained from various sources including the 2010 Customer Satisfaction survey, residents' feedback to Councillors and staff, service requests and correspondence. Council has yet to quantify desired levels of service. This will be done in future revisions of this asset management plan.

## 4. FUTURE DEMAND

### 4.1 Demand Forecast

Factors affecting demand include population change, changes in demographics, seasonal factors, vehicle ownership, consumer preferences and expectations, economic factors, agricultural practices, environmental awareness, etc.

Demand factor trends and impacts on service delivery are summarised in Table 4.1.

**Table 4.1. Demand Factors, Projections and Impact on Services**

Demand factor	Present position	Projection	Impact on services
Population	7940 (2009)	10551 (2026)	Describe impact on services

### 4.2 Changes in Technology

Technology changes are forecast to affect the delivery of services covered by this plan in the following areas.

The overall implications of continual demand for improvements in levels of service, a static population and increasing numbers of heavy vehicles on the road network are:

An increased demand for higher structural capacities,

- An increased rate of deterioration of road pavements,
- An increasing focus on road user safety,
- The need for an increased level of expenditure on the assets to maintain the intended levels of service.

Demand forecasting aims to identify factors influencing the demand for an asset and the associated impact on the management and utilisation of the asset.

Travel, for people or goods moving either locally or regionally, dictates the demand for road infrastructure.

Factors including the following affect utilisation of the road network include:

- Growth in residential, industrial and commercial areas,
- Changes in land use,
- Population growth,
- Travel patterns,
- Adverse changes in traffic composition, and
- Key stakeholder expectations

Changes in traffic composition involve heavier vehicle loads or greater volumes of traffic than those anticipated in the original design and provision of roads. These factors in turn have an effect on planned renewal or upgrade of these assets.







Liverpool plains are the key Agricultural, commercial and service centre for the municipality and surrounding region with a population of approximately 7540.

Whilst forecasts indicate that population growth will be fairly static over the next 20 years, traffic counts consistently show continued growth in traffic volumes and use of roads by heavy vehicles.

High productivity vehicles, such as B-Doubles and vehicles at Higher Mass Limits are important to the efficiency of the freight task locally and regionally. The larger capacity of these vehicles reduces the number of vehicles required to transport a given amount of freight.

The extent of the potential benefit of these vehicles is related to the degree of access to the road network. Access to local roads within the Liverpool Plains Shire is allowed where these vehicles can operate safely with other traffic and where road infrastructure, including road pavements and bridges, is capable to carry legal load limits. The current legal loads were adopted in July 1999, and are detailed in Figure 3.0.



Vehicle Type	General Mass Limit (tonnes)	Higher Mass Limit (tonnes)
	15.0*	15.0*
	22.5*	23.0*
	39.0*	40.0**
	42.5*	45.5*
	55.5**	57.0**
	62.5**	68.0**

In line with these load ratings, a structural capacity assessment program has been established to determine the strength of those bridges on key transport links. It is proposed that this program be extended to other structures on the local road network on a priority basis.

Industry, in particular the timber and dairy sectors, are continually upgrading their transport fleets from semi-trailers operating at General Mass Limits to similar vehicles operating at Higher Mass Limits as a means to achieving operational efficiencies and reducing transport costs,. There is also increased demand for the use of 19-metre and 25-metre B-Double transports operating at Higher Mass Limits on the local road network. Heavy vehicle use of the road network infrastructure impacts very significantly on its performance and its ability to be maintained. Council works in conjunction with these industries to allow the use of heavier vehicles on the road network where bridge capacities allow and where the safety of other road users is not compromised.

The bearing capacity of Council's road bridges have been assessed via either one of two methods.

Theoretical strengths have been calculated in accordance with VicRoads Bridge

Assessment Group Guidelines for assessing the load Capacity of Bridges (i.e. a desktop study). Behavioral or dynamic load testing has also been utilised on some bridges to enable the structural performance to be further understood (i.e. in field testing).

### 4.3 Demand Management Plan

Demand for new services will be managed through a combination of managing existing assets, upgrading of existing assets and providing new assets to meet demand and demand management. Demand management practices include non-asset solutions, insuring against risks and managing failures.

Opportunities identified to date for demand management are shown in Table 4.3. Further opportunities will be developed in future revisions of this asset management plan.

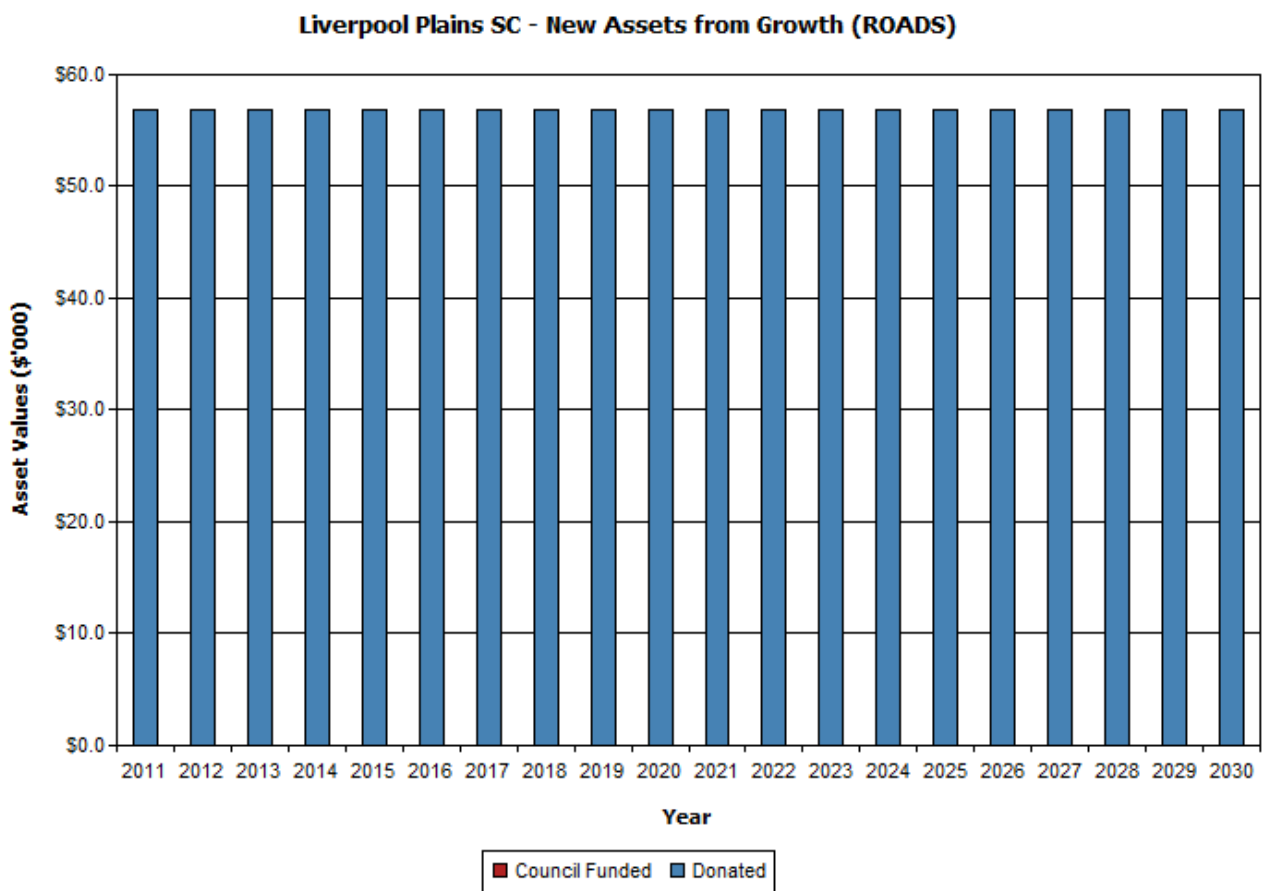
**Table 4.3. Demand Management Plan Summary**

Service Activity	Demand Management Plan
Transport	Load limits to be placed on bridges and roads in poor condition, where reasonable alternate access is available

#### 4.4 New Assets from Growth

The new assets required to meet growth will be acquired from land developments and constructed by Council. The new asset values are summarised in Fig 1.

**Fig 1. New Assets from Growth**



Acquiring these new assets will commit council to fund ongoing operations and maintenance costs for the period that the service provided from the assets is required. These future costs are identified and considered in developing forecasts of future operating and maintenance costs.

## 5. LIFECYCLE MANAGEMENT PLAN

The lifecycle management plan details how Council plans to manage and operate the assets at the agreed levels of service (defined in section 3) while optimising life cycle costs.

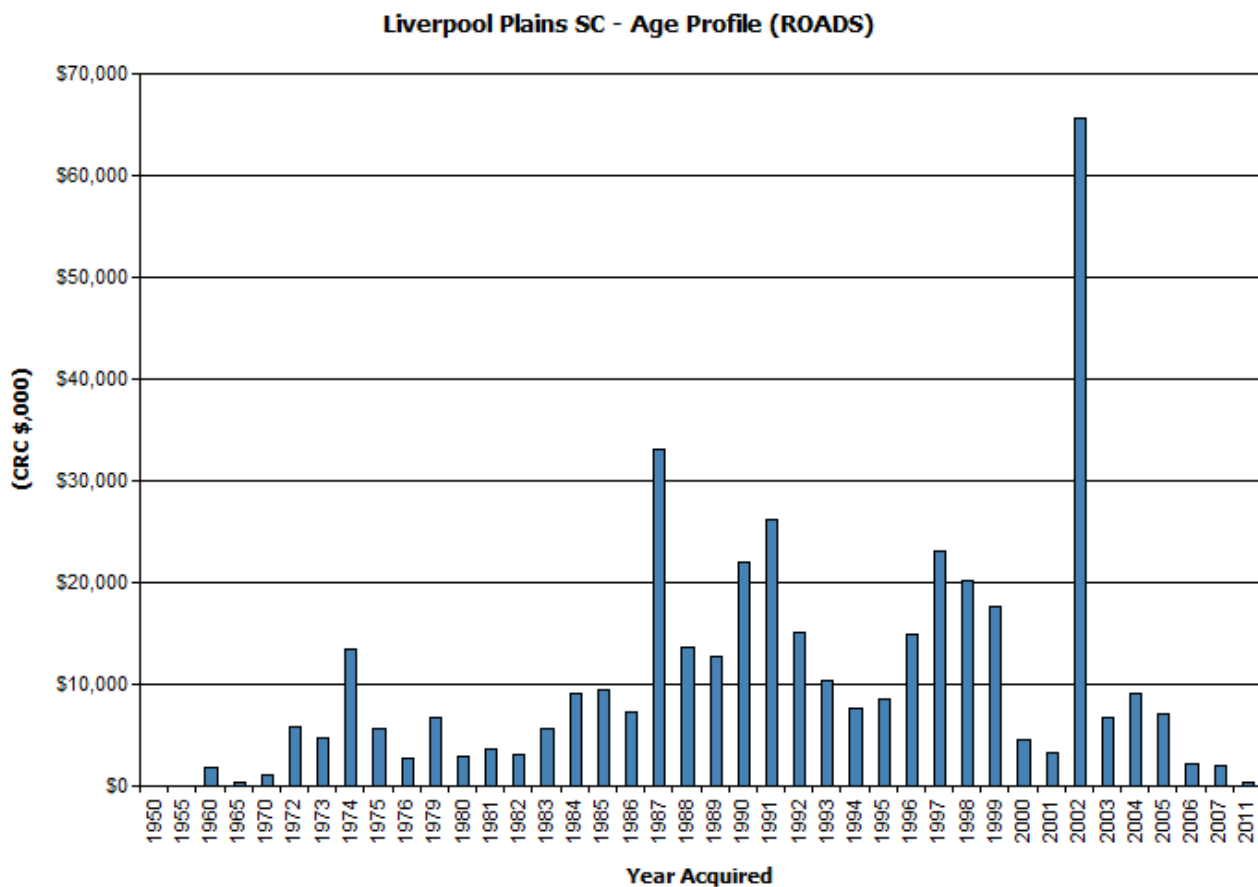
### 5.1 Background Data

#### 5.1.1 Physical parameters

The assets covered by this asset management plan are shown below.

ASSET TYPE	DIMENSION (M)
Local Sealed	215,450
Local Unsealed	765,610
Regional Sealed	190,123
Regional Unsealed	4,830

The age profile of Council's assets is shown below.



#### 5.1.2 Asset capacity and performance

Council's services are generally provided to meet design standards where these are available.

Locations where deficiencies in service performance are known are detailed in Table 5.1.2.

**Table 5.1.2. Known Service Performance Deficiencies**

Location	Service Deficiency
"[ Click here & type location ]"	"[ Click here & type performance deficiency ]"
"[ Click here & type location ]"	"[ Click here & type performance deficiency ]"
"[ Click here & type location ]"	"[ Click here & type performance deficiency ]"

### 5.1.3 Asset condition

The condition profile of Council's assets is shown below.

Condition is measured using a 1 – 5 rating system.<sup>2</sup>

Rating	Description of Condition
1	Excellent condition: Only planned maintenance required.
2	Very good: Minor maintenance required plus planned maintenance.
3	Good: Significant maintenance required.
4	Average: Significant renewal/upgrade required.
5	Poor: Unserviceable.

### 5.1.4 Asset valuations

The value of assets as at 10 Mar 2010 covered by this road asset management plan is summarised below. Assets were last revalued in 2012. Assets are valued at Greenfield.

Current Replacement Cost	\$409,836,568
Depreciable Amount	\$190,041,060
Depreciated Replacement Cost	\$369,863,526
Annual Depreciation Expense	\$4,816,313

Council's sustainability reporting reports the rate of annual asset consumption and compares this to asset renewal and asset upgrade and expansion.

Asset Consumption	2.5%
Asset renewal	0.52%
Annual Upgrade/expansion	0.26%

## 5.2 Risk Management Plan

An assessment of risks<sup>3</sup> associated with service delivery from infrastructure assets has identified critical risks to Council. The risk assessment process identifies credible risks, the likelihood of the risk event occurring,

<sup>2</sup> IIMM 2006, Appendix B, p B:1-3 ('cyclic' modified to 'planned')

the consequences should the event occur, develops a risk rating, evaluates the risk and develops a risk treatment plan for non-acceptable risks.

Critical risks, being those assessed as 'Very High' - requiring immediate corrective action and 'High' – requiring prioritised corrective action identified in the infrastructure risk management plan.

### 5.3 Routine Maintenance Plan

Routine maintenance is the regular on-going work that is necessary to keep assets operating, including instances where portions of the asset fail and need immediate repair to make the asset operational again.

#### 5.3.1 Maintenance plan

Maintenance includes reactive, planned and cyclic maintenance work activities.

Reactive maintenance is unplanned repair work carried out in response to service requests and management/supervisory directions.

Planned maintenance is repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown experience, prioritising, scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

Cyclic maintenance is replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including repainting, building roof replacement, etc. This work generally falls below the capital/maintenance threshold.

Maintenance expenditure trends are shown in Table 5.3.1

**Table 5.3.1. Maintenance Expenditure Trends**

Year	Maintenance Expenditure		
	Reactive	Planned	Cyclic
2008/09	\$833,452	\$740,847	\$277,817
2009/10	\$953,146	\$847,241	\$317,715
2010/11	\$1,061,977	\$943,980	\$353,992

Planned maintenance work is 55% of total maintenance expenditure.

Maintenance expenditure levels are considered to be inadequate to meet required service levels. Future revision of this asset management plan will include linking required maintenance expenditures with required service levels.

Assessment and prioritisation of reactive maintenance is undertaken by Council staff using experience and judgement.

#### 5.3.2 Standards and specifications

Maintenance work is carried out in accordance with the following Standards and Specifications.

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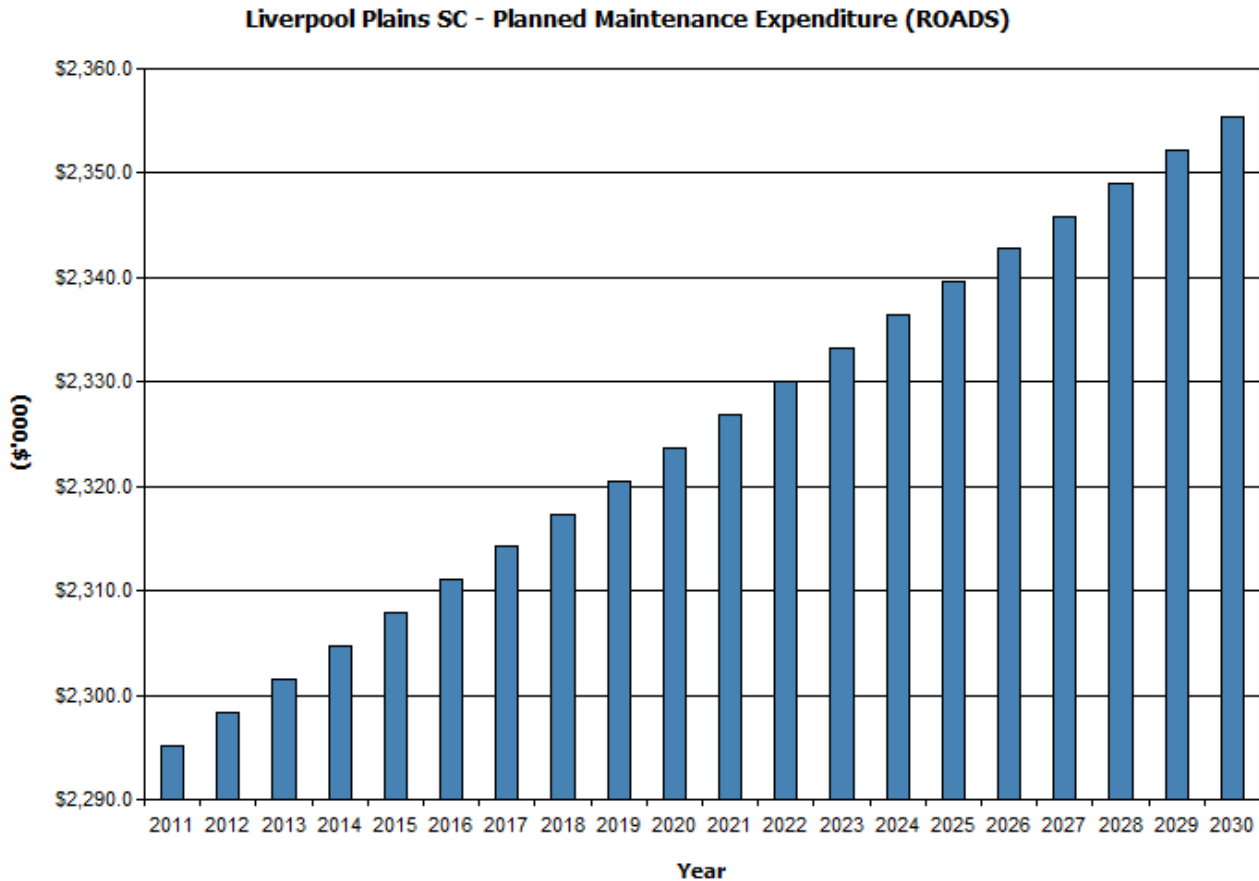
<sup>3</sup> Liverpool Plains Shire Infrastructure Risk Management Plan

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### 5.3.3 Summary of future maintenance expenditures

Future maintenance expenditure is forecast to trend in line with the value of the asset stock as shown in Fig 4. Note that all costs are shown in current 2010 dollar values.

**Fig 4. Planned Maintenance Expenditure**



Deferred maintenance, ie works that are identified for maintenance and unable to be funded are to be included in the risk assessment process in the infrastructure risk management plan.

Maintenance is funded from Council's operating budget and grants where available. This is further discussed in Section 6.2.

## 5.4 Renewal/Replacement Plan

Renewal expenditure is major work which does not increase the asset's design capacity but restores, rehabilitates, replaces or renews an existing asset to its original service potential. Work over and above restoring an asset to original service potential is upgrade/expansion or new works expenditure.

### 5.4.1 Renewal plan

Assets requiring renewal are identified from estimates of remaining life obtained from the asset register worksheets on the '*Planned Expenditure template*'. Candidate proposals are inspected to verify accuracy of

remaining life estimate and to develop a preliminary renewal estimate. Verified proposals are ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is detailed in Table 5.4.1.

**Table 5.4.1      Renewal Priority Ranking Criteria**

Criteria	Weighting
Rutting	50
Visual	30
Cracking	10
Roughness	10
Total	100%

Renewal will be undertaken using 'low-cost' renewal methods where practical. The aim of 'low-cost' renewals is to restore the service potential or future economic benefits of the asset by renewing the assets at a cost less than replacement cost.

#### 5.4.2    Renewal standards

Renewal work is carried out in accordance with the following Standards and Specifications.

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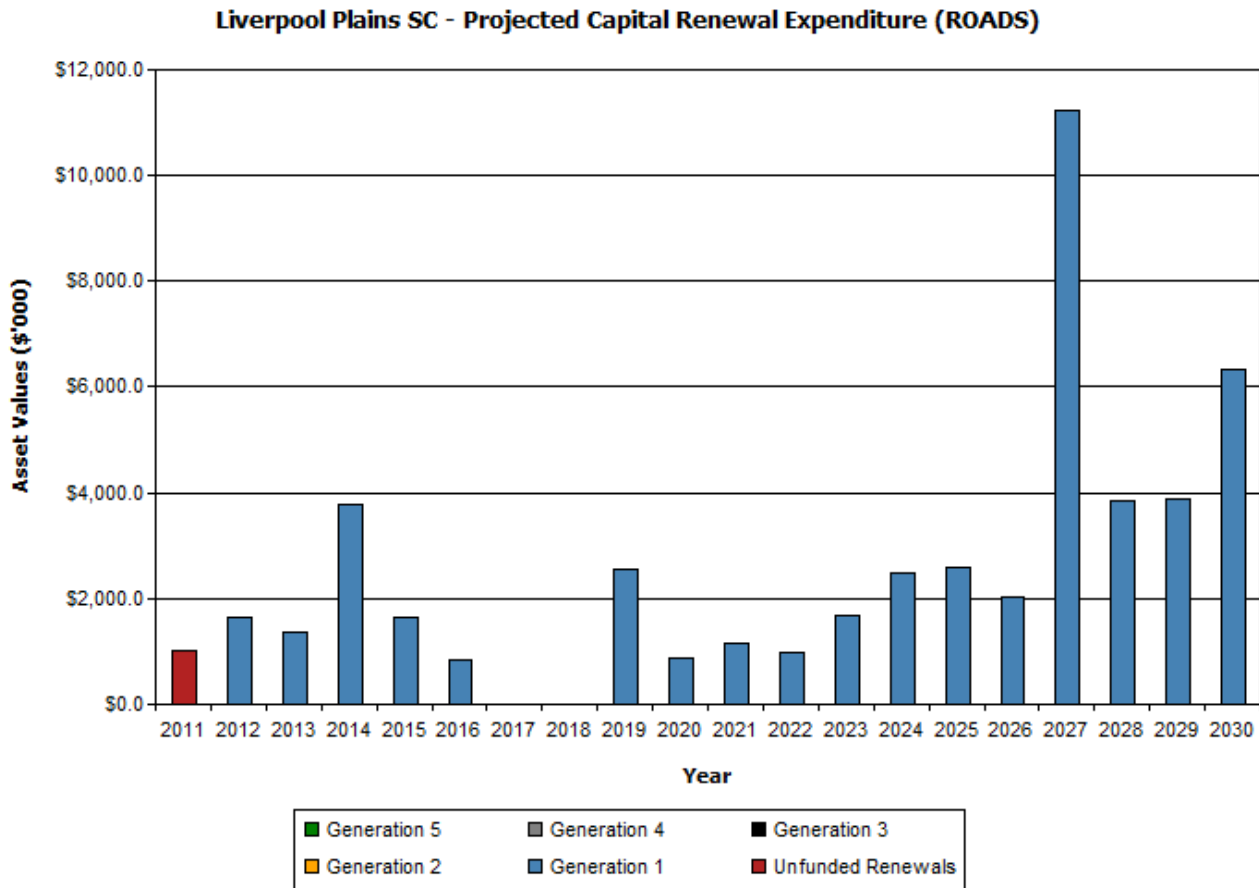
Liverpool Plains Shire Engineering Guidelines for Development and Subdivision Works

#### 5.4.3    Summary of future renewal expenditure

Projected future renewal expenditures are forecast to increase over time as the asset stock ages. The costs are summarised in Fig 5. Note that all costs are shown in current 2010 dollar values.

The projected capital renewal program is shown in Appendix B.

**Fig 5. Projected Capital Renewal Expenditure**



Deferred renewal, ie those assets identified for renewal and not scheduled for renewal in capital works programs are to be included in the risk assessment process in the risk management plan.

Renewals are to be funded from Council's capital works program and grants where available. This is further discussed in Section 6.2.

## 5.5 Creation/Acquisition/Upgrade Plan

New works are those works that create a new asset that did not previously exist, or works which upgrade or improve an existing asset beyond its existing capacity. They may result from growth, social or environmental needs. Assets may also be acquired at no cost to the Council from land development. These assets from growth are considered in Section 4.4.

### 5.5.1 Selection criteria

New assets and upgrade/expansion of existing assets are identified from various sources such as councillor or community requests, proposals identified by strategic plans or partnerships with other organisations. Candidate proposals are inspected to verify need and to develop a preliminary renewal estimate. Verified proposals are ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is detailed below.



**Table 5.5.1 New Assets Priority Ranking Criteria**

Criteria	Weighting
Rutting	50
Visual	30
Cracking	10
Roughness	10

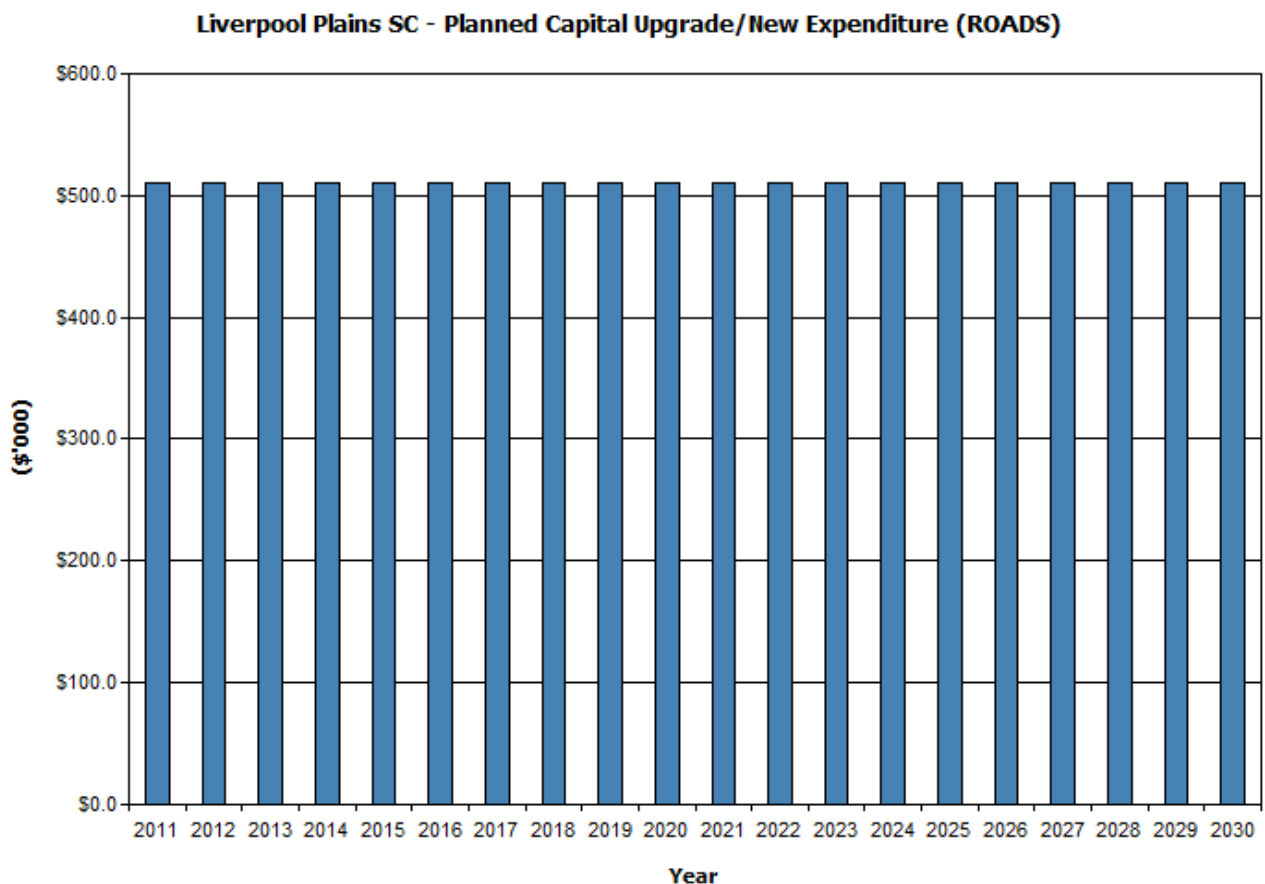
#### 5.5.2 Standards and specifications

Standards and specifications for new assets and for upgrade/expansion of existing assets are the same as those for renewal shown in Section 5.4.2.

#### 5.5.3 Summary of future upgrade/new assets expenditure

Planned upgrade/new asset expenditures are summarised in Fig 6. The planned upgrade/new capital works program is shown in Appendix C. All costs are shown in current 2010 dollar values.

**Fig 6. Planned Capital Upgrade/New Asset Expenditure**



New assets and services are to be funded from Council's capital works program and grants where available. This is further discussed in Section 6.2.

## 5.6 Disposal Plan

Disposal includes any activity associated with disposal of a decommissioned asset including sale, demolition or relocation. Assets identified for possible decommissioning and disposal are shown in Table 5.6. These assets will be further reinvestigated to determine the required levels of service and see what options are available for alternate service delivery, if any.

***Table 5.6 Assets identified for Disposal***

Asset	Reason for Disposal	Timing	Cashflow from disposal
nil			

Where cashflow projections from asset disposals are not available, these will be developed in future revisions of this asset management plan.

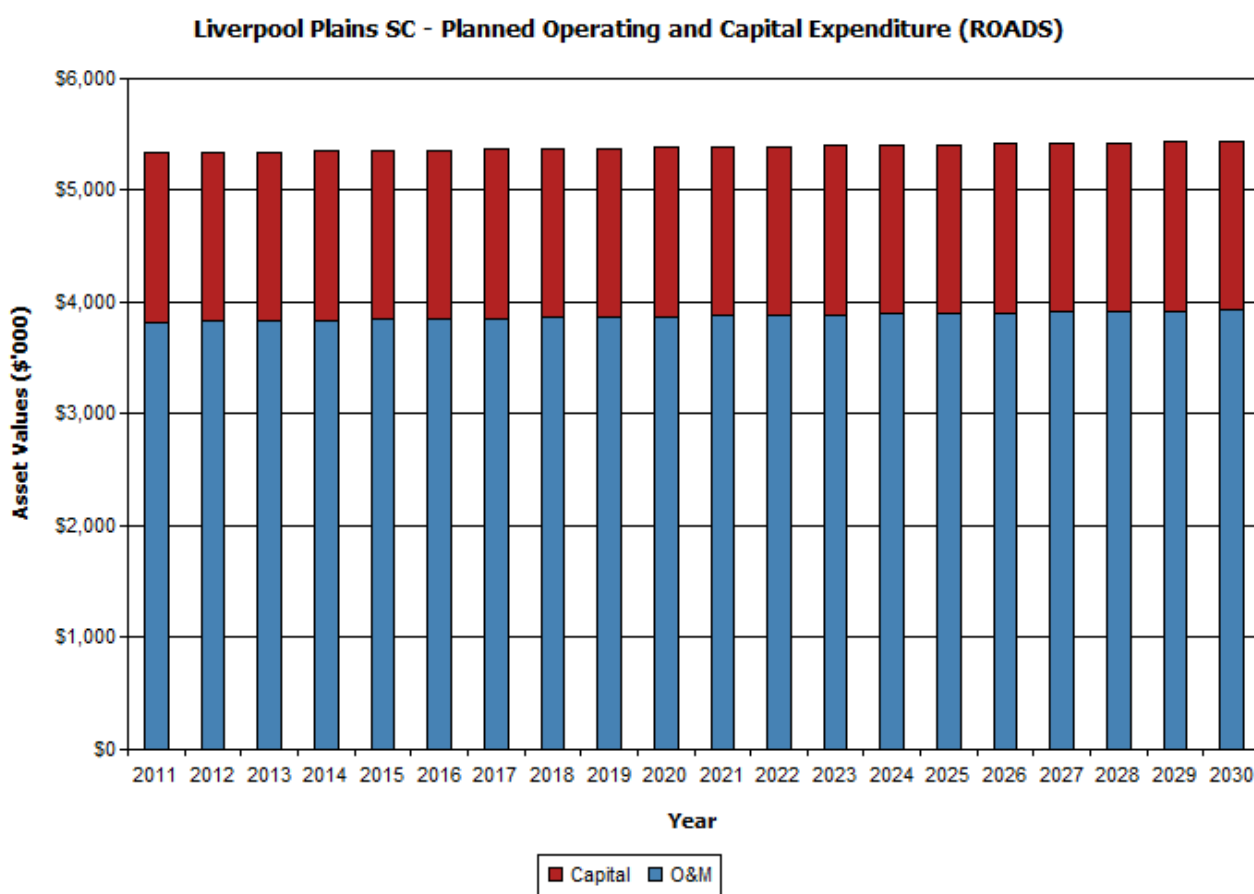
## 6. FINANCIAL SUMMARY

This section contains the financial requirements resulting from all the information presented in the previous sections of this asset management plan. The financial projections will be improved as further information becomes available on desired levels of service and current and projected future asset performance.

### 6.1 Financial Statements and Projections

The financial projections are shown in Fig 7 for planned operating (operations and maintenance) and capital expenditure (renewal and upgrade/expansion/new assets).

**Fig 7. Planned Operating and Capital Expenditure**



Note that all costs are shown in current 2010 dollar values.

#### 6.1.1 Sustainability of service delivery

There are two key indicators for financial sustainability that have been considered in the analysis of the services provided by this asset category, these being long term life cycle costs and medium term costs over the 10 year financial planning period.

##### Long term - Life Cycle Cost

Life cycle costs (or whole of life costs) are the average costs that are required to sustain the service levels over the longest asset life. Life cycle costs include maintenance and asset consumption (depreciation expense). The annual average life cycle cost for the services covered in this asset management plan is \$13,838,000.

Life cycle costs can be compared to life cycle expenditure to give an indicator of sustainability in service provision. Life cycle expenditure includes maintenance plus capital renewal expenditure. Life cycle expenditure will vary depending on the timing of asset renewals. The life cycle expenditure at the start of the plan is \$6,867,000.

A gap between life cycle costs and life cycle expenditure gives an indication as to whether present consumers are paying their share of the assets they are consuming each year. The purpose of this sealed roads asset management plan is to identify levels of service that the community needs and can afford and develop the necessary long term financial plans to provide the service in a sustainable manner.

The life cycle gap for services covered by this asset management plan is \$6,971,000 per annum. The life cycle sustainability index is 0.50

Medium term – 10 year financial planning period

This asset management plan identifies the estimated maintenance and capital expenditures required to provide an agreed level of service to the community over a 20 year period for input into a 10 year financial plan and funding plan to provide the service in a sustainable manner.

This may be compared to existing or planned expenditures in the 20 year period to identify any gap. In a core asset management plan, a gap is generally due to increasing asset renewals.

Fig 8 shows the projected asset renewals in the 20 year planning period from the asset register. The projected asset renewals are compared to planned renewal expenditure in the capital works program and capital renewal expenditure in year 1 of the planning period as shown in Fig 8. Table 6.1.1 shows the annual and cumulative funding gap between projected and planned renewals.

**Fig 8. Projected and Planned Renewals and Current Renewal Expenditure**

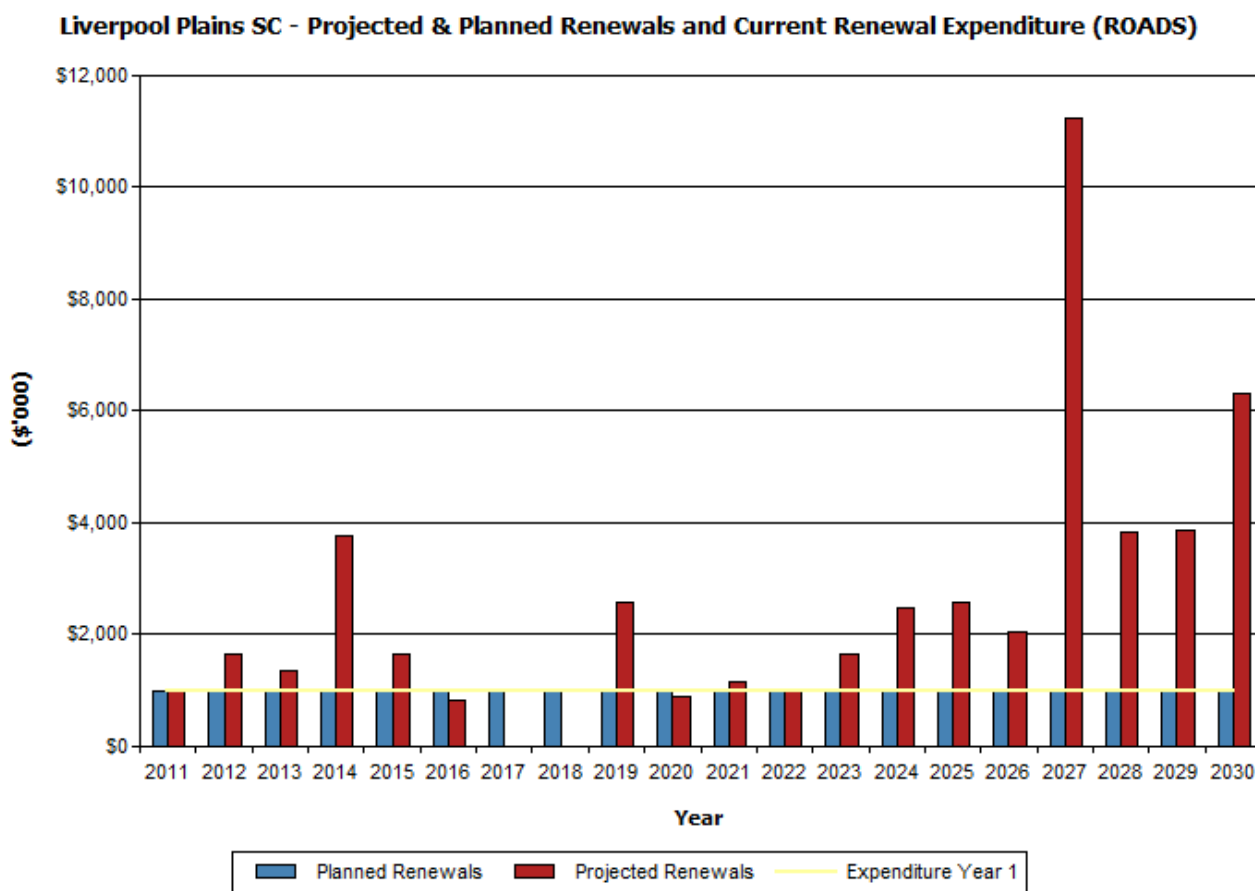


Table 6.1.1 shows the gap between projected and planned renewals.

**Table 6.1.1 Projected and Planned Renewals and Expenditure Gap (\$'000)**

Year	Projected Renewals	Planned Renewals	Renewal Funding Gap	Cumulative Gap
2011	\$1,022.19	\$1,000.00	\$22.19	\$22.19
2012	\$1,652.88	\$1,000.00	\$652.88	\$675.07
2013	\$1,370.16	\$1,000.00	\$370.16	\$1,045.23
2014	\$3,766.33	\$1,000.00	\$2,766.33	\$3,811.56
2015	\$1,654.90	\$1,000.00	\$654.90	\$4,466.46
2016	\$828.52	\$1,000.00	-\$171.48	\$4,294.98
2017	\$0.00	\$1,000.00	-\$1,000.00	\$3,294.98
2018	\$0.00	\$1,000.00	-\$1,000.00	\$2,294.98
2019	\$2,563.15	\$1,000.00	\$1,563.15	\$3,858.13
2020	\$883.58	\$1,000.00	-\$116.42	\$3,741.71
2021	\$1,147.05	\$1,000.00	\$147.05	\$3,888.76
2022	\$982.02	\$1,000.00	-\$17.98	\$3,870.78
2023	\$1,663.77	\$1,000.00	\$663.77	\$4,534.54
2024	\$2,468.84	\$1,000.00	\$1,468.84	\$6,003.38
2025	\$2,580.31	\$1,000.00	\$1,580.31	\$7,583.69
2026	\$2,039.36	\$1,000.00	\$1,039.36	\$8,623.04
2027	\$11,243.93	\$1,000.00	\$10,243.93	\$18,866.97
2028	\$3,844.13	\$1,000.00	\$2,844.13	\$21,711.10
2029	\$3,882.25	\$1,000.00	\$2,882.25	\$24,593.35
2030	\$6,319.77	\$1,000.00	\$5,319.77	\$29,913.12

Providing services in a sustainable manner will require matching of projected asset renewals to meet agreed service levels with planned capital works programs and available revenue.

A gap between projected asset renewals, planned asset renewals and funding indicates that further work is required to manage required service levels and funding to eliminate any funding gap.

Council will manage the 'gap' by developing this asset management plan to provide guidance on future service levels and resources required to provide these services..

Council's long term financial plan covers the first 10 years of the 20 year planning period. The total maintenance and capital renewal expenditure required over the 10 years is \$38,088,000.

This is an average expenditure of \$3,808,800. Estimated maintenance and capital renewal expenditure in year 1 is \$3,292,000. The 10 year sustainability index is 0.86

## 6.2 Funding Strategy

Projected expenditure identified in Section 6.1 is to be funded from Council's operating and capital budgets. The funding strategy is detailed in the Council's 10 year long term financial plan.

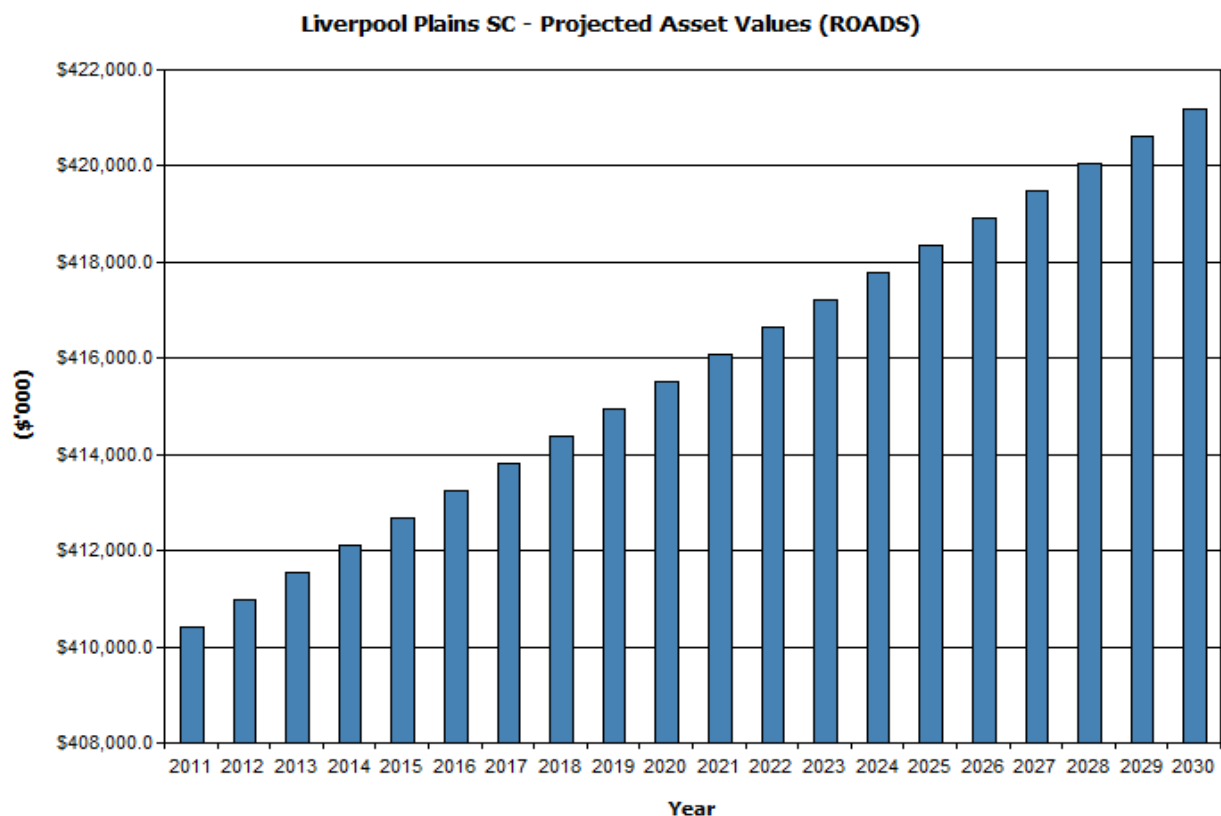
Achieving the financial strategy will require that we look at other options these may include

- Use of loans to fund renewal spikes
- Cost reductions from review of service levels
- Increasing revenue from rates and user charges
- Grants where applicable from state and federal governments or private companies

## 6.3 Valuation Forecasts

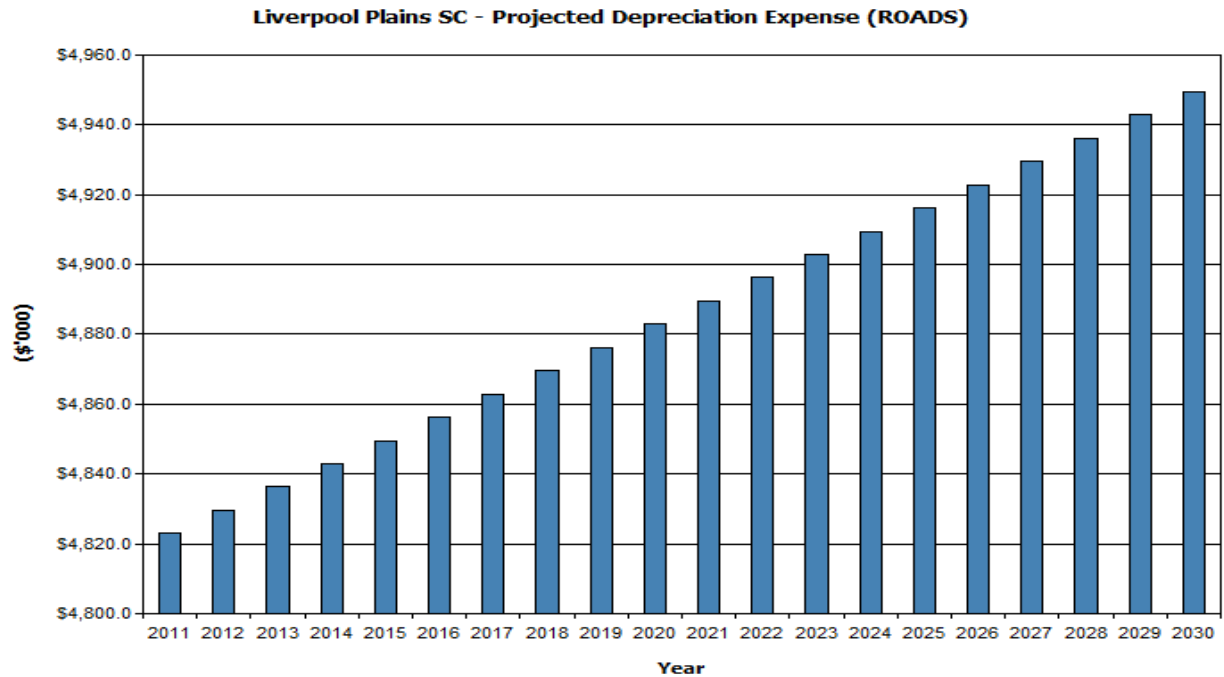
Asset values are forecast to increase as additional assets are added to the asset stock from construction and acquisition by Council and from assets constructed by land developers and others and donated to Council. Fig 9 shows the projected replacement cost asset values over the planning period in current 2010 dollar values.

**Fig 9. Projected Asset Values**



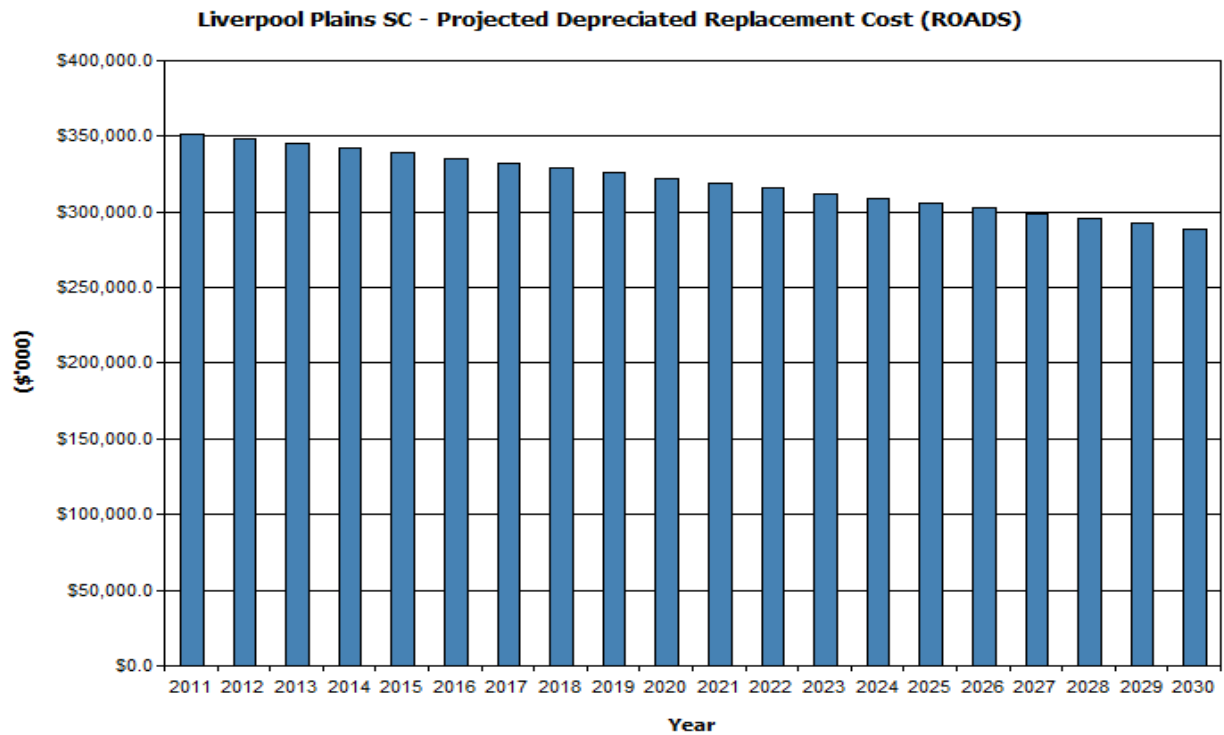
Depreciation expense values are forecast in line with asset values as shown in Fig 10.

**Fig 10. Projected Depreciation Expense**



The depreciated replacement cost (current replacement cost less accumulated depreciation) will vary over the forecast period depending on the rates of addition of new assets, disposal of old assets and consumption and renewal of existing assets. Forecast of the assets' depreciated replacement cost is shown in Fig 11.

**Fig 11. Projected Depreciated Replacement Cost**



## 6.4 Key Assumptions made in Financial Forecasts

This section details the key assumptions made in presenting the information contained in this asset management plan and in preparing forecasts of required operating and capital expenditure and asset values, depreciation expense and carrying amount estimates. It is presented to enable readers to gain an understanding of the levels of confidence in the data behind the financial forecasts.

Key assumptions made in this sealed roads asset management plan are:

- Capital Works expenditure is indexed by 3.5% pa,
- Wages and Contributions to Council are indexed at 3% pa,
- Zero Dividend return to Council, and
- Energy and other utility costs are indexed by 3.5% pa

Accuracy of future financial forecasts may be improved in future revisions of this sealed roads asset management plan by the following actions.

- Refining the required renewal expenditure based upon improved data within the asset register,
- Provision of modelling and reporting capabilities within the asset register,
- Trending actual planned and reactive maintenance expenditure, and
- Investigate asset renewal profile and depreciation calculations.



## **7. ASSET MANAGEMENT PRACTICES**

### **7.1 Accounting/Financial Systems**

As well as complying with Australian Accounting Standards, Liverpool Plains Shire Council must comply with The Local Government Act and various other issued guidance such as “Circulars to Councils” from the Department of Local Government. The Department of Local Government has an Asset Accounting Manual that Council complies with. In addition to this accounting standard AASB 116 – “Property, Plant and Equipment” is the significant regulatory requirement relevant to accounting for assets.

The Council uses Authority software provided by Civica and Assetic for all asset accounting purposes. In addition to acquisition, disposal, revaluation and depreciation transactions, the system also tracks expenditure on maintenance and capital renewal projects via a Work Order system. Where appropriate, these costs are then transferred by journal to the Assetic Asset Register. The Authority system is controlled by the Corporate & Business Services Division of Council, with the Director Corporate Services and the Chief Financial Officer.

Accountabilities and responsibilities are divided between Corporate & Business Services and the asset owner (responsibility area) according to function. The asset owners provide information on the relevant assets and identify expenditure with the relevant Work Orders. Corporate & Business Services staff creates the records within the Asset Register and process expenditure to work orders or direct to the Asset Register where appropriate.

While Council has employed a \$5,000 capitalisation threshold for several years, the Water Supply Asset Management Policy had previously adopted lower thresholds to cater for individual items including water meters, which due to their significant numbers represent a large asset value.

ASB 116 revaluation requirements and asset management planning have identified shortcomings in this approach, which will be revised during 2011/12. This will constitute one component of Asset Accounting Policy and Procedures to be developed during 2011/12.

### **7.2 Asset Management Systems**

- Authority - customer billing, water meter register and customer water consumption information
- Assetic – Asset Register
- Predictor- Asset management system
- Tr@cer Weeds- Asset capture software
- AssetEdge
- Control
- Financial System - Authority

### **7.3 Information Flow Requirements and Processes**

The key information flows *into* this asset management plan are:

- The asset register data on size, age, value, remaining life of the network;
- The unit rates for categories of work/material;
- The adopted service levels;
- Projections of various factors affecting future demand for services;
- Correlations between maintenance and renewal, including decay models;
- Data on new assets acquired by council.

The key information flows *from* this asset management plan are:

- The assumed Works Program and trends;
- The resulting budget, valuation and depreciation projections;
- The useful life analysis.

These will impact the Long Term Financial Plan, Strategic Business Plan, annual budget and departmental business plans and budgets.

#### 7.4 Standards and Guidelines

Liverpool Plains Shire Council Asset Management Policy, 2.19

Liverpool Plains Shire Council Engineering Guidelines for Development and Subdivisions

AUSTROADS

RTA ROAD DESIGN MANUALS

## 8. PLAN IMPROVEMENT AND MONITORING

### 8.1 Performance Measures

The effectiveness of the asset management plan can be measured in the following ways:

- The degree to which the required cash flows identified in this asset management plan are incorporated into council's long term financial plan and Strategic Management Plan;
- The degree to which 1-5 year detailed works programs, budgets, business plans and organisational structures take into account the 'global' works program trends provided by the asset management plan;

### 8.2 Improvement Plan

The asset management improvement plan generated from this asset management plan is shown in Table 8.2.

**Table 8.2**      **Improvement Plan**

Task No	Task	Responsibility	Resources Required	Timeline
1.	Condition assessment of facility assets	WAM		
2.	Analyse available performance data	WAM		
3.	Document more detailed rating of facility assets.	WAM		
4.	Document risk analysis	WAM		
5.	Compile a more detailed 10 year renewals plan	WAM		
6.	Employ an Administration Officer to improve data capture and analysis efficiencies	WAM		

### 8.3 Monitoring and Review Procedures

This asset management plan will be reviewed during annual budget preparation and amended to recognise any changes in service levels and/or resources available to provide those services as a result of the budget decision process.

The Plan has a life of 4 years and is due for revision and updating within 2 years of each Council election.

## REFERENCES

Liverpool Plains Shire Council, 'Strategic Management Plan 2010 – 2020

Liverpool Plains Shire Council, 'Annual Plan and Budget.

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<http://www.dvc.vic.gov.au/web20/dvclgv.nsf/allDocs/RWP1C79EC4A7225CD2FCA257170003259F6?OpenDocument>

IPWEA, 2011, 'International Infrastructure Management Manual', Institute of Public Works Engineering Australia, Sydney, [www.ipwea.org.au](http://www.ipwea.org.au)

## APPENDICES

### Appendix A ROADS ASSETS LIST

### Appendix B Projected 20 year Capital Renewal Works Program

Liverpool Plains SC >> Renewal Program (ROADS)									
UID	Asset ID	Sub	Asset Name	From	To	Rem	Planned	Renewal	Useful
		Category				Life	Renewal	Cost	Life
						(Years)	Year	(\$)	(Years)
22584556	269	Sealed	ANZAC PDE	130	231	0	2011	\$27,598.77	40
22584557	270	Sealed	ANZAC PDE	231	508	0	2011	\$69,526.34	40
22584558	271	Sealed	BOLTON ST	0	112	0	2011	\$26,331.13	40
22584560	274	Sealed	CORONATION AVE	0	211	0	2011	\$53,631.40	40
22584561	275	Sealed	CORONATION AVE	211	425	0	2011	\$78,209.51	40
22584564	278	Sealed	DAVIS ST	0	225	0	2011	\$27,857.61	40
22584565	431	Sealed	SIMPSON ST	0	225	0	2011	\$26,676.00	40
22584573	433	Sealed	SNAPE ST	0	200	0	2011	\$34,937.20	40
22583875	199	Unsealed	ANDREW ST	0	130	0	2011	\$4,686.83	40
22583847	169	Unsealed	ARMIDALE ST	0	60	0	2011	\$3,377.25	40
22583863	188	Unsealed	BEHIND HOUSES (UNNAMED)	0	0.3	0	2011	\$10.82	40
22583849	172	Unsealed	BOLTON ST	0	360	0	2011	\$16,621.20	40
22583786	110	Unsealed	CALLAGHANS LANE	0	2910	0	2011	\$163,796.63	40
22583986	E1	Unsealed	Echo Hills Rd	0	300	0	2011	\$17,442.00	40
22583855	178	Unsealed	MAITLAND ST	0	440	0	2011	\$20,314.80	40
22583831	151	Unsealed	MENZ RD	0	1770	0	2011	\$99,628.88	40
22583795	119	Unsealed	MIRRABOOKA LANE	0	1440	0	2011	\$88,338.60	40
22583858	182	Unsealed	NURSERY RD	0	60	0	2011	\$2,891.61	40
22583859	183	Unsealed	PEMBERTON ST	0	310	0	2011	\$14,939.99	40
22583787	111	Unsealed	POLLOCKS LANE	0	1780	0	2011	\$100,191.75	40
22583901	221	Unsealed	ROBEY AVE	0	230	0	2011	\$12,946.13	40
22583862	187	Unsealed	SUTTONS RD	0	430	0	2011	\$17,677.84	40
22583861	185	Unsealed	SUTTONS RD	0	820	0	2011	\$33,711.23	40
22583910	28	Unsealed	SWINGING RIDGES RD	0	580	0	2011	\$32,646.75	40
22583874	198	Unsealed	Unknown St	0	70	0	2011	\$4,648.35	40
22583835	156	Unsealed	WERRIS CREEK TIP RD	0	710	0	2011	\$43,555.84	40
Subtotal								\$1,022,194.41	
22584709	268.1	Sealed	ANZAC PDE	0	130	1	2012	\$47,717.13	40

22584681	251.1	Sealed	CAROONA MISSION RD	0	850	1	2012	\$132,266.89	40
22584912	286	Sealed	DEEKS ST	1316	1336	1	2012	\$2,603.42	40
22584920	294	Sealed	FLETCHER ST	0	16	1	2012	\$1,701.18	40
22584575	435	Sealed	SPRING ST	0	95	1	2012	\$13,574.50	40
22584733	448.9	Sealed	WALLABADAH RD	8000	9000	1	2012	\$166,736.88	40
22584582	442	Sealed	WATERFORD ST	0	90	1	2012	\$14,290.90	40
22584105	166.1	Unsealed	ANNIES LANE	300	1750	1	2012	\$81,616.88	40
22584077	139.2	Unsealed	BLOOMFIELDS RD	1690	3240	1	2012	\$87,245.63	40
22584079	14.1	Unsealed	CATTLE CREEK RD	11175	13600	1	2012	\$111,962.25	40
22584136	20.1	Unsealed	CLOWES RD	540	1550	1	2012	\$67,069.05	40
22584056	125.1	Unsealed	DARBYS RD	1250	2340	1	2012	\$61,353.38	40
22584110	18.11	Unsealed	MCDONALDS CREEK RD	10225	11160	1	2012	\$52,628.81	40
22584051	119.2	Unsealed	MIRRABOOKA LANE	1000	2090	1	2012	\$66,867.41	40
22584037	11.2	Unsealed	SHARE FARMS RD	3800	4770	1	2012	\$54,598.88	40
22584038	11.3	Unsealed	SHARE FARMS RD	4770	6000	1	2012	\$69,233.63	40
22584039	11.4	Unsealed	SHARE FARMS RD	6000	7110	1	2012	\$62,479.13	40
22584048	118.1	Unsealed	SLEIGHTHOLMES RD	1500	2000	1	2012	\$28,143.75	40
22584049	118.2	Unsealed	SLEIGHTHOLMES RD	2000	3430	1	2012	\$80,491.13	40
22584074	137.1	Unsealed	TELARGRA RD	1200	2100	1	2012	\$50,658.75	40
22584075	137.2	Unsealed	TELARGRA RD	2100	2980	1	2012	\$49,533.00	40
22584060	128.3	Unsealed	TRIBELLA RD	2140	3550	1	2012	\$79,365.38	40
22584061	128.4	Unsealed	TRIBELLA RD	3550	4240	1	2012	\$38,838.38	40
22584062	128.5	Unsealed	TRIBELLA RD	4240	5125	1	2012	\$49,814.44	40
22584063	128.6	Unsealed	TRIBELLA RD	5125	6500	1	2012	\$77,395.31	40
22584064	128.7	Unsealed	TRIBELLA RD	6500	7690	1	2012	\$66,982.13	40
22584066	128.9	Unsealed	TRIBELLA RD	8380	9050	1	2012	\$37,712.63	40
Subtotal								\$1,652,880.78	
22584957	331	Sealed	CADDELL ST	0	180	2	2013	\$24,289.27	40
22584960	334	Sealed	FAIRBAIRN ST	0	380	2	2013	\$48,256.68	40
22584938	312	Sealed	LENORD ST	0	222	2	2013	\$54,309.70	40
22584941	315	Sealed	MITSEL CL	0	115	2	2013	\$18,626.25	40
22584946	320	Sealed	POOLE ST	0	417	2	2013	\$92,732.77	40
22584950	324	Sealed	PUNYARRA ST	0.539	782	2	2013	\$117,874.50	40
22584951	325	Sealed	RUSSELL ST	0	281	2	2013	\$63,829.21	40
22584952	326	Sealed	RUSSELL ST	281	383	2	2013	\$15,709.86	40
22584953	327	Sealed	SUTTONS ROAD	0	30	2	2013	\$4,763.63	40
22584956	330	Sealed	WILKIE ST	0	224	2	2013	\$53,374.50	40
22583993	1.15	Unsealed	BUNDELLA RD	22650	26050	2	2013	\$242,976.75	40
22583994	1.16	Unsealed	BUNDELLA RD	26050	26850	2	2013	\$57,171.00	40
22583995	1.17	Unsealed	BUNDELLA RD	26850	28700	2	2013	\$132,207.94	40
22584002	1.23	Unsealed	BUNDELLA RD	35500	36300	2	2013	\$57,171.00	40
22584026	104.1	Unsealed	GREYS RD	1100	1980	2	2013	\$40,629.60	40
22584027	104.2	Unsealed	GREYS RD	1980	2420	2	2013	\$20,314.80	40
22584028	104.3	Unsealed	GREYS RD	2420	3250	2	2013	\$38,321.10	40
22583964	8	Unsealed	MOREDUVAL LANE	0	2210	2	2013	\$128,867.31	40
22583984	98	Unsealed	PENGILLEY LANE	0	500	2	2013	\$28,143.75	40
22583970	85	Unsealed	TEREALA RD	0	1420	2	2013	\$79,928.25	40
22583981	95	Unsealed	WOODS RD	0	900	2	2013	\$50,658.75	40
Subtotal								\$1,370,156.62	
22584996	372	Sealed	CHURCH AVE	0	770	3	2014	\$122,266.57	40
22584997	373	Sealed	CHURCH ST	0	1140	3	2014	\$217,266.05	40
22584998	374	Sealed	COLLARENE RD	0	210	3	2014	\$40,022.69	40
22584968	342	Sealed	CORONA ST	0	164	3	2014	\$20,826.57	40
22584986	362	Sealed	DARBY ST	0	1050	3	2014	\$124,994.23	40
22584961	335	Sealed	HENRY ST	0	230	3	2014	\$54,804.17	40
22584967	341	Sealed	OGDEN ST	0	110	3	2014	\$13,969.04	40
22584964	338	Sealed	RECREATION RD	0	1150	3	2014	\$164,322.93	40

22584212	40.3	Unsealed	BARNBROOK RD	4660	5650	3	2014	\$70,749.11	40
22584214	40.5	Unsealed	BARNBROOK RD	7325	8050	3	2014	\$51,811.22	40
22584215	40.6	Unsealed	BARNBROOK RD	8050	9500	3	2014	\$103,622.44	40
22584216	40.7	Unsealed	BARNBROOK RD	9500	10100	3	2014	\$42,878.25	40
22583878	200	Unsealed	BENT ST	0	120	3	2014	\$5,540.40	40
22584377	69.8	Unsealed	BLACK CREEK RD	7680	8775	3	2014	\$67,174.14	40
22584378	69.9	Unsealed	BLACK CREEK RD	8775	9250	3	2014	\$29,139.47	40
22584370	69.1	Unsealed	BLACK CREEK RD	9250	10210	3	2014	\$58,892.40	40
22583879	201	Unsealed	BLAIRMONT ST	0	100	3	2014	\$5,628.75	40
22584459	82.5	Unsealed	BRUNSKILLS RD	5700	6300	3	2014	\$33,772.50	40
22584460	82.6	Unsealed	BRUNSKILLS RD	6300	7370	3	2014	\$60,227.63	40
22584470	83.9	Unsealed	BUNDELLA CREEK RD	12550	13000	3	2014	\$27,605.81	40
22584462	83.1	Unsealed	BUNDELLA CREEK RD	13000	14880	3	2014	\$115,330.95	40
22584475	86.1	Unsealed	CATTLE LANE	15250	16460	3	2014	\$68,107.88	40
22584476	86.11	Unsealed	CATTLE LANE	16460	19400	3	2014	\$165,485.25	40
22584477	86.12	Unsealed	CATTLE LANE	19400	21880	3	2014	\$139,593.00	40
22583882	204	Unsealed	CAVANAGH LANE	0	230	3	2014	\$10,619.10	40
22583883	205	Unsealed	CHARLES ST	0	340	3	2014	\$12,257.85	40
22584497	89.4	Unsealed	CLAREMONT RD	3975	5510	3	2014	\$86,401.31	40
22583877	20	Unsealed	CLOWES RD	0	540	3	2014	\$35,858.70	40
22584137	20.2	Unsealed	CLOWES RD	1550	2950	3	2014	\$92,967.00	40
22584138	20.3	Unsealed	CLOWES RD	2950	3600	3	2014	\$43,163.25	40
22584139	20.4	Unsealed	CLOWES RD	3600	4200	3	2014	\$39,843.00	40
22584199	38.1	Unsealed	FISHERS LANE	1050	2300	3	2014	\$70,359.38	40
22584200	38.2	Unsealed	FISHERS LANE	2300	3130	3	2014	\$46,718.63	40
22583891	212	Unsealed	GURTON ST	0	420	3	2014	\$36,388.80	40
22583892	213	Unsealed	HAGUE AVE	0	170	3	2014	\$7,848.90	40
22583894	215	Unsealed	HUNGERFORD LANE	0	240	3	2014	\$15,937.20	40
22583899	22	Unsealed	HUNTERS RD	0	750	3	2014	\$42,215.63	40
22584141	22.1	Unsealed	HUNTERS RD	750	1500	3	2014	\$42,215.63	40
22583895	216	Unsealed	JOHNS AVE	0	40	3	2014	\$1,442.10	40
22583949	65	Unsealed	JONES RD	0	480	3	2014	\$22,161.60	40
22583939	56	Unsealed	KANGAROO CREEK RD	0	2900	3	2014	\$133,893.00	40
22583917	34	Unsealed	KANKOOL ACCESS RD	0	800	3	2014	\$36,936.00	40
22583916	33	Unsealed	MEYNS LANE	0	1510	3	2014	\$84,994.13	40
22584311	6.5	Unsealed	PANDORA'S PASS RD	6650	7850	3	2014	\$67,545.00	40
22584312	6.6	Unsealed	PANDORA'S PASS RD	7850	8600	3	2014	\$42,215.63	40
22584313	6.7	Unsealed	PANDORA'S PASS RD	8600	10100	3	2014	\$84,431.25	40
22583945	61	Unsealed	PLANTATION RD	0	2700	3	2014	\$151,976.25	40
22584451	81.1	Unsealed	SPAINS LANE	600	1600	3	2014	\$56,287.50	40
22583888	21	Unsealed	TOURLES RD	0	1000	3	2014	\$46,170.00	40
22584140	21.1	Unsealed	TOURLES RD	1000	1720	3	2014	\$33,242.40	40
22584350	66.1	Unsealed	WANDOBAN RD	11875	13250	3	2014	\$84,351.09	40
22584514	93.7	Unsealed	WEBLANDS RD	8000	8800	3	2014	\$61,218.00	40
22584515	93.8	Unsealed	WEBLANDS RD	8800	9860	3	2014	\$81,113.85	40
22584473	84.3	Unsealed	WHITTONS RD	2475	4960	3	2014	\$139,874.44	40
22584518	95.2	Unsealed	WOODS RD	1950	2880	3	2014	\$52,347.38	40
22584519	95.3	Unsealed	WOODS RD	2880	3420	3	2014	\$30,395.25	40
22584517	95.1	Unsealed	WOODS RD	900	1950	3	2014	\$59,101.88	40
22584422	75.9	Unsealed	YARRAMAN CREEK RD	9600	11390	3	2014	\$109,809.79	40
Subtotal								\$3,766,332.31	
22585001	377	Sealed	CROMARTY ST	0	370	4	2015	\$58,751.47	40
22585003	379	Sealed	DALLEY ST	0	380	4	2015	\$138,876.70	40
22585013	389	Sealed	FITSZROY ST (EAST)	0	900	4	2015	\$150,063.19	40
22585015	391	Sealed	FREETRADE ST	0	90	4	2015	\$14,290.90	40
22585018	394	Sealed	HANNAFORD DR	0	230	4	2015	\$29,207.99	40
22585034	410	Sealed	MUNRO ST	0	820	4	2015	\$182,352.22	40
22583931	49	Unsealed	4D Rd	0	1730	4	2015	\$79,874.10	40

22584532	98.2	Unsealed	PENGILLEY LANE	2200	3270	4	2015	\$60,227.63	40
22584533	98.3	Unsealed	PENGILLEY LANE	3270	4100	4	2015	\$46,718.63	40
22584534	98.4	Unsealed	PENGILLEY LANE	4100	4900	4	2015	\$45,030.00	40
22584535	98.5	Unsealed	PENGILLEY LANE	4900	6260	4	2015	\$76,551.00	40
22584531	98.1	Unsealed	PENGILLEY LANE	500	2200	4	2015	\$95,688.75	40
22584327	61.6	Unsealed	PLANTATION RD	10900	12100	4	2015	\$67,545.00	40
22584328	61.7	Unsealed	PLANTATION RD	12100	13450	4	2015	\$75,988.13	40
22584322	61.1	Unsealed	PLANTATION RD	2700	3700	4	2015	\$56,287.50	40
22584323	61.2	Unsealed	PLANTATION RD	3700	5000	4	2015	\$73,173.75	40
22584324	61.3	Unsealed	PLANTATION RD	5000	6560	4	2015	\$87,808.50	40
22584325	61.4	Unsealed	PLANTATION RD	6560	9650	4	2015	\$173,928.38	40
22584326	61.5	Unsealed	PLANTATION RD	9650	10900	4	2015	\$70,359.38	40
22584129	2.3	Unsealed	SEVEN CREEKS RD	3790	4800	4	2015	\$72,178.39	40
Subtotal								\$1,654,901.57	
22585038	414	Sealed	NOWLAND ST	0	610	5	2016	\$222,933.65	40
22585039	415	Sealed	OGLE AVE	0	400	5	2016	\$57,155.80	40
22585041	417	Sealed	PHILLIP ST	0	140	5	2016	\$26,681.80	40
22585053	429	Sealed	SATCHELL ST	0	85	5	2016	\$13,496.96	40
22583830	150	Unsealed	BAILEYS RD	0	420	5	2016	\$23,640.75	40
22583864	189	Unsealed	BEHIND TENNIS COURTS (UNNAMED)	0	300	5	2016	\$10,815.75	40
22583821	142	Unsealed	BRADYS LANE	0	910	5	2016	\$51,221.63	40
22583868	192	Unsealed	BROUGHTON ST	0	375	5	2016	\$13,519.69	40
22583852	175	Unsealed	DEEKS ST	0	30	5	2016	\$1,324.40	40
22583873	197	Unsealed	DUKE ST (WEST)	0	80	5	2016	\$6,121.80	40
22583800	123	Unsealed	FORDS RD	0	1510	5	2016	\$84,994.13	40
22583801	124	Unsealed	GARDINERS RD	0	1020	5	2016	\$57,413.25	40
22583794	118	Unsealed	SLEIGHTHOLMES RD	0	1500	5	2016	\$84,431.25	40
22583832	152	Unsealed	ST ELMO RD	0	310	5	2016	\$17,449.13	40
22583815	137	Unsealed	TELARGRA RD	0	1200	5	2016	\$67,545.00	40
22583816	138	Unsealed	WALHOLLOW RD	0	775	5	2016	\$43,622.81	40
22583793	117	Unsealed	WILSONS RD	0	820	5	2016	\$46,155.75	40
Subtotal								\$828,523.52	
22584562	276	Sealed	CORONATION AVE	425	474	8	2019	\$6,845.78	40
22584563	277	Sealed	CORONATION AVE	474	531	8	2019	\$18,475.38	40
22584543	236	Sealed	PIALLAWAY RD	0	19214	8	2019	\$2,440,009.88	40
22584577	437	Sealed	STOREY ST	0	130	8	2019	\$26,842.73	40
22584579	439	Sealed	TEBBUTT ST	0	240	8	2019	\$38,109.06	40
22584584	444	Sealed	WILLIAM ST	0	230	8	2019	\$32,864.59	40
Subtotal								\$2,563,147.41	
22584687	252.5	Sealed	BULUNBULUN RD (BREEZA RD)	4000	5000	9	2020	\$126,991.25	40
22584690	252.8	Sealed	BULUNBULUN RD (BREEZA RD)	7000	8000	9	2020	\$126,991.25	40
22584683	252.1	Sealed	BULUNBULUN RD (BREEZA RD)	9000	9920	9	2020	\$116,831.95	40
22583775	100	Unsealed	BELTANA RD	0	1240	9	2020	\$69,796.50	40
22583773	1	Unsealed	BUNDELLA RD	0	900	9	2020	\$64,317.38	40
22583791	115	Unsealed	CARTERS RD	0	1420	9	2020	\$79,928.25	40
22583779	104	Unsealed	GREYS RD	0	1100	9	2020	\$50,787.00	40
22583782	107	Unsealed	KNIGHTS RD	0	1000	9	2020	\$61,346.25	40
22583776	101	Unsealed	NOWLEY RD	0	465	9	2020	\$26,173.69	40
22583785	11	Unsealed	SHARE FARMS RD	0	2000	9	2020	\$112,575.00	40
22583780	105	Unsealed	WEAVERS RD	0	850	9	2020	\$47,844.38	40
Subtotal								\$883,582.89	
22584707	262.1	Sealed	ABOUDS RD	38	790	10	2021	\$125,386.13	40
22584714	447.3	Sealed	NUNDLE RD	2000	3000	10	2021	\$174,686.00	40
22584715	447.4	Sealed	NUNDLE RD	3000	4000	10	2021	\$174,686.00	40



22584716	447.5	Sealed	NUNDLE RD	4000	4710	10	2021	\$124,027.06	40
22583798	121	Unsealed	LINDEMANS LANE	0	1400	10	2021	\$78,802.50	40
22583799	122	Unsealed	PEZZUTOS RD	0	1150	10	2021	\$64,730.63	40
22583807	13	Unsealed	ROACHS RD	0	1500	10	2021	\$69,255.00	40
22583796	12	Unsealed	STAPLEGROVE RD	0	1700	10	2021	\$95,688.75	40
22583806	129	Unsealed	TRAILLS RD	0	2100	10	2021	\$118,203.75	40
22583805	128	Unsealed	TRIBELLA RD	0	980	10	2021	\$55,161.75	40
22583804	127	Unsealed	YORK'S ROAD	0	1180	10	2021	\$66,419.25	40
Subtotal								\$1,147,046.82	
22584717	448.1	Sealed	WALLABADAH RD	0	1000	11	2022	\$166,736.88	40
22584720	448.12	Sealed	WALLABADAH RD	11000	12000	11	2022	\$166,736.88	40
22584728	448.4	Sealed	WALLABADAH RD	3000	4000	11	2022	\$166,736.88	40
22584732	448.8	Sealed	WALLABADAH RD	7000	8000	11	2022	\$166,736.88	40
22583820	141	Unsealed	BALDOCKS DR	0	1070	11	2022	\$65,640.49	40
22583817	139	Unsealed	BLOOMFIELDS RD	0	700	11	2022	\$39,401.25	40
22583813	135	Unsealed	CARTER LANE	0	230	11	2022	\$12,946.13	40
22583826	147	Unsealed	CHRISTMAS TREE LANE	0	550	11	2022	\$30,958.13	40
22583808	130	Unsealed	CLIFT RD	0	1210	11	2022	\$68,107.88	40
22583819	140	Unsealed	GOLLANDS RD	0	120	11	2022	\$6,754.50	40
22583827	148	Unsealed	KEECHS RD	0	750	11	2022	\$42,215.63	40
22583825	146	Unsealed	MCLEANS RD	0	370	11	2022	\$20,826.38	40
22583809	131	Unsealed	SULLINGS LANE	0	460	11	2022	\$28,219.28	40
Subtotal								\$982,017.14	
22584893	453.1	Sealed	WAVERLEY RD	0	1000	12	2023	\$174,686.00	40
22584896	453.12	Sealed	WAVERLEY RD	11000	11080	12	2023	\$13,974.88	40
22584904	453.9	Sealed	WAVERLEY RD	8000	9000	12	2023	\$174,686.00	40
22584894	453.1	Sealed	WAVERLEY RD	9000	10000	12	2023	\$174,686.00	40
22583844	166	Unsealed	ANNIES LANE	0	300	12	2023	\$16,886.25	40
22583845	167	Unsealed	ANZAC PARADE	508	718	12	2023	\$10,970.51	40
22583870	194	Unsealed	ARNOLD AVE	0	250	12	2023	\$14,071.88	40
22583881	203	Unsealed	CADELL ST	0	50	12	2023	\$2,814.38	40
22583850	173	Unsealed	CEMETERY ROAD	0	360	12	2023	\$17,349.66	40
22583836	157	Unsealed	CLIFT LANE	0	1120	12	2023	\$63,042.00	40
22583867	191	Unsealed	COACH ST	0	200	12	2023	\$13,281.00	40
22583838	159	Unsealed	CURRABUBULA STOCK ROUTE RD	0	4250	12	2023	\$239,221.88	40
22583872	196	Unsealed	DUKE ST (EAST)	0	330	12	2023	\$25,252.43	40
22583833	153	Unsealed	FAIRVIEW RD	0	1650	12	2023	\$92,874.38	40
22583865	19	Unsealed	GLASSTON RD	0	1750	12	2023	\$116,208.75	40
22583869	193	Unsealed	LAWRENCE ST	0	150	12	2023	\$9,960.75	40
22583842	162	Unsealed	LOMAX RD	0	300	12	2023	\$13,851.00	40
22583857	181	Unsealed	MARLOW ST	0	200	12	2023	\$9,234.00	40
22583837	158	Unsealed	MT COBLA RD	0	1240	12	2023	\$69,796.50	40
22583841	161	Unsealed	MYSTERY RD	0	1120	12	2023	\$63,042.00	40
22583839	16	Unsealed	PHILLIPS CREEK RD	0	650	12	2023	\$30,010.50	40
22583876	2	Unsealed	SEVEN CREEKS RD	0	1770	12	2023	\$126,490.84	40
22583829	15	Unsealed	SILLIFANTS RD	0	2450	12	2023	\$137,904.38	40
22583834	155	Unsealed	WARRAH SUBDIVISION RD	0	950	12	2023	\$53,473.13	40
Subtotal								\$1,663,769.06	
22584905	279	Sealed	DAVIS ST	225	329	13	2024	\$14,199.14	40
22584909	283	Sealed	DEEKS ST	381	728	13	2024	\$50,686.00	40
22584910	284	Sealed	DEEKS ST	728	748	13	2024	\$3,430.13	40
22584911	285	Sealed	DEEKS ST	748	1316	13	2024	\$75,743.11	40
22584921	295	Sealed	FLETCHER ST	0.016	195	13	2024	\$33,131.00	40
22584922	296	Sealed	GORDON ST	0	436	13	2024	\$98,344.33	40
22583927	45	Unsealed	BASIN CREEK RD	0	1080	13	2024	\$60,790.50	40

22583953	69	Unsealed	BLACK CREEK RD	0	1785	13	2024	\$109,503.06	40
22583928	46	Unsealed	BOLAH GAP RD	0	875	13	2024	\$40,398.75	40
22583967	82	Unsealed	BRUNSKILLS RD	0	750	13	2024	\$42,215.63	40
22583968	83	Unsealed	BUNDELLA CREEK RD	0	1500	13	2024	\$92,019.38	40
22583921	39	Unsealed	CANA RD	0	1080	13	2024	\$77,180.85	40
22583934	51	Unsealed	COLLY PLAINS RD	0	1000	13	2024	\$61,346.25	40
22583884	206	Unsealed	CONLON ST	0	60	13	2024	\$3,377.25	40
22583958	74	Unsealed	COX'S CREEK RD	0	1990	13	2024	\$122,079.04	40
22583907	25	Unsealed	DELLARS RD	0	1030	13	2024	\$57,976.13	40
22583911	29	Unsealed	DRY CREEK RD	0	1200	13	2024	\$67,545.00	40
22583889	210	Unsealed	FORTUNE ST (MIDDLE)	0	400	13	2024	\$22,515.00	40
22583955	71	Unsealed	FULLERS LANE	0	1140	13	2024	\$69,934.73	40
22583954	70	Unsealed	GASPARD RD	0	2100	13	2024	\$128,827.13	40
22583938	55	Unsealed	HAMILTON'S RD	0	1200	13	2024	\$97,897.50	40
22583908	26	Unsealed	HARRISONS PLAINS RD	0	1720	13	2024	\$114,216.60	40
22583893	214	Unsealed	HOGARTH LANE	0	90	13	2024	\$3,244.73	40
22583961	77	Unsealed	HOWES HILL RD	0	900	13	2024	\$73,423.13	40
22583956	72	Unsealed	INVERKIP RD	0	1570	13	2024	\$88,371.38	40
22583965	80	Unsealed	KINGSMILL RD	0	1000	13	2024	\$56,287.50	40
22583926	44	Unsealed	MCCULLOCHS RD	0	960	13	2024	\$54,036.00	40
22583942	59	Unsealed	MERRILONG RD	0	1000	13	2024	\$86,640.00	40
22583896	217	Unsealed	NICHOLL AVE	0	240	13	2024	\$13,509.00	40
22583963	79	Unsealed	NORVILLS RD	0	1210	13	2024	\$68,107.88	40
22583897	218	Unsealed	O'NEILL LANE	0	140	13	2024	\$5,047.35	40
22583943	6	Unsealed	PANDORA'S PASS RD	0	1300	13	2024	\$73,173.75	40
22583900	220	Unsealed	RAILWAY ST	0	50	13	2024	\$2,308.50	40
22583966	81	Unsealed	SPAINS LANE	0	600	13	2024	\$33,772.50	40
22583902	223	Unsealed	TAYLOR ST	0	230	13	2024	\$10,619.10	40
22583903	224	Unsealed	TAYLOR ST	0	300	13	2024	\$19,921.50	40
22583950	66	Unsealed	WANDOBAN RD	0	1080	13	2024	\$66,253.95	40
22583909	27	Unsealed	WARRAH CREEK RD	0	1150	13	2024	\$64,730.63	40
22583930	48	Unsealed	WILLIEWARINA RD	0	1750	13	2024	\$125,061.56	40
22583960	76	Unsealed	WILMOTTS RD	0	1650	13	2024	\$101,221.31	40
22583959	75	Unsealed	YARRAMAN CREEK RD	0	1300	13	2024	\$79,750.13	40
Subtotal								\$2,468,836.36	
22584958	332	Sealed	CORAL ST	0	150	14	2025	\$16,663.95	40
22584959	333	Sealed	EIPPER ST	0	250	14	2025	\$55,595.19	40
22584948	322	Sealed	PUNYARRA ST	0	231	14	2025	\$47,697.46	40
22584949	323	Sealed	PUNYARRA ST	0.231	308	14	2025	\$56,209.43	40
22584947	321	Sealed	PUNYARRA ST	0.98	98	14	2025	\$15,097.10	40
22584976	351	Sealed	VICTOR ST	0	500	14	2025	\$63,495.63	40
22583978	92	Unsealed	BAKERS RD	0	900	14	2025	\$50,658.75	40
22583975	9	Unsealed	BARTONS LANE	0	1375	14	2025	\$115,652.11	40
22583988	1.1	Unsealed	BUNDELLA RD	15150	17500	14	2025	\$167,939.81	40
22583989	1.11	Unsealed	BUNDELLA RD	17500	19000	14	2025	\$107,195.63	40
22583990	1.12	Unsealed	BUNDELLA RD	19000	20350	14	2025	\$96,476.06	40
22583991	1.13	Unsealed	BUNDELLA RD	20350	21750	14	2025	\$100,049.25	40
22583992	1.14	Unsealed	BUNDELLA RD	21750	22650	14	2025	\$64,317.38	40
22583996	1.18	Unsealed	BUNDELLA RD	28700	29650	14	2025	\$67,890.56	40
22583997	1.19	Unsealed	BUNDELLA RD	29650	31700	14	2025	\$146,500.69	40
22583999	1.2	Unsealed	BUNDELLA RD	31700	32950	14	2025	\$89,329.69	40
22584000	1.21	Unsealed	BUNDELLA RD	32950	34050	14	2025	\$78,610.13	40
22584001	1.22	Unsealed	BUNDELLA RD	34050	35500	14	2025	\$103,622.44	40
22584003	1.24	Unsealed	BUNDELLA RD	36300	38500	14	2025	\$157,220.25	40
22583998	1.2	Unsealed	BUNDELLA RD	3800	5900	14	2025	\$150,073.88	40
22584004	1.25	Unsealed	BUNDELLA RD	38500	40820	14	2025	\$165,795.90	40
22583987	1.1	Unsealed	BUNDELLA RD	900	3800	14	2025	\$207,244.88	40
22583974	89	Unsealed	CLAREMONT RD	0	930	14	2025	\$52,347.38	40

22583973	88	Unsealed	COLLY BLUE ISLAND RD	0	875	14	2025	\$49,251.56	40
22583980	94	Unsealed	HOWARDS RD	0	750	14	2025	\$42,215.63	40
22583982	96	Unsealed	MOOKI SPRINGS RD	0	1375	14	2025	\$77,395.31	40
22583985	99	Unsealed	PURLEWAH RD	0	1000	14	2025	\$56,287.50	40
22583977	91	Unsealed	TONGUES RD	0	110	14	2025	\$6,191.63	40
22583979	93	Unsealed	WEBLANDS RD	0	900	14	2025	\$68,870.25	40
22583969	84	Unsealed	WHITTONS RD	0	800	14	2025	\$45,030.00	40
22583972	87	Unsealed	WOODLANDS RD	0	1055	14	2025	\$59,383.31	40
Subtotal								\$2,580,308.69	
22584987	363	Sealed	ABBOTT ST	0	380	15	2026	\$145,820.54	40
22584982	358	Sealed	BROUGHTON ST	0	100	15	2026	\$15,083.86	40
22585026	402	Sealed	CLARKE ST	0	489	15	2026	\$124,292.68	40
22585002	378	Sealed	CROSS ST	0	110	15	2026	\$19,215.46	40
22585036	412	Sealed	NORTH AVE	0	390	15	2026	\$55,726.91	40
22584009	1.7	Unsealed	BUNDELLA RD	11100	12150	15	2026	\$75,036.94	40
22584010	1.8	Unsealed	BUNDELLA RD	12150	13450	15	2026	\$92,902.88	40
22584005	1.3	Unsealed	BUNDELLA RD	5900	7600	15	2026	\$121,488.38	40
22584006	1.4	Unsealed	BUNDELLA RD	7600	8900	15	2026	\$92,902.88	40
22584007	1.5	Unsealed	BUNDELLA RD	8900	9860	15	2026	\$68,605.20	40
22584008	1.6	Unsealed	BUNDELLA RD	9860	11100	15	2026	\$88,615.05	40
22584035	109.1	Unsealed	COLLY CREEK RD	900	2040	15	2026	\$64,167.75	40
22584045	114.1	Unsealed	DUMBLETON'S LANE	800	1910	15	2026	\$62,479.13	40
22584031	107.1	Unsealed	KNIGHTS RD	1000	2100	15	2026	\$67,480.88	40
22584032	107.2	Unsealed	KNIGHTS RD	2100	3000	15	2026	\$55,211.63	40
22584033	107.3	Unsealed	KNIGHTS RD	3000	4130	15	2026	\$69,321.26	40
22584050	119.1	Unsealed	MIRRABOOKA LANE	650	1000	15	2026	\$21,471.19	40
22584024	101.2	Unsealed	NOWLEY RD	2525	3930	15	2026	\$79,083.94	40
22584023	101.1	Unsealed	NOWLEY RD	465	2525	15	2026	\$115,952.25	40
22584042	111.1	Unsealed	POLLOCKS LANE	990	1780	15	2026	\$44,467.13	40
22584036	11.1	Unsealed	SHARE FARMS RD	2000	3800	15	2026	\$101,317.50	40
22584052	12.1	Unsealed	STAPLEGROVE RD	1700	2325	15	2026	\$35,179.69	40
22584053	12.2	Unsealed	STAPLEGROVE RD	2325	3775	15	2026	\$81,616.88	40
22584022	10.9	Unsealed	WALLABADAH CREEK RD	10685	12265	15	2026	\$96,927.08	40
22584013	10.1	Unsealed	WALLABADAH CREEK RD	12265	12970	15	2026	\$43,249.11	40
22584014	10.11	Unsealed	WALLABADAH CREEK RD	12970	14070	15	2026	\$67,480.88	40
22584017	10.4	Unsealed	WALLABADAH CREEK RD	5430	6490	15	2026	\$65,027.03	40
22584029	105.1	Unsealed	WEAVERS RD	850	2080	15	2026	\$69,233.63	40
Subtotal								\$2,039,357.66	
22584547	240	Sealed	GLEN ALPINE RD	0	550	16	2027	\$92,662.76	40
22584546	239	Sealed	GLENBROOK RD	0	160	16	2027	\$22,862.32	40
22584551	232	Sealed	GORAN LAKE RD	0	8084	16	2027	\$1,380,031.26	40
22584554	235	Sealed	HARRISONS PLAINS RD	0	3470	16	2027	\$440,659.64	40
22584555	245	Sealed	INVERKIP RD	0	10702	16	2027	\$1,444,131.89	40
22584541	243	Sealed	JOHNS LANE	0	490	16	2027	\$73,910.93	40
22584552	233	Sealed	MOREDUVAL LN	0	11116	16	2027	\$2,118,534.52	40
22584544	237	Sealed	WARRAH CREEK RD	0	7370	16	2027	\$1,277,388.67	40
22584550	231	Sealed	WARRAH RIDGE RD	0	11306	16	2027	\$2,084,555.06	40
22584076	139.1	Unsealed	BLOOMFIELDS RD	700	1690	16	2027	\$55,724.63	40
22584086	14.9	Unsealed	CATTLE CREEK RD	10650	11175	16	2027	\$24,239.25	40
22584083	14.6	Unsealed	CATTLE CREEK RD	6750	8500	16	2027	\$80,797.50	40
22584085	14.8	Unsealed	CATTLE CREEK RD	9300	10650	16	2027	\$62,329.50	40
22584095	157.1	Unsealed	CLIFT LANE	1120	2780	16	2027	\$93,437.25	40
22584096	159.1	Unsealed	CURRABUBULA STOCK ROUTE RD	1720	4250	16	2027	\$142,407.38	40
22584071	132.2	Unsealed	ESCOTT RD	2285	2800	16	2027	\$28,988.06	40
22584072	132.3	Unsealed	ESCOTT RD	2800	3950	16	2027	\$64,730.63	40
22584092	153.1	Unsealed	FAIRVIEW RD	1650	3200	16	2027	\$87,245.63	40

22584120	19.1	Unsealed	GLASSTON RD	1750	2250	16	2027	\$33,202.50	40
22584121	19.2	Unsealed	GLASSTON RD	2250	3200	16	2027	\$63,084.75	40
22584122	19.3	Unsealed	GLASSTON RD	3200	3875	16	2027	\$44,823.38	40
22584123	19.4	Unsealed	GLASSTON RD	3875	5000	16	2027	\$74,705.63	40
22584091	148.2	Unsealed	KEECHS RD	2180	3160	16	2027	\$55,161.75	40
22584090	148.1	Unsealed	KEECHS RD	750	2180	16	2027	\$80,491.13	40
22584109	18.1	Unsealed	MCDONALDS CREEK RD	9600	10225	16	2027	\$35,179.69	40
22584104	161.1	Unsealed	MYSTERY RD	1120	2700	16	2027	\$88,934.25	40
22584098	16.2	Unsealed	PHILLIPS CREEK RD	1550	2400	16	2027	\$39,244.50	40
22584099	16.3	Unsealed	PHILLIPS CREEK RD	2400	3600	16	2027	\$55,404.00	40
22584100	16.4	Unsealed	PHILLIPS CREEK RD	3600	4850	16	2027	\$57,712.50	40
22584101	16.5	Unsealed	PHILLIPS CREEK RD	4850	5500	16	2027	\$30,010.50	40
22584102	16.6	Unsealed	PHILLIPS CREEK RD	5500	5800	16	2027	\$13,851.00	40
22584097	16.1	Unsealed	PHILLIPS CREEK RD	650	1550	16	2027	\$41,553.00	40
22584067	13.1	Unsealed	ROACHS RD	1500	3000	16	2027	\$69,255.00	40
22584068	13.2	Unsealed	ROACHS RD	3000	3860	16	2027	\$39,706.20	40
22584069	13.3	Unsealed	ROACHS RD	3860	4505	16	2027	\$29,779.65	40
22584127	2.12	Unsealed	SEVEN CREEKS RD	14225	15350	16	2027	\$80,396.72	40
22584124	2.1	Unsealed	SEVEN CREEKS RD	1770	2650	16	2027	\$62,888.10	40
22584128	2.2	Unsealed	SEVEN CREEKS RD	2650	3790	16	2027	\$81,468.68	40
22584130	2.4	Unsealed	SEVEN CREEKS RD	4800	5700	16	2027	\$64,317.38	40
22584054	12.3	Unsealed	STAPLEGROVE RD	3775	5230	16	2027	\$81,898.31	40
22584055	12.4	Unsealed	STAPLEGROVE RD	5230	6000	16	2027	\$43,341.38	40
22584119	187.1	Unsealed	SUTTONS RD	0	1270	16	2027	\$52,211.29	40
22584087	140.1	Unsealed	TRAILS RD	2100	2900	16	2027	\$45,030.00	40
22584088	140.2	Unsealed	TRAILS RD	2900	4200	16	2027	\$73,173.75	40
22584059	128.2	Unsealed	TRIBELLA RD	1750	2140	16	2027	\$21,952.13	40
22584065	128.8	Unsealed	TRIBELLA RD	7690	8380	16	2027	\$38,838.38	40
22584058	128.1	Unsealed	TRIBELLA RD	980	1750	16	2027	\$43,341.38	40
22584094	155.2	Unsealed	WARRAH SUBDIVISION RD	1800	3230	16	2027	\$80,491.13	40
22584093	155.1	Unsealed	WARRAH SUBDIVISION RD	950	1800	16	2027	\$47,844.38	40
Subtotal								\$11,243,929.24	
22584567	229.22	Sealed	BLACKVILLE RD	21000	22000	17	2028	\$134,940.38	40
22584568	229.23	Sealed	BLACKVILLE RD	22000	23000	17	2028	\$134,940.38	40
22584570	229.25	Sealed	BLACKVILLE RD	24000	25000	17	2028	\$134,940.38	40
22584571	229.26	Sealed	BLACKVILLE RD	25000	25850	17	2028	\$114,699.32	40
22584559	272	Sealed	MEMORIAL DR	0	141	17	2028	\$16,784.94	40
22584566	432	Sealed	SMITH ST	0	180	17	2028	\$28,581.80	40
22584574	434	Sealed	SOUTH ST	0	270	17	2028	\$42,872.69	40
22584576	436	Sealed	STATION ST	0	630	17	2028	\$230,242.95	40
22584578	438	Sealed	STUART ST	0	390	17	2028	\$61,927.22	40
22584192	300	Unsealed	ANGWINS LANE	0	500	17	2028	\$33,202.50	40
22584153	24.5	Unsealed	BIG JACK CREEK RD	6500	7800	17	2028	\$86,326.50	40
22584154	24.6	Unsealed	BIG JACK CREEK RD	7800	8800	17	2028	\$66,405.00	40
22584155	24.7	Unsealed	BIG JACK CREEK RD	8800	9730	17	2028	\$61,756.65	40
22584201	39.1	Unsealed	CANA RD	1080	2675	17	2028	\$113,984.68	40
22584202	39.2	Unsealed	CANA RD	2675	4050	17	2028	\$98,262.66	40
22584203	39.3	Unsealed	CANA RD	4050	6375	17	2028	\$166,153.22	40
22584204	39.4	Unsealed	CANA RD	6375	7700	17	2028	\$94,689.47	40
22584205	39.5	Unsealed	CANA RD	7700	8220	17	2028	\$37,161.15	40
22584181	29.1	Unsealed	DRY CREEK RD	1200	2410	17	2028	\$68,107.88	40
22584182	29.2	Unsealed	DRY CREEK RD	2410	3175	17	2028	\$43,059.94	40
22584183	29.3	Unsealed	DRY CREEK RD	3175	3830	17	2028	\$36,868.31	40
22584194	36.2	Unsealed	GLENBROOK RD	1550	3700	17	2028	\$121,018.13	40
22584193	36.1	Unsealed	GLENBROOK RD	725	1550	17	2028	\$46,437.19	40
22584156	26.1	Unsealed	HARRISONS PLAINS RD	1720	2345	17	2028	\$41,503.13	40
22584157	26.3	Unsealed	HARRISONS PLAINS RD	2625	3600	17	2028	\$64,744.88	40
22584158	26.4	Unsealed	HARRISONS PLAINS RD	3600	4085	17	2028	\$32,206.43	40

22584147	23.2	Unsealed	LITTLE JACKS CREEK RD	1760	2750	17	2028	\$45,708.30	40
22584148	23.3	Unsealed	LITTLE JACKS CREEK RD	2750	4390	17	2028	\$75,718.80	40
22584146	23.1	Unsealed	LITTLE JACKS CREEK RD	800	1760	17	2028	\$44,323.20	40
22584190	30.1	Unsealed	PRESSES RD	1050	1900	17	2028	\$47,844.38	40
22584191	30.2	Unsealed	PRESSES RD	1900	2370	17	2028	\$26,455.13	40
22584206	4.1	Unsealed	ROCKGEDGIEL RD	1250	3250	17	2028	\$142,927.50	40
22584135	2.9	Unsealed	SEVEN CREEKS RD	10000	11550	17	2028	\$110,768.81	40
22584131	2.5	Unsealed	SEVEN CREEKS RD	5700	6300	17	2028	\$42,878.25	40
22584132	2.6	Unsealed	SEVEN CREEKS RD	6300	7425	17	2028	\$80,396.72	40
22584133	2.7	Unsealed	SEVEN CREEKS RD	7425	8675	17	2028	\$89,329.69	40
22584134	2.8	Unsealed	SEVEN CREEKS RD	8675	10000	17	2028	\$94,689.47	40
22584180	28.9	Unsealed	SWINGING RIDGES RD	10460	11950	17	2028	\$83,868.38	40
22584167	28.1	Unsealed	SWINGING RIDGES RD	11950	13575	17	2028	\$91,467.19	40
22584169	28.12	Unsealed	SWINGING RIDGES RD	14335	14625	17	2028	\$16,323.38	40
22584170	28.13	Unsealed	SWINGING RIDGES RD	14625	15570	17	2028	\$53,191.69	40
22584171	28.14	Unsealed	SWINGING RIDGES RD	15570	17400	17	2028	\$103,006.13	40
22584172	28.15	Unsealed	SWINGING RIDGES RD	17400	18550	17	2028	\$64,730.63	40
22584174	28.3	Unsealed	SWINGING RIDGES RD	2770	3800	17	2028	\$57,976.13	40
22584175	28.4	Unsealed	SWINGING RIDGES RD	3800	5600	17	2028	\$101,317.50	40
22584177	28.6	Unsealed	SWINGING RIDGES RD	6725	8000	17	2028	\$71,766.56	40
22584179	28.8	Unsealed	SWINGING RIDGES RD	9000	10460	17	2028	\$82,179.75	40
22584160	27.2	Unsealed	WARRAH CREEK RD	2000	2950	17	2028	\$53,473.13	40
22584163	27.5	Unsealed	WARRAH CREEK RD	6100	7200	17	2028	\$61,916.25	40
22584164	27.6	Unsealed	WARRAH CREEK RD	7200	8260	17	2028	\$59,664.75	40
22584165	27.7	Unsealed	WARRAH CREEK RD	8260	8800	17	2028	\$30,395.25	40
Subtotal								\$3,844,134.66	
22584600	227.2	Sealed	BUNDELLA RD	1000	2000	18	2029	\$166,736.88	40
22584591	227.11	Sealed	BUNDELLA RD	10000	11000	18	2029	\$166,736.88	40
22584593	227.13	Sealed	BUNDELLA RD	12000	13000	18	2029	\$166,736.88	40
22584594	227.14	Sealed	BUNDELLA RD	13000	14000	18	2029	\$166,736.88	40
22584596	227.16	Sealed	BUNDELLA RD	15000	16000	18	2029	\$166,736.88	40
22584597	227.17	Sealed	BUNDELLA RD	16000	17000	18	2029	\$166,736.88	40
22584599	227.19	Sealed	BUNDELLA RD	18000	19000	18	2029	\$166,736.88	40
22584602	227.21	Sealed	BUNDELLA RD	20000	21000	18	2029	\$166,736.88	40
22584590	227.1	Sealed	BUNDELLA RD	9000	10000	18	2029	\$166,736.88	40
22584586	446	Sealed	ROBEY AVE	0	260	18	2029	\$33,017.73	40
22584581	441	Sealed	UNDERWOOD ST	0	360	18	2029	\$51,440.22	40
22584585	445	Sealed	YOUNG ST	0	1110	18	2029	\$176,254.40	40
22584240	49.1	Unsealed	4D Rd	1730	2775	18	2029	\$48,247.65	40
22584241	49.2	Unsealed	4D Rd	2775	3500	18	2029	\$33,473.25	40
22584242	49.3	Unsealed	4D Rd	3500	4750	18	2029	\$57,712.50	40
22584243	49.4	Unsealed	4D Rd	4750	6850	18	2029	\$96,957.00	40
22584245	49.6	Unsealed	4D Rd	7530	8400	18	2029	\$40,167.90	40
22584217	40.8	Unsealed	BARNBROOK RD	10100	10850	18	2029	\$53,597.81	40
22584213	40.4	Unsealed	BARNBROOK RD	5650	7325	18	2029	\$119,701.78	40
22584229	45.1	Unsealed	BASIN CREEK RD	1080	2570	18	2029	\$83,868.38	40
22584230	45.2	Unsealed	BASIN CREEK RD	2570	4410	18	2029	\$103,569.00	40
22584231	45.3	Unsealed	BASIN CREEK RD	4410	5850	18	2029	\$81,054.00	40
22584232	46.1	Unsealed	BOLAH GAP RD	875	1360	18	2029	\$22,392.45	40
22584233	47.1	Unsealed	JOHNS LANE	1580	2260	18	2029	\$38,275.50	40
22584227	44.2	Unsealed	MCCULLOCHS RD	1130	2320	18	2029	\$66,982.13	40
22584228	44.3	Unsealed	MCCULLOCHS RD	2320	3780	18	2029	\$82,179.75	40
22584226	44.1	Unsealed	MCCULLOCHS RD	960	1130	18	2029	\$9,568.88	40
22584207	4.2	Unsealed	ROCKGEDGIEL RD	3250	4550	18	2029	\$92,902.88	40
22584208	4.3	Unsealed	ROCKGEDGIEL RD	4550	5470	18	2029	\$65,746.65	40
22584209	4.4	Unsealed	ROCKGEDGIEL RD	5470	6160	18	2029	\$49,309.99	40
22584218	41.1	Unsealed	STANGERS RD	1250	2100	18	2029	\$47,844.38	40
22584219	41.2	Unsealed	STANGERS RD	2100	2750	18	2029	\$36,586.88	40

22584220	41.3	Unsealed	STANGERS RD	2750	3950	18	2029	\$67,545.00	40
22584221	41.4	Unsealed	STANGERS RD	3950	5500	18	2029	\$87,245.63	40
22584222	41.5	Unsealed	STANGERS RD	5500	6260	18	2029	\$42,778.50	40
22584239	48.6	Unsealed	WILLIEWARINA RD	10290	11450	18	2029	\$82,897.95	40
22584234	48.1	Unsealed	WILLIEWARINA RD	1750	4400	18	2029	\$189,378.94	40
22584235	48.2	Unsealed	WILLIEWARINA RD	4400	4975	18	2029	\$41,091.66	40
22584236	48.3	Unsealed	WILLIEWARINA RD	4975	7100	18	2029	\$151,860.47	40
22584237	48.4	Unsealed	WILLIEWARINA RD	7100	8900	18	2029	\$128,634.75	40
22584238	48.5	Unsealed	WILLIEWARINA RD	8900	10290	18	2029	\$99,334.61	40
Subtotal								\$3,882,250.45	
22584611	227.3	Sealed	BUNDELLA RD	2000	3000	19	2030	\$166,736.88	40
22584603	227.22	Sealed	BUNDELLA RD	21000	22000	19	2030	\$166,736.88	40
22584605	227.24	Sealed	BUNDELLA RD	23000	24000	19	2030	\$166,736.88	40
22584606	227.25	Sealed	BUNDELLA RD	24000	25000	19	2030	\$166,736.88	40
22584608	227.27	Sealed	BUNDELLA RD	26000	27000	19	2030	\$166,736.88	40
22584609	227.28	Sealed	BUNDELLA RD	27000	28000	19	2030	\$166,736.88	40
22584612	227.3	Sealed	BUNDELLA RD	29000	30000	19	2030	\$166,736.88	40
22584614	227.32	Sealed	BUNDELLA RD	31000	32000	19	2030	\$166,736.88	40
22584615	227.33	Sealed	BUNDELLA RD	32000	33000	19	2030	\$166,736.88	40
22584617	227.35	Sealed	BUNDELLA RD	34000	35000	19	2030	\$166,736.88	40
22584618	227.36	Sealed	BUNDELLA RD	35000	36000	19	2030	\$166,736.88	40
22584246	49.7	Unsealed	4D Rd	8400	9710	19	2030	\$60,482.70	40
22584256	500	Unsealed	APPLE TREE RD	0	1330	19	2030	\$74,862.38	40
22584330	63.1	Unsealed	BLACK GULLY RD	1875	2860	19	2030	\$60,426.06	40
22584331	63.2	Unsealed	BLACK GULLY RD	2860	4400	19	2030	\$94,473.23	40
22584332	63.3	Unsealed	BLACK GULLY RD	4400	5965	19	2030	\$96,006.88	40
22584333	63.4	Unsealed	BLACK GULLY RD	5965	7800	19	2030	\$112,570.37	40
22584334	63.5	Unsealed	BLACK GULLY RD	7800	8850	19	2030	\$64,413.56	40
22584335	63.6	Unsealed	BLACK GULLY RD	8850	9750	19	2030	\$55,211.63	40
22584276	53.2	Unsealed	BONNYRIG RD	2475	3550	19	2030	\$87,699.84	40
22584277	53.3	Unsealed	BONNYRIG RD	3550	4730	19	2030	\$96,265.88	40
22584278	53.4	Unsealed	BONNYRIG RD	4730	5930	19	2030	\$97,897.50	40
22584275	53.1	Unsealed	BONNYRIG RD	730	2475	19	2030	\$142,359.28	40
22584252	50.2	Unsealed	CARINYA RD	2700	3300	19	2030	\$61,696.80	40
22584253	50.3	Unsealed	CARINYA RD	3300	4160	19	2030	\$88,432.08	40
22584254	50.4	Unsealed	CARINYA RD	4160	5540	19	2030	\$141,902.64	40
22584255	50.5	Unsealed	CARINYA RD	5540	6600	19	2030	\$108,997.68	40
22584266	51.5	Unsealed	COLLY PLAINS RD	5475	6140	19	2030	\$40,795.26	40
22584285	54.6	Unsealed	DIMBY LANE	7810	10500	19	2030	\$230,339.99	40
22584259	503	Unsealed	DOWNTON STREET	0	525	19	2030	\$29,550.94	40
22584286	55.1	Unsealed	HAMILTON'S RD	1200	2320	19	2030	\$91,371.00	40
22584287	55.2	Unsealed	HAMILTON'S RD	2320	4100	19	2030	\$145,214.63	40
22584288	55.3	Unsealed	HAMILTON'S RD	4100	5290	19	2030	\$97,081.69	40
22584289	55.4	Unsealed	HAMILTON'S RD	5290	6000	19	2030	\$57,922.69	40
22584290	55.5	Unsealed	HAMILTON'S RD	6000	7000	19	2030	\$81,581.25	40
22584291	55.6	Unsealed	HAMILTON'S RD	7000	7890	19	2030	\$72,607.31	40
22584292	560	Unsealed	HIGH STREET	0	750	19	2030	\$49,803.75	40
22584293	560.1	Unsealed	HIGH STREET	750	1000	19	2030	\$16,601.25	40
22584260	505	Unsealed	LOCO STREET NORTH	0	145	19	2030	\$8,161.69	40
22584261	506	Unsealed	LOCO STREET SOUTH	0	175	19	2030	\$9,850.31	40
22584300	59.1	Unsealed	MERRILONG RD	1000	2070	19	2030	\$92,704.80	40
22584301	59.2	Unsealed	MERRILONG RD	2070	3650	19	2030	\$136,891.20	40
22584302	59.3	Unsealed	MERRILONG RD	3650	4200	19	2030	\$47,652.00	40
22584294	57.1	Unsealed	NICHOLSONS LAGOON RD	1110	2060	19	2030	\$53,473.13	40
22584295	57.2	Unsealed	NICHOLSONS LAGOON RD	2060	2980	19	2030	\$51,784.50	40
22584314	6.8	Unsealed	PANDORA'S PASS RD	10100	11300	19	2030	\$67,545.00	40
22584315	6.9	Unsealed	PANDORA'S PASS RD	11300	11950	19	2030	\$36,586.88	40
22584304	6.1	Unsealed	PANDORA'S PASS RD	11950	13300	19	2030	\$75,988.13	40

22584303	6.1	Unsealed	PANDORA'S PASS RD	1300	3000	19	2030	\$95,688.75	40
22584305	6.11	Unsealed	PANDORA'S PASS RD	13300	14750	19	2030	\$81,616.88	40
22584306	6.12	Unsealed	PANDORA'S PASS RD	14750	15300	19	2030	\$30,958.13	40
22584307	6.13	Unsealed	PANDORA'S PASS RD	15300	16200	19	2030	\$50,658.75	40
22584308	6.2	Unsealed	PANDORA'S PASS RD	3000	4200	19	2030	\$67,545.00	40
22584309	6.3	Unsealed	PANDORA'S PASS RD	4200	5700	19	2030	\$84,431.25	40
22584310	6.4	Unsealed	PANDORA'S PASS RD	5700	6650	19	2030	\$53,473.13	40
22584318	60.3	Unsealed	PAYNES RD	2810	4270	19	2030	\$96,951.30	40
22584319	60.4	Unsealed	PAYNES RD	4270	5050	19	2030	\$51,795.90	40
22584349	66.1	Unsealed	WANDOBAB RD	1080	1935	19	2030	\$52,451.04	40
22584351	66.11	Unsealed	WANDOBAB RD	13250	14350	19	2030	\$67,480.88	40
22584353	66.2	Unsealed	WANDOBAB RD	1935	3260	19	2030	\$81,283.78	40
22584354	66.3	Unsealed	WANDOBAB RD	3260	4130	19	2030	\$53,371.24	40
22584355	66.4	Unsealed	WANDOBAB RD	4130	6175	19	2030	\$125,453.08	40
22584356	66.5	Unsealed	WANDOBAB RD	6175	7150	19	2030	\$59,812.59	40
22584357	66.6	Unsealed	WANDOBAB RD	7150	8060	19	2030	\$55,825.09	40
22584247	5.1	Unsealed	WARRAH RIDGE RD	1500	2675	19	2030	\$89,913.94	40
22584248	5.2	Unsealed	WARRAH RIDGE RD	2675	4050	19	2030	\$105,218.44	40
22584249	5.3	Unsealed	WARRAH RIDGE RD	4050	5685	19	2030	\$125,114.29	40
22584250	5.4	Unsealed	WARRAH RIDGE RD	5685	6500	19	2030	\$62,365.84	40
22584321	601	Unsealed	WEST STREET NORTH	0	250	19	2030	\$15,336.56	40
22584320	600	Unsealed	WEST STREET SOUTH	0	680	19	2030	\$41,715.45	40
Subtotal								\$6,319,772.78	
Program Total								\$49,913,142.37	