Narrandera Shire Council



Sewerage Systems

Asset Management Plan





Version 1.02

June 2012

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Asset Management for Small, Rural or Remote Communities Practice Note

The Institute of Public Works Engineering Australia.

www.ipwea.org.au/AM4SRRC

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1. EXECUTIVE SUMMARY

Context

Narrandera Shire Council has a population of over 6,260 people. The shire is part of the state electorate of Murrumbidgee and the Federal electorate of Riverina.

The Shire covers an area of 4,116km2, and is bordered to the west by the local government areas of Murrumbidgee, Leeton, Griffith, to the north by Carrathool and Bland, to the east by Coolamon and Wagga Wagga and to the south by Lockhart and Urana.

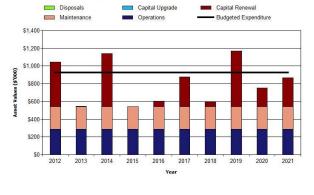
The Australian Bureau of Statistic's annual Estimated Residential Population for Local Government Areas reported that Narrandera Shire recorded a growth rate of 0% and that over the previous five years had recorded an average annual growth rate of -0.1%.

Sewerage Systems

These infrastructure assets have a replacement value of \$11.3M.

What does it Cost?

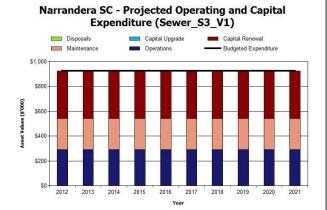
The projected cost to provide the services covered by this Asset Management Plan includes operations, maintenance, renewal and upgrade of existing assets over the 10 year planning period. Scenario 1 shown below is based on the asset register and indicates that the future costs (vertical bars) are generally exceeded by the future long term financial plan funding (horizontal black line); this indicates that under funding scenario 1 the renewal program is being overfunded. This is likely due to limitations with the accuracy of the existing asset register data, further improvements will be required to obtain a realistic funding scenario.



Narrandera SC - Projected Operating and Capital Expenditure (Sewer_S1_V1)

Scenario 3 below shows how council will balance funds available in the long term financial plan with the

expenditure projections in the asset management plan. This has been used for both scenario 2 and 3 at this stage and is demonstrative of a sustainable funding scenario that has not yet been developed or adopted by Council.



Councils' present funding levels will be sufficient in the long term based on current information. The current level of expenditure is equivalent to 109.50% of the long term average funds required using the ratio of depreciation based on the asset register and average renewal spend for the next 10 years of the long term average requirements.

Projected and budgeted expenditure are shown in the table 18.S1 and 20.

What we will do

Council plans to provide sewerage system services for the following:

- Operation, maintenance, renewal and upgrade of sewerage systems to meet service levels set by council in annual budgets.
- Improve the underlying information with an annual review of service level trends.

What we cannot do

Council does not have enough funding to provide new services.

Managing the Risks

There are risks associated with providing the service and not being able to complete all identified activities and projects. We have identified major risks as:

- Inconsistent data. The condition profile (section 5.1.3 shows that a significant proportion (39% of sewer assets are in poor or very poor condition), however the renewal projections from the asset register show that no major renewal expenditure is needed in the next 10 years.
- Rising costs of managing infrastructure
- Meeting Community expectations for services

- Providing the most appropriate and affordable infrastructure for the community
- Controlling the deterioration of the sewerage system assets due to lack of renewal funding.

We will endeavour to manage these risks within available funding by:

- Improving the quality of the asset register and in particular the 10 year forward projections for asset renewal.
- Manage the existing infrastructure
- Manage the expansion of sewerage system infrastructure based on the priorities established in the Community Plan
- Expand infrastructure in a financially responsible manner and as funded in Council's Long Term Financial Plan.
- Seek additional funding in the form of grants wherever possible.
- Annual review and update of service level and risk projections as data improves. This review will inform the annual budget process.

The Next Steps

The actions resulting from this asset management plan are:

- Continue to improve asset information and knowledge.
- Develop a single corporate asset register for financial and reporting purposes
- Monitor the provision of sewerage system infrastructure alongside the community expectations for community facilities.

Questions you may have

What is this plan about?

This asset management plan covers the infrastructure assets that serve the Narrandera Community's sewerage system needs. These assets include reticulation, pump stations and treatment plants throughout the Council area that safely and effectively disposes and treats wastewater throughout the area for the community.

What is an Asset Management Plan?

Asset management planning is a comprehensive process to ensure delivery of services from infrastructure is provided in a financially sustainable manner.

An asset management plan details information about infrastructure assets including actions required to provide an agreed level of service in the most cost effective manner. The Plan defines the services to be provided, how the services are provided and what funds are required to provide the services.

Is there a funding shortfall?

Councils' present funding levels are sufficient to continue to provide existing services at current levels in the medium term, current funding levels indicate that renewals are being over funded; this is likely due to limitations within the asset register. This position will need to be re-examined and an accurate funding scenario developed.

Future Improvements

Future improvement involves several steps:

- Improving asset knowledge so that data accurately records the asset inventory, how assets are performing and when assets are not able to provide the required service levels,
- Improving our efficiency in operating, maintaining, replacing existing and constructing new assets to optimise life cycle costs,
- 3. Identifying and managing risks associated with providing services from infrastructure,
- Making trade-offs between service levels and costs to ensure that the community receives the best return from infrastructure,
- Identifying assets surplus to needs for disposal to make saving in future operations and maintenance costs
- Consulting with the community to ensure that transport services and costs meet community needs and are affordable,
- 7. Developing partnership with other bodies, where available to provide services;
- Seeking additional funding from governments and other bodies to better reflect a 'whole of government' funding approach to infrastructure services.

What can we do?

Council can develop options and priorities for future sewerage system infrastructure with costs of providing the services, consult with the community to plan future services to match the community services needs with ability to pay for services and maximise benefit to the community for costs to the community.

What can you do?

Council will be pleased to consider your thoughts on the issues raised in this asset management plan and suggestions on how Council may change or reduce its transport services mix to ensure that the appropriate level of service can be provided to the community within available funding.

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 needed to provide the required levels of service.

The asset management plan is to be read with Council's Asset Management Policy, Asset Management Strategy and the following associated planning documents:

- Narrandera Shire Council Adopted Asset Management Plan 2011-2016
- Narrandera Shire Council Annual Report 2010/11

This infrastructure assets covered by this asset management plan are shown in Table 1.

Table 1: Assets covered by this Plan

Source: Technical Asset Register Note: The technical asset register is the latest updated register and includes changes and updates since 30 June 2011. The technical and financial asset register in table 2 are reconciled at the time of revaluation, however Council may choose to reconcile annually in future.

Asset Sub-Category	Asset Replacement Cost (*Calculated from asset register)	Depreciated Replacement Cost *	Annual Depreciation *
Sewerage Systems	\$11,293,158	\$5,805,148	\$301,159
TOTAL	\$11,293,158	\$5,805,148	\$301,159

Table 2: Asset Values Reported in the Financial Statements

Source: Note 9a General Purpose Financial Statements 30 June 2011

Note 9a Category - 30 June 2011	Replacement Cost (\$000)	Depreciated Replacement Cost (\$000)	Depreciation Expense for current year (\$000)
Sewer	\$11,293	\$5,805	\$300
TOTAL	\$11,293	\$5 <i>,</i> 805	\$300

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.¹

The goal of this asset management plan is to:

- Document the services/service levels to be provided and the costs of providing the service,
- Communicate the consequences for service levels and risk, where desired funding is not available, and
- Provide information to assist decision makers in trading off service levels, costs and risks to provide services in a financially sustainable manner.

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

Council's vision is:

"Achieving Together"

Council's mission is:

"To provide high quality affordable local government services and representation for people who live, work, and visit Narrandera Shire, and to assist also, those who have a stake in our local and regional prosperity; by way of effective consultation, policy making and responsive delivery that meets the needs of our community."

Relevant goals and objectives and how these are addressed in this asset management plan are shown in Table 3.

Table 3: Organisation Goals and how these are addressed in this Plan

Goal	Objective	How Goal and Objectives are addressed in AMP			
PF 1 – Corporate Support and Governance					
Goal 4 - Decisive leadership, strong partnerships and the effective and efficient management of resources	 4.1.1: Maximise the benefits of information technology in improving communication, process efficiency and promote Council and community activities through the website, Council Newsletter and other media. 4.2.1: Develop and review Council Business Plans linked to the Strategic Plan and the financial capacity of Council. 4.2.2: Develop and implement a long-term Financial Plan that reflects Council/community directions 4.3.1: Utilise appropriate mechanisms to regularly review community needs 4.4.1: Examine opportunities and support for partnerships with neighbouring and regional Councils, and government agencies to address priority issues 4.5.1: Identify needs and provide appropriate training 	The Asset Management Plan in conjunction with Long Term Financial Plan and the Community Plan are the tools by which Council assesses the long term financial sustainability of council's infrastructure assets. Planning long term sustainable infrastructure is important to enable the appropriate resources to be identified and provided. Planning long term sustainable infrastructure is important to enable Council to meet its statutory Council governance. Infrastructure is provided to support services. Getting the correct infrastructure appropriate to the needs of the community is a primary goal of Asset Management Planning. Council has limited resources. The Asset Management Planning provides a way in which the community can be engaged in setting the priorities and allocation of these resources. Risk associated with Council infrastructure is identified within the Asset Management Plan. Risk assessment is one of the tools by which Council assesses the long term sustainability of council's infrastructure assets.			
	and development for staff	•			

¹ IPWEA, 2006, *IIMM* Sec 1.1.3, p 1.3.

Goal	Objective	How Goal and Objectives are addressed in AMP
	 4.5.2: Ensure safe work practices through the implementation of the Occupational, Health and Safety Policy and Risk Management Strategy 4.6.1: Review and amend governance structures, policies and decision making processes on a regular basis 	
PF 7 - Sewerage Service	S	
Goal 3 - Protected and enhanced and appropriate built environs 3.2.3: Develop an infrastructure plan to upgrade and maintain the sewerage collection network, including investigation of waste water reuse opportunities 3.2.4: Implement Practice Sewer Pricing 3.2.5: Investigate and implement liquid trade waste agreements and billing.		The AMP sets out principles for managing and operating the sewerage system infrastructure to meet these objectives.

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 the organisation 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 the organisation's objectives.
- Asset management improvement plan

2.4 Core and Advanced Asset Management

This asset management plan is prepared as a first cut 'core' asset management plan in accordance with the International Infrastructure Management Manual². 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.

2.5 Community Consultation

This 'core' asset management plan is prepared to facilitate community consultation initially through feedback on public display of draft asset management plans prior to adoption by Council. Future revisions of the asset management plan will incorporate community consultation on service levels and costs of providing the service. This will assist Council and the community in matching the level of service needed by the community, service risks and consequences with the community's ability to pay for the service.

² IPWEA, 2006.

3. LEVELS OF SERVICE

3.1 Customer Research and Expectations

Council has not carried out any research on customer expectations. This will be investigated for future updates of the asset management plan.

3.2 Legislative Requirements

Council has to meet many legislative requirements including Australian and State legislation and State regulations. Relevant legislation is shown in Table 4.

Legislation	Requirement
Local Government Act 1993 Local Government Amendment (Planning and Reporting) Act 2009 (the Act).	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. The amendments to the Act give effect to the Integrated Planning and Reporting framework.
Environmental Planning and Assessment Act 1979 & Environmental Planning and Assessment Amendment Act 2008	 Requirements for Local Environmental Plans and Development Control Plans; Provides for Council control of development of towns and approval of infrastructure expansion.
Catchment Management Authorities Act 2003	 Requirement for ongoing management plan; Promotes the coordination of activities with catchment areas; Under the provision of this Act, Local Catchment Management Authorities oversee this process in the region.
Soil Conservation Act 1938	Preservation of water course environment.
Public Health Act 1938	 Protection of public health from handling and treatment of waste water including effluent reuse.
Public Works Act 1912	 Provides authority for the Department of Water and Energy to construct sewerage works within the Council's area and regulates activities concerning the acquisition of land for sewerage works.
Water Act 1912 & Water Management Act 2000 & Water Management Amendment Act 2008	 Water rights, licenses, allocations and determination of developer charges.
Occupational Health and Safety Act 2000	 Impacts all operations in relation to safety of workers and the public; Council's responsibility to ensure health, safety and welfare of employees and others at places of work.
Protection of the Environment Operations Act 1997	 Need to control wastewater and stormwater disposal. Control of run-off or escape of contaminants entering water courses. Regulating pollution activities and issue of licenses as well as the monitoring of and reporting on waste output.

Table 4: Legislative Requirements

Legislation	Requirement	
	 This act includes "Due Diligence" requirements and disposal procedures for chemicals and sludge and details penalties for causing environmental impacts. 	

3.3 Current Levels of Service

Council has defined service levels in two terms.

Community Levels of Service relate to the service outcomes that the community wants in terms of safety, quality, quantity, reliability, responsiveness, cost effectiveness and legislative compliance.

Community levels of service measures used in the asset management plan are:

Quality	How good is the service?
Function	Does it meet users' needs?
Safety	Is the service safe?

Technical Levels of Service - Supporting the community service levels are operational or technical measures of performance. These technical measures relate to the allocation of resources to service activities that the council undertakes to best achieve the desired community outcomes.

Technical service measures are linked to annual budgets covering:

- Operations the regular activities to provide services such as opening hours, cleansing frequency, mowing frequency, etc.
- Maintenance the activities necessary to retain an assets as near as practicable to its original condition (eg road patching, unsealed road grading, building and structure repairs),
- Renewal the activities that return the service capability of an asset up to that which it had originally (eg frequency and cost of road resurfacing and pavement reconstruction, pipeline replacement and building component replacement),
- Upgrade the activities to provide an higher level of service (eg widening a road, sealing an unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously (eg a new library).

Council's current service levels are detailed in Table 5.

Key Performance Measure	Level of Service Objective	Performance Measure Process	Desired Level of Service	Current Level of Service
COMMUNITY L	EVELS OF SERVICE			
Quality	No odours	Customer complaints	Ора	To Be Identified
	Provide an effective method of collection and disposal of wastewater	Customer Complaints Reuse of treated effluent	<10pa 100% of effluent reused	To Be Identified
Condition	Structural condition fit for purpose	% of network that has poor or very poor condition	No assets in poor/ very poor as per technical service level	To Be Identified
Function	No backup of sewage into properties	Customer Complaints	<10pa	To Be Identified

Table 5: Current Service Levels

Key Performance Measure	Level of Service Objective	Performance Measure Process	Desired Level of Service	Current Level of Service
	No overflows of sewage into public places/waterways	Incidents	Ора	To Be Identified
Capacity	Provide adequate population capacity	% of Network with adequate capacity for the next • >20 years (good / V good) • 10 years (Fair) • <10 years (poor / V Poor)	Retain Current	To Be Identified
Safety	Low level of risk to health in the disposal and reuse of treated wastewater	Incidents of substandard water being discharged/reused	Ора	To Be Identified
TECHNICAL LEV	ELS OF SERVICE			1
Function	Availability of sewerage reticulation in designated areas	% of lots serviced	100%	To Be Identified
	Provide an effective method of collection and disposal of wastewater	Failures due to rainfall and deficient capacity	Ора	To Be Identified
Condition	Provide an appropriate level of operation and maintenance	Breakdowns Main blockage/collapse Age of system Maintenance to be routine	<2pa <5pa <5% assets>95% UL Maintenance work value ratio 70%/30%	To Be Identified
System Availability	Response time incidents	Moderate/Major Spill Minor Spill/Blockage	45min 12hrs	To Be Identified
Condition	Structural Condition as per IIMM	 % Condition 5 by asset value % Condition 4 % Condition 3 % Condition 2 % Condition 1 	No high risk assets at condition 4 or 5 No Moderate risk assets and condition 5	To Be Identified
Cost Effectiveness	Provide sewerage service at reasonable cost	Maintenance Cost	≤Previous Year + CPI	To Be Identified
Safety	Provide sewerage service with minimal hazards and risks	Reported accidents/incidents/n ear misses	Ора	To Be Identified
Quality	Provide effluent at a quality that satisfies all approval conditions for reuse	Water quality parameters	0 incidents of failure to meet parameters	To Be Identified

Key Performance Measure	Level of Service Objective	Performance Measure Process	Desired Level of Service	Current Level of Service
Operations	Comply with health requirements	Monitoring and reporting program Regular inspection of key components	Meets all health requirements Inspections being undertaken	To Be Identified
Operations Cos	t		Funded in LTFP	\$290,000 pa over the course of the planning period
Maintenance	Remove hazards Provide Maintenance	Respond to complaints Repairs undertaken	Reactive maintenance to limit of budget allocation. Repairs identified from inspections are scheduled and carried out	To Be Identified
Maintenance C	ost		Funded in LTFP	\$252,000 pa over the course of the planning period
Renewal	Replacement of active assets, pipe networks and treatment facilities.	Frequency Identified renewal works can be completed	The works program and long term financial plan have been developed to deliver a satisfactory service standard. Identified capital works have been included in the long term financial plan Verification and improvement of the useful lives used for valuation purposes, matching these actual services standards will assist to improve financial reporting and planning	To Be Identified
Renewal Cost			Funded in LTFP	\$381,000 over the course of the planning period
Upgrade/Ne w	Provide services in a cost effective manner	Cost, Corporate Strategy	Achieved by a combination of council and grant	To Be Identified

Key Performance Measure	Level of Service Objective	Performance Measure Process	Desired Level of Service	Current Level of Service
			funded works	
Upgrade/New (Cost		Funded in LTFP	\$0 over the course of the planning period (Council does not propose to provide any upgrade/new assets within the next 10 years)

3.4 Desired Levels of Service

At present, indications of desired levels of service are obtained from various sources including 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 6.

Demand factor	Present position	Projection	Impact on services
Population	6256 (2009)	6132 (2029) ³	Increased Assets and demand on existing assets will have a follow on impact on maintenance and renewal costs.
Construction Costs	Current costs	Costs anticipated to increase	The shortage of skilled labour, high labour costs and increasing material costs, will impact on the future management of sewer infrastructure
Increasing Costs	The cost to construct, maintain and replace sewer assets is increasing	Anticipated to continue	Increasingly difficult to maintaining the current level of service. Equipment will need to provide greater efficiencies
Climate Change	Higher frequency of extreme weather events	Unknown, but changes likely.	Addition costs may be imposed to fund environmental initiatives e.g. carbon tax Expectation of plant capacity to repair major damage to sewer infrastructure will increase

Table 6: Demand Factors, Projections and Impact on Services

³ Projection based on -0.1% average annual growth rate provided by the Australian Bureau of Statistic's annual Estimated Residential Population for Local Government Areas

Technology changes forecast to affect the delivery of services covered by this plan are detailed in Table 7.

Technology Change	Effect on Service Delivery		
Trenchless pipeline techniques	Reduce the cost of pipeline maintenance and renewal. Reduce the impact of works on the community and environment		

Table 7: Changes in Technology and Forecast effect on Service Delivery

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.

Non-asset solutions focus on providing the required service without the need for the council to own the assets. Examples of non-asset solutions include providing services from existing infrastructure such as aquatic centres and libraries that may be in another council area or public toilets provided in commercial premises.

Opportunities identified to date for demand management are shown in Table 8. Further opportunities will be developed in future revisions of this asset management plan.

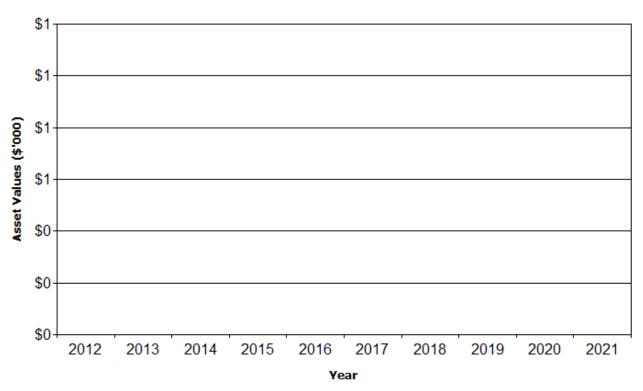
Service Activity	Demand Management Plan
Communicate options and capacity to the provision of sewerage systems with the community	Monitor community expectations and communicate service levels and financial capacity with the community to balance priorities for infrastructure with what the community is prepared to pay for
Funding priority works	Continue to seek grant funding for projects identified in the Community Plan and Asset Management Plans
Improve understanding of costs and capacity to maintain current service levels	Continue to analyse the cost of providing service and the capacity to fund at the current level of service

Table 8: Demand Management Plan Summary

4.4 New Assets for Growth

The new assets required to meet growth will be acquired free of cost from land developments and constructed/acquired by Council. The cumulative value of Council's new contributed and constructed asset values are summarised in Figure 1.

Narrandera SC - New Assets for Growth (Sewer_S1_V1)



Donated Constructed Assets

The additional new assets being created are being constructed by Council. There are no assets being generated by development and being donated to Council.

Council does not propose to provide any additional assets in each year of the ten year planning period. (Detailed in Appendix C).

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 operations 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.

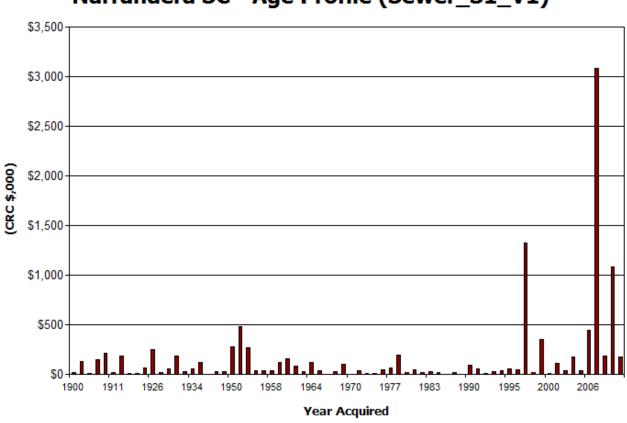
5.1 Background Data

5.1.1 Physical parameters

The assets covered by this asset management plan are shown in Table 1.

The age profile of the assets include in this AM Plan is shown in Figure 2.





Narrandera SC - Age Profile (Sewer_S1_V1)

The information basis for the sewerage system assets are:

- Financial Valuations
- Technical Inventory
- Maintenance and Renewal Plans

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 9.

Table 9: Known Service Performance Deficiencies

Location	Service Deficiency
•	In the development of next asset management plans, and in particular as these plans are developed and integrated along with the Long Term Financial Plans and Community Plans service deficiencies will be identified

5.1.3 Asset condition

The condition profile of sewerage system infrastructure assets included within this AM Plan is shown in Figure 3.

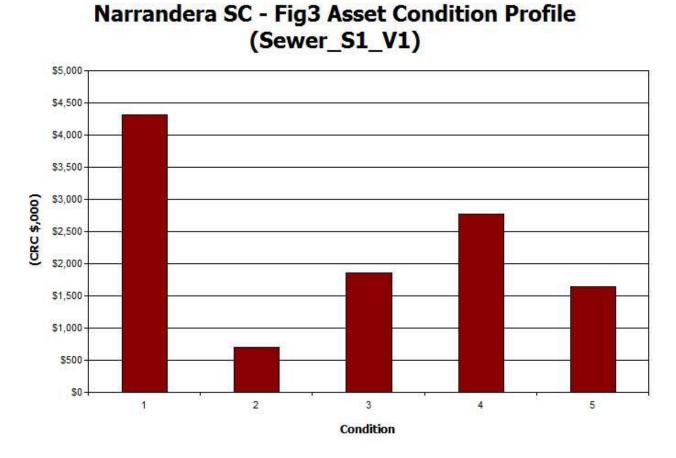
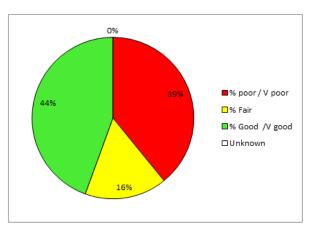
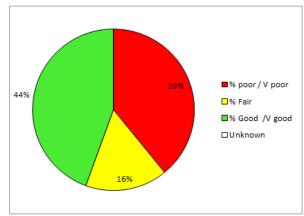


Figure 4: Target Asset Condition Profile (scenario 2)



Sewerage System Current Function

Target Function - 10 Years (Example Only, Same as Current Condition)



Condition is measured using a 1-5 rating system⁴ as detailed in Table 10.

⁴ IIMM 2006, Appendix B, p B:1-3 ('cyclic' modified to 'planned', 'average' changed to 'fair'')

Condition Rating	Description
1	Excellent condition: Only planned maintenance required.
2	Very good: Minor maintenance required plus planned maintenance.
3	Good: Significant maintenance required.

Table 10: IIMM Description of Condition

5.1.4 Asset valuations

4

5

The value of assets recorded in Council's asset register for the year ending 30 June 2011 covered by this asset management plan is shown below. Assets were last revalued at 30 June 2011.

Fair: Significant renewal/upgrade required.

Current Replacement Cost	\$11,293,158
Depreciable Amount	\$11,293,158
Depreciated Replacement Cost	\$5,805,148
Annual Depreciation Expense	\$301,159

Poor: Unserviceable.

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

Asset Consumption Ratio ⁵	0.51 or 51%
Asset Sustainability Ratio ⁶	1.27 or 127%
Asset Renewal Funding Ratio ⁷	1.40 or 140%

To provide services in a financially sustainable manner, Council will need to ensure that it is renewing assets at the rate they are being consumed over the medium-long term and funding the life cycle costs for all new assets and services in its long term financial plan.

5.1.5 Asset hierarchy

An asset hierarchy provides a framework for structuring data in an information system to assist in collection of data, reporting information and making decisions. The hierarchy includes the asset class and component used for asset planning and financial reporting and service level hierarchy used for service planning and delivery.

Council's service hierarchy is shown is Table 11.

Service Hierarchy	Service Level Objective	
Sewer Reticulation	Distribute wastewater for disposal and treatment.	
Pump Stations	Distribute sewage and maintains pressure.	
Wastewater Treatment Plants	Treatment of wastewater for reuse.	

⁵ Depreciated Replacement Cost / Current Replacement Cost AIFMG, Section 2.6.1, p 2.10

⁶ Renewal or Replacement Expenditure / Depreciation AIFMG, Section 2.6.1, p 2.10

⁷ 10 Year Renewal Expenditure / 10 Year Renewal Requirement in AMP (Scenario 2) AIFMG, Section 2.6.1, p 2.10

5.2 Risk Management Plan

An assessment of risks associated with service delivery from infrastructure assets has identified critical risks that will result in loss or reduction in service from infrastructure assets or a 'financial shock' to the organisation. The risk assessment process identifies credible risks, the likelihood of the risk event occurring, 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 are summarised in Table 12.

Service or Asset at Risk	What can Happen	Risk Rating (VH, H)	Risk Treatment Plan	Associated Costs
Sewer Network Maintenance	Increasing maintenance requirements	High	Continue to improve data Documented service level risks and utilisation for establishing future maintenance priorities	Staff Time
Sewer Network Renewal	Assets deteriorate to a lesser service standard and higher risk situation	High	Continue to improve data Future planning improvements can be made by further documented service level risks and utilisation of these in establishing future renewal priorities	Staff Time
Damage to Sewer Supply Assets	Damage to water and sewer networks as a result of major storm events	Very High	At present cannot be managed within councils resourcing. Continue to improve data	Staff Time
Sewerage System	Deterioration of network	High	Improve knowledge of remaining life or condition of network	Ongoing Staff Time
Sewer Pump Stations	Environmental Damage and compliance issues	High	 Continue to improve data by carrying out sample inspections Required renewal of sewerage system components is being achieved in the short to medium term. Future planning improvements can be made by further documented service level risks and utilisation of these in establishing future renewal priorities. 	Ongoing staff time Funding for renewals included in the Capital Works Program and Long Term Financial Plan

Table 12: Critical Risks and Treatment Plans

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 specific 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.

Specific 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 but may require a specific budget allocation.

Proposed maintenance expenditure is shown in Table 13.

Table 13: Maintenance Expenditure Trends

Year	Maintenance Expenditure (2012 dollar values)	
Proposed 2012	\$252,000	
Proposed 2013	\$252,000	
Proposed 2014	\$252,000	

Current maintenance expenditure levels are considered to be adequate to meet required service levels in the absence of more detailed information. 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 operational staff using experience and judgement.

5.3.2 Standards and specifications

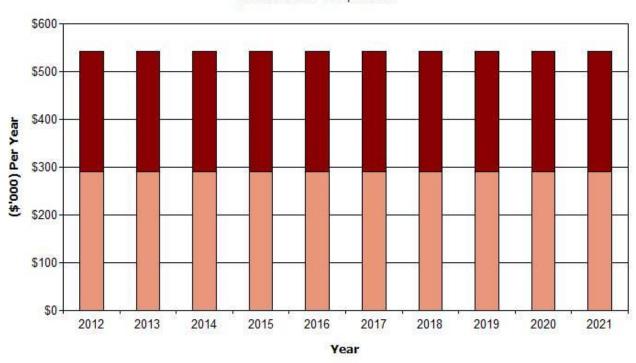
Maintenance work is carried out in accordance with the following Standards and Specifications.

- Council standards and specifications
- Relevant standards and specifications for water treatment standards, health requirements, water quality standards, AS 3500 Plumbing and Drainage
- Relevant engineering standards

5.3.3 Summary of future operations and maintenance expenditures

Future operations and maintenance expenditure is forecast to trend in line with the value of the asset stock as shown in Figure 5. Note that all costs are shown in 2012 dollar values.

Narrandera SC - Projected Operations and Maintenance Expenditure (Sewer_S1_V1)



Maintenance Operations

Deferred maintenance, i.e. 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 the 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 one of three methods provided in the 'Expenditure Template".

- Method 1 uses Asset Register data to project the renewal costs for renewal years using acquisition year and useful life, or
- Method 2 uses capital renewal expenditure projections from external condition modelling systems (such as Pavement Management Systems), or
- Method 3 uses a combination of average *network renewals* plus *defect repairs* in the *Renewal Plan* and *Defect Repair Plan* worksheets on the 'Expenditure template'.

Method 1 was used for this asset management plan. It is common that the valuation registers used in Scenario 1 are not developed to a level of maturity where they are reliable for producing a realistic renewal forecast. Ideally when this asset register is sorted by remaining life from 1 to 10 years this should be consistent with the capital renewal program. For Narrandera Shire the refinement of the asset register to achieve this situation should become an important part of the asset management improvement plan.

The ranking criteria used to determine priority of identified renewal proposals is detailed in Table 14.

Table 14: Renewal Priority Ranking Criteria

Criteria	Weighting
Structural Integrity	30%
Function	30%
Safety	30%
Service	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.

- Council standards and specifications
- Relevant standards and specifications for water treatment standards, health requirements, water quality standards, AS 3500 Plumbing and Drainage
- Relevant engineering standards

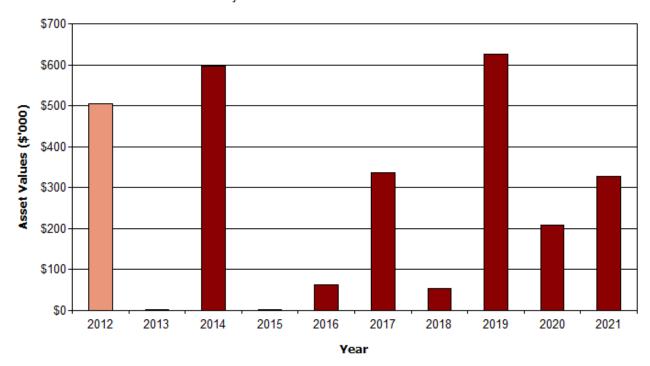
5.4.3 Summary of projected renewal expenditure

Projected future renewal expenditures are forecast to increase over time as the asset stock ages. The costs are summarised in Figure 6. Note that all costs are shown in 2012 dollar values.

The projected capital renewal program is shown in Appendix B.

Figure 6: Projected Capital Renewal Expenditure (Scenario 1 - from Asset Register)

Narrandera SC - Projected Capital Renewal Expenditure (Sewer_S1_V1)

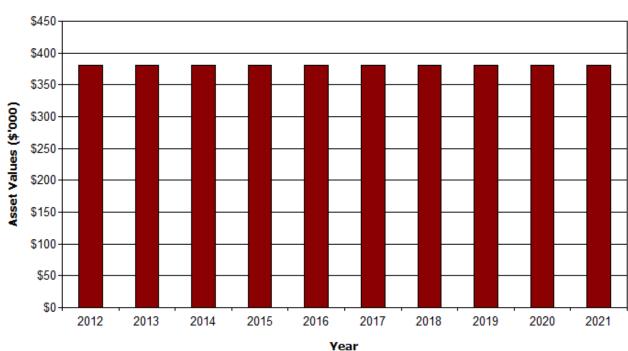


Projected Renewals Unfunded Renewals

The renewal projection (forecast) in Scenario 1 (Using the asset/valuation register) shows significant unfunded renewal expenditure needed in year 1 of the planning period. Whilst the long term averages and total values from this register are sound, the shorter term renewal forecast may need review.. This indicates that further refinement of the asset register is required before it is valuable as a capital renewal planning tool. Scenario 2 and 3 shown below provides balanced scenario based on the 10 year LTFP budget figures. At this stage no individual renewal items have been identified and further development will be required in order to introduce a renewal program as a funding scenario for use in the asset management plan (Details shown in appendix B2).

Figure 7: Projected Capital Renewal Expenditure (Scenario 2 and 3 – Balanced to LTFP – Prioritised Renewal Program (Individual renewal items not separately identified)

Narrandera SC - Projected Capital Renewal Expenditure (Sewer_S3_V1)



Projected Renewals Unfunded Renewals

Scenario 2 and 3 are balanced to the LTFP budget figures for the 10 year period. This is an ideal prioritised funding scenario required for the sustainability of the asset category for the medium term. Under current funding scenario 1 from the asset register the current levels of service cannot be maintained. Further development of the actual planned renewal program will be required to reach the sustainable position demonstrated in scenarios 2 and 3.

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 capital works programs 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 estimate. Verified proposals are ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is detailed in Table 15.

Tuble 15. Opyrude/New Assets Priority Ruiking Citteriu			
Criteria	Weighting		
Inadequate capacity	50%		
Increased re-use quantities	30%		
Improved amenity	20%		
Total	100%		

Table 15: Upgrade/New Assets Priority Ranking Criteria

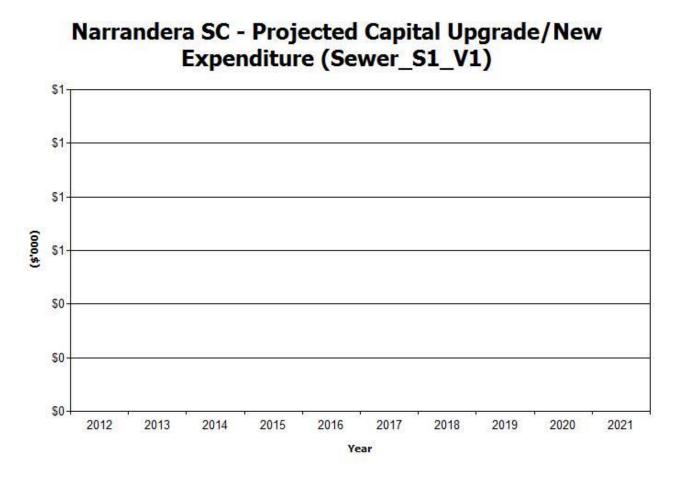
5.5.2 Standards and specifications

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 projected upgrade/new assets expenditure

Projected upgrade/new asset expenditures are summarised in Figure 8. The projected upgrade/new capital works program is shown in Appendix C. All costs are shown in current 2012 dollar values.

Figure 8: Projected Capital Upgrade/New Asset Expenditure



New assets and services are to be funded from 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 16, together with estimated annual savings from not having to fund operations and maintenance of the assets. 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.

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

Asset	Reason for Disposal	Timing	Net Disposal Expenditure (Expend +ve, Revenue –ve)	Operations & Maintenance Annual Savings
No assets identified for disposal in this asset management plan				

Table 16: Assets identified for Disposal

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 Figure 9 for projected operating (operations and maintenance) and capital expenditure (renewal and upgrade/expansion/new assets), net disposal expenditure and estimated budget funding.

Note that all costs are shown in 2012 dollar values.

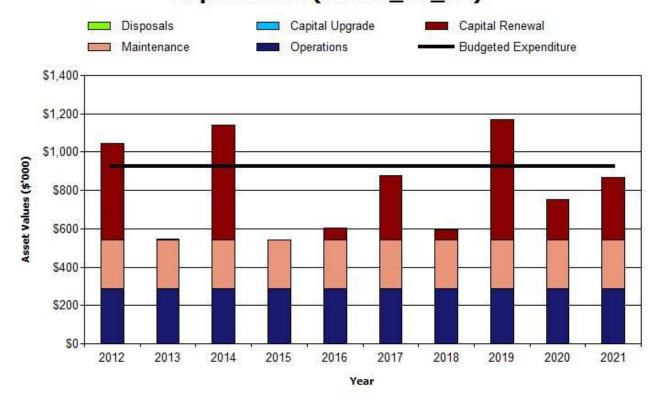
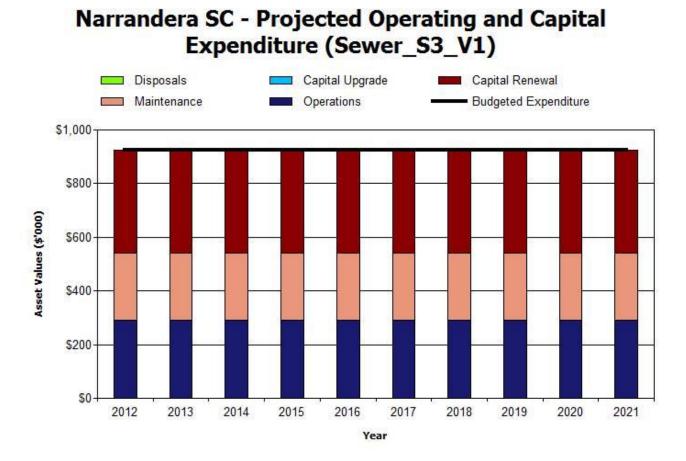
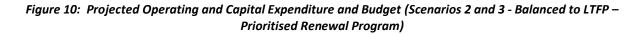


Figure 9: Projected Operating and Capital Expenditure and Budget (Scenario 1 - from Asset Register)

Narrandera SC - Projected Operating and Capital Expenditure (Sewer_S1_V1)

As discussed in Section 5.3 the expenditure projection (forecast) in Scenario 1 (Using the asset/valuation register) is not consistent with the required works program or the long term financial plan, and is indicative of the continuing work required to improve the asset register.





6.1.1 Financial sustainability in service delivery

There are three 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/expenditures and medium term projected/budgeted expenditures over 5 and 10 years of the planning period.

Table 17: Sustainability Indicators Summary				
	Sewer	Sewer	Sewer	
	\$1V1	S2V1	S3V1	
		Balanced with LTFP -		
		Prioritised Renewal		
		Program (Individual		
Narrandera SC >> Table 6.1 Sustainability		renewal items not		
of Service Delivery for (Sewer_AM4SRRC)	Asset Register	separately identified)	Same as Scenario 2	
Summary - What does it cost?				
Cost over 10 years	\$7,544	\$9,230	\$9,230	
Cost per year	\$754	\$923	\$923	
Available funding over 10 years	\$9,230	\$9,230	\$9,230	
Funding per year	\$923	\$923	\$923	
Funding shortfall	\$169	\$0	\$0	
Percentage of cost	122%	100%	100%	

Tahle 17.	Sustainability	/ Indicators	Summary
IUDIC I/.	Justaniability	/ maicators	Juilliul

	Sewer	Sewer	Sewer
	S1V1	S2V1 Balanced with LTFP -	\$3V1
		Prioritised Renewal Program (Individual	
Narrandera SC >> Table 6.1 Sustainability		renewal items not	
of Service Delivery for (Sewer_AM4SRRC) Life Cycle Cost (long term)'(\$000)	Asset Register	separately identified)	Same as Scenario 2
Life Cycle Cost [depreciation + ops. and maint. exp year 1]	\$843	\$843	\$843
Life Cycle Exp. [capital renewal exp. + ops + mtce exp. yr 1]	\$923	\$923	\$923
Life Cycle Gap [life cycle expenditure - life cycle cost [-ve = gap]	\$80	\$80	\$80
Life Cycle Sustainability Indicator [life cycle expenditure / LCC]	109.50%	109.50%	109.50%
Medium Term (10 yrs) Sustainability			
10 yr Ops, Maint & Renewal Projected Expenditure	\$754	\$923	\$923
10 yr Ops, Maint & Renewal Planned (Budget) Exp	\$923	\$923	\$923
10 yr Funding Shortfall [10 yr proj. exp planned (Budget) exp.]	\$169	\$0	\$0
10 yr Sustainability Indicator [10 yr planned exp. / proj. exp.]	122%	100%	100%
Short Term (5 yrs) Sustainability			
5 yr Ops, Maint & Renewal Projected Expenditure	\$776	\$923	\$923
5 yr Ops, Maint & Renewal Planned (Budget) Exp	\$923	\$923	\$923
5 yr Funding Shortfall [5 yr proj. exp planned (budget) exp.]	\$147	\$0	\$0
5 yr Sustainability Indicator [5 yr planned exp. / proj. exp.]	119%	100%	100%
AIFMG Financial Sustainability Indicator 8.			
NPV Budget Expenditure / NPV Projected Expenditure	175%	100%	100%

Summary of Table Above

Scenario	Long Term	Medium Term	
	Lifecycle	5 Year	10 Year
Scenario 1 Sewer S1V1 Asset Register	109.50% Sustainability Ratio (Target is 100%)	119% Sustainability Ratio (Target is 100%)	122% Sustainability Ratio (Target is 100%)
	Based on the comparison of current expenditures (Year 1) to the Projected (Forecast Expenditures) using depreciation as the long term renewal requirement.	Based on the comparison of current expenditures (5 years) to the Projected (Forecast Expenditures) using the renewals due from the asset register.	Based on the comparison of current expenditures (10 years) to the Projected (Forecast Expenditures) using the renewals due from the asset register.
	*A second calculation using the current expenditures based on the 10 year planned (forecast) expenditures resulted in a ratio of 109.50%. This allowed for the variability between year 1 expenditures and the 10 year totals. This indicates that there is no variation between the current expenditures and the long term average. Full alternate ratio calculations are shown in appendix D.	In isolation this ratio of >100% would indicate that renewals are being over funded. Scenarios 2 & 3 have been undertaken to validate the real position. The apparent surplus reflects that the asset register requires further development to reliably reflect the medium term position.	In isolation this ratio of >100% would indicate that renewals are being over funded. Scenarios 2 & 3 have been undertaken to validate the real position. The apparent surplus reflects that the asset register requires further development to reliably reflect the medium term position.
		(*Second Calculation 112%)	(*Second Calculation 113%)
Scenario 2 Sewer S2V1 Balanced to LTFP - Prioritised Renewal Program (Individual renewal items not separately identified)	109.50% Sustainability Ratio (Target is 100%) Same calculation for Scenario 1, 2 & 3	100% Sustainability Ratio (Target is 100%) Based on the current expenditures against the Projected (Forecast Expenditures) prioritised renewal program in line with the LTFP budget figures (individual renewal items not identified). At this time the renewal program is simply balanced to the budget figures provided, Council will be required to separately identify actual renewal program items to determine sustainability of the medium term position.	100% Sustainability Ratio (Target is 100%) Based on the current expenditures against the Projected (Forecast Expenditures) prioritised renewal program in line with the LTFP budget figures (individual renewal items not identified). At this time the renewal program is simply balanced to the budget figures provided, Council will be required to separately identify actual renewal program items to determine sustainability of the medium term position.
		(*Second Calculation 100%)	(*Second Calculation 100%)

Scenario	Long Term	Medium Term	
	Lifecycle	5 Year	10 Year
Scenario 3 Sewer S3V1 Same as Scenario 2	109.50% Sustainability Ratio (Target is 100%) Same calculation for Scenario 1, 2 & 3	100% Sustainability Ratio (Target is 100%) Based on the current expenditures balanced to the Projected (Forecast Expenditures) prioritised renewal requirements in line with LTFP budget figures. Same as Scenario 2.	100% Sustainability Ratio (Target is 100%) Based on the current expenditures balanced to the Projected (Forecast Expenditures) prioritised renewal requirements in line with LTFP budget figures. Same as Scenario 2.
		(*Second calculation 100%)	(*Second calculation 100%)

For the overall assessments used in this asset management plan (including the Executive Summary) the assessment made under Scenario 1 is used as scenario 3 is a demonstrative sustainable position and has yet to be developed by Council.

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 operations and maintenance expenditure and asset consumption (depreciation expense). The life cycle cost for the services covered in this asset management plan is \$843,000 per year (operations and maintenance expenditure plus depreciation expense in year 1).

Life cycle costs can be compared to life cycle expenditure to give an indicator of sustainability in service provision. Life cycle expenditure includes operations, maintenance and capital renewal expenditure in year 1. Life cycle expenditure will vary depending on the timing of asset renewals. The life cycle expenditure at the start of the plan is \$923,000 (operations and maintenance expenditure plus budgeted capital renewal expenditure in year 1).

A shortfall between life cycle cost and life cycle expenditure is the life cycle gap.

The life cycle gap for services covered by this asset management plan is +\$80,000 per year (-ve = gap, +ve = surplus).

Life cycle expenditure is 109.50% of life cycle costs giving a life cycle sustainability index of 1.10.

The life cycle costs and life cycle expenditure comparison highlights any difference between present outlays and the average cost of providing the service over the long term. If the life cycle expenditure is less than that life cycle cost, it is most likely that outlays will need to be increased or cuts in services made in the future.

Knowing the extent and timing of any required increase in outlays and the service consequences if funding is not available will assist organisations in providing services to their communities in a financially sustainable manner. This is the purpose of the asset management plans and long term financial plan.

Medium term – 10 year financial planning period

This asset management plan identifies the projected operations, maintenance and capital renewal expenditures required to provide an agreed level of service to the community over a 10 year period. This provides input into 10 year financial and funding plans aimed at providing the required services in a sustainable manner.

These projected expenditures may be compared to budgeted expenditures in the 10 year period to identify any funding shortfall. In a core asset management plan, a gap is generally due to increasing asset renewals for ageing assets.

The projected operations, maintenance and capital renewal expenditure required over the 10 year planning period is \$754,000 per year (for scenario 1).

Estimated (budget) operations, maintenance and capital renewal funding is \$923,00 per year giving a 10 year funding surplus of \$169,000 per year and a 10 year sustainability indicator of 1.22. This indicates that Council has 122% of the projected expenditures needed to provide the services documented in the asset management plan.

Medium Term – 5 year financial planning period

The projected operations, maintenance and capital renewal expenditure required over the first 5 years of the planning period is \$776,000 per year (for scenario 1).

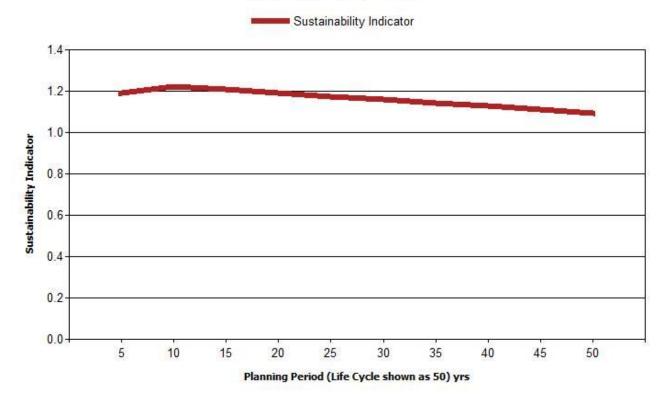
Estimated (budget) operations, maintenance and capital renewal funding is \$923,000 per year giving a 5 year funding surplus of \$147,000. This is 119% of projected expenditures giving a 5 year sustainability indicator of 1.20.

Financial Sustainability Indicators

Figure 11 shows the financial sustainability indicators over the 10 year planning period and for the long term life cycle.

Figure 11: Financial Sustainability Indicators (Scenario 1 – From Asset Register)

Narrandera SC - Financial Sustainability Indicators (Sewer_S1_V1)



Providing services from infrastructure in a sustainable manner requires the matching and managing of service levels, risks, projected expenditures and funding to achieve a financial sustainability indicator of 1.0 for the first years of the asset management plan and ideally over the 10 year life of the AM Plan.

Figure 8 shows the projected asset renewals in the 10 year planning period from Appendix B. The projected asset renewals are compared to budgeted renewal expenditure in the capital works program and capital renewal expenditure in year 1 of the planning period in Figure 12.



Narrandera SC - Projected & Budget Renewal Expenditure (Sewer_S1_V1)

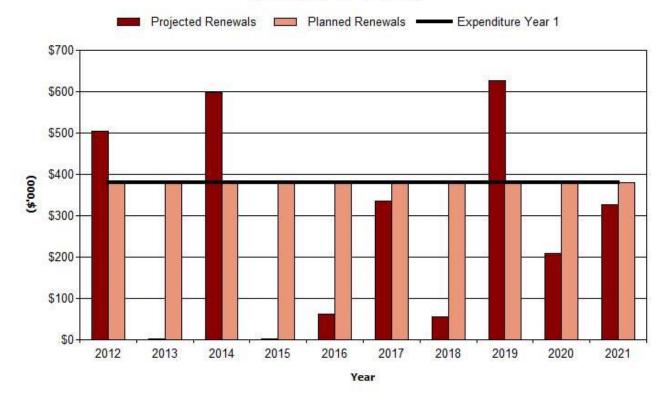


Table 18.S1 shows the shortfall between projected and budgeted renewals for Scenario 1.

Table 18.S1: Projected and Budgeted Renewals and Expenditure Shortfo	all (Scenario 1 - from Asset Register)
Narrandera SC >> Asset Management Plan Table 6.1.1	(Sewer_S1_V1)

Year End	Projected	Planned	Renewal Funding	Cumulative
Jun-30 Renewal (\$'000)	Renewal	Renewal	Difference	Difference
	Budget (\$'000)	(- ve = Gap) (\$'000)	Difference (- ve = Gap	
2012	\$505.51	\$381.00	-\$124.51	-\$124.51
2013	\$2.47	\$381.00	\$378.53	\$254.02
2014	\$596.91	\$381.00	-\$215.91	\$38.11
2015	\$1.36	\$381.00	\$379.64	\$417.76
2016	\$62.55	\$381.00	\$318.45	\$736.21
2017	\$336.16	\$381.00	\$44.84	\$781.05
2018	\$54.86	\$381.00	\$326.14	\$1,107.19
2019	\$625.57	\$381.00	-\$244.57	\$862.62
2020	\$209.18	\$381.00	\$171.82	\$1,034.45
2021	\$327.38	\$381.00	\$53.62	\$1,088.07

Note: An negative shortfall indicates a funding gap, a positive shortfall indicates a surplus for that year.

Figure 133: Projected and Budgeted Renewal Expenditure (Scenario 2 and 3 – Balanced to LTFP – Prioritised Renewal Program)

Narrandera SC - Projected & Budget Renewal Expenditure (Sewer_S3_V1)

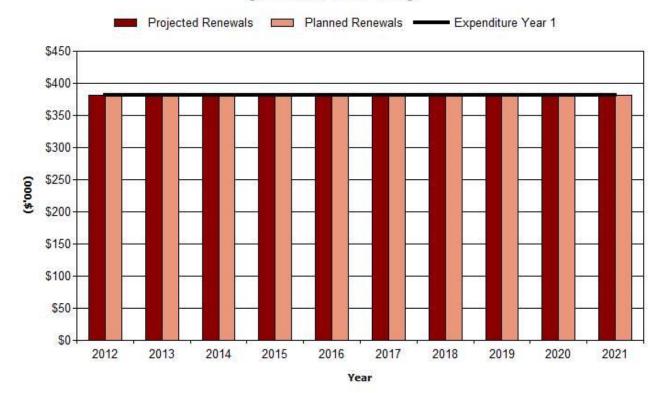


Table 19.S2 shows the shortfall between projected and budgeted renewals for Scenario 2.

Table 19.52: Projected and Budgeted Renewals and Expenditure Shortfall (Scenario 2 and 3 – Balanced to LTFP –
Prioritised Renewal Program)

Year End Jun-30	Projected Renewal (\$'000)	Planned Renewal Budget (\$'000)	Renewal Funding Difference (- ve = Gap) (\$'000)	Cumulative Difference Difference (- ve = Gap (\$'000)
2012	\$381.00	\$381.00	\$0.00	\$0.00
2013	\$381.00	\$381.00	\$0.00	\$0.00
2014	\$381.00	\$381.00	\$0.00	\$0.00
2015	\$381.00	\$381.00	\$0.00	\$0.00
2016	\$381.00	\$381.00	\$0.00	\$0.00
2017	\$381.00	\$381.00	\$0.00	\$0.00
2018	\$381.00	\$381.00	\$0.00	\$0.00
2019	\$381.00	\$381.00	\$0.00	\$0.00
2020	\$381.00	\$381.00	\$0.00	\$0.00
2021	\$381.00	\$381.00	\$0.00	\$0.00

Note: An negative shortfall indicates a funding gap, a positive shortfall indicates a surplus for that year.

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.

We will manage the 'gap' by developing this asset management plan to provide guidance on future service levels and resources required to provide these services, and review future services, service levels and costs with the community.

6.1.2 Expenditure projections for long term financial plan

Table 20 shows the projected expenditures for the 10 year long term financial plan.

Expenditure projections are in current (non-inflated) values. Disposals are shown as net expenditures (revenues are negative).

Table 20: Expenditure Projections for Long Term Financial Plan (\$000) (Scenario 3 – Balanced to LTFP – Prioritised Renewal Program)

Narrandera SC >> Planned Expenditures for Long Term Financial Plan (Sewer_S3_V1)

	Ŭ			
Total	Total	Projected	Planned	Net Disposals
Operations	Maintenance	Capital	Capital	(\$'000)
Expenditure	(\$'000)	Renewal	Upgrade/New	
(\$'000)		(\$'000)	(\$'000)	
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
\$290.00	\$252.00	\$381.00	\$0.00	\$0.00
	Operations Expenditure (\$'000) \$290.00 \$290.00 \$290.00 \$290.00 \$290.00 \$290.00 \$290.00 \$290.00 \$290.00	Operations Maintenance Expenditure (\$'000) (\$'000) \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00 \$290.00 \$252.00	Operations Maintenance Capital Expenditure (\$'000) Renewal (\$'000) \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00 \$290.00 \$252.00 \$381.00	Operations Maintenance Capital Capital Expenditure (\$'000) Renewal Upgrade/New (\$'000) \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00 \$290.00 \$252.00 \$381.00 \$0.00

Note: All projected expenditures are in 2012 values

6.2 Funding Strategy

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

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. Figure 14 shows the projected replacement cost asset values over the planning period in 2012 dollar values.

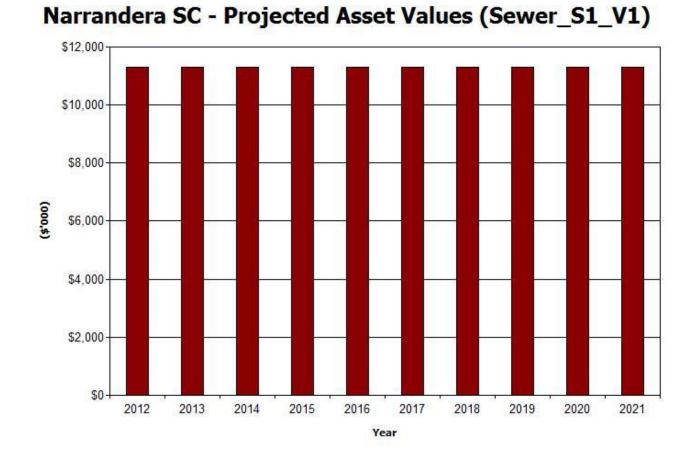
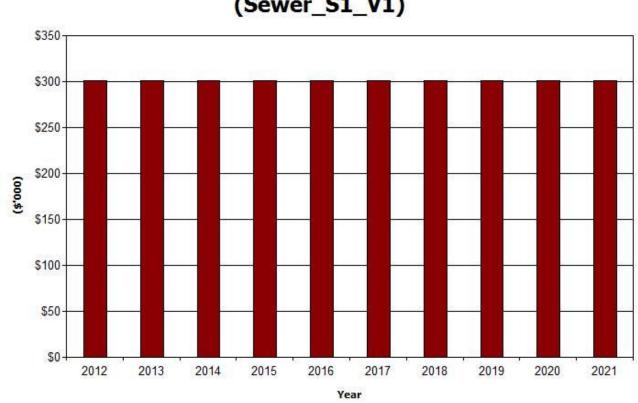


Figure 14: Projected Asset Values

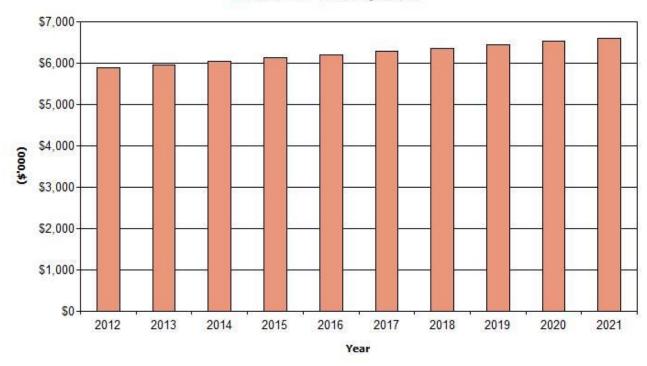
Depreciation expense values are forecast in line with asset values as shown in Figure 15.



Narrandera SC - Projected Depreciation Expense (Sewer_S1_V1)

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 Figure 16. The effect of contributed and new assets on the depreciated replacement cost is shown in the light colour bar.

Narrandera SC - Projected Depreciated Replacement Cost (Sewer_S1_V1)



New Assets Existing Assets

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 asset management plan are:

- That sewerage system assets will remain in Council's ownership throughout the planning period and that levels of service remain unchanged;
- Required maintenance is assumed to take place in accordance with relevant codes and standards.
- Natural disasters (such as flood), vandalism and other unplanned events are not considered in the asset lifecycles.
- That sewerage system assets will be replaced at the end of their useful life;
- Sewerage system assets are assumed to reach their allocated design lives even though degradation will vary according to location, prevailing weather and usage.
- All upgrade and renewal expenditure is stated in 2012 dollar values;

- Information within the asset register is based on current knowledge only;
- Maintenance and operations allocations are largely based on maintaining current service levels, expenditure is stated in 2012 dollar values;
- The depreciation has been calculated on a straight-line basis

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

- Full Implementation of a single Asset Register
- Maintaining the Asset Register
- Reviewing useful lives for assets in conjunction with developing suitable hierarchies within the asset categories.
- Higher detail and definition in relation to the current expenditures by type e.g. operating, maintenance, renewal, upgrade/new

.7. ASSET MANAGEMENT PRACTICES

7. ASSET MANAGEMENT PRACTICES

7.1 Accounting/Financial Systems

7.1.1 Accounting and financial systems

Civica Accounting System

7.1.2 Accountabilities for financial systems

Director Corporate Services

7.1.3 Accounting standards and regulations

AASB116

Local Government Act as Amended for IPR.

7.1.4 Capital/maintenance threshold

See asset accounting policy

7.1.5 Required changes to accounting financial systems arising from this AM Plan

All asset registers currently in XL will be migrated to e-lifecycle

7.2 Asset Management Systems

e-lifecycle Asset Management System provides predictive and asset management modelling for the ongoing update of the asset management plans and strategy. Finmod provides the modelling for water and sewer debt and charges that are needed to ensure self-funding water and sewer systems. The transition to new financial management systems and respective roles of GIS, Financial System, asset financial and component registers needs to be guided by a knowledge management strategy.

7.2.2 Asset registers

All asset registers currently in XL will be migrated to e-lifecycle

7.2.3 Linkage from asset management to financial system

Quarterly update of capital transactions from asset management to financial system to keep e-lifecycle asset register up to date for: condition, remaining life, useful life, values. Synchronisation of financial system and e-lifecycle asset register when a revaluation occurs. Annual balancing of end of year note 9a reporting.

7.2.4 Accountabilities for asset management system and data

Design and Asset Manager

7.2.5 Required changes to asset management system arising from this AM Plan

Implementation of e-lifecycle and update of asset register as per table 22 in section 8.2.

7.3 Information Flow Requirements and Processes

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

- Council strategic and operational plans,
- Service requests from the community,
- Network assets information,
- The unit rates for categories of work/materials,
- Current levels of service, expenditures, service deficiencies and service risks,
- Projections of various factors affecting future demand for services and new assets acquired by Council,
- Future capital works programs,
- Financial asset values.

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

- The projected Works Program and trends,
- The resulting budget and long term financial plan expenditure projections,
- Financial sustainability indicators.

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

7.4 Standards and Guidelines

Standards, guidelines and policy documents referenced in this asset management plan are:

- Local Government Act (NSW) 1993
- Local Government Amendment (Planning and Reporting) Act 2009
- Local Government (Finance Plans and Reporting) Regulation 2010
- AASB116

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 cashflows identified in this asset management plan are incorporated into the organisation's long term financial plan and Community/Strategic Planning processes and documents,
- 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 21.

Task No	Task	Responsibility	Resources Required	Timeline
1	Continue the development of the corporate asset register, in which financial calculations including calculation of annual depreciation are undertaken by council.	Corporate (Technical & Financial)	Staff Time	December 2012
2	Develop the forward capital renewal programme under scenarios 2 (optimal renewal program) and 3 (prioritised renewal program in line with LTFP budget figures) and develop strategy for acquiring condition data for use in the condition reporting tables (figures 3 and 4)	Corporate	Staff Time	June 2013
3	Continue to Improve project cost accounting to record costs against the asset component and develop valuation unit rates	Corporate (Technical & Financial)	Staff Time	December 2012
4	Review and update the service level in section 3.3 to enable annual state of the assets reporting on condition, function and utilisation	Technical	Staff Time	December 2012
5	Review methodology for determining remaining life, with detail assessment for assets requiring renewal in the medium term (next 10-20 years)	Corporate (Technical & Financial)	Staff Time	June 2013
6	Continue to review the procedures for maintaining the Asset and Financial Registers	Corporate (Technical & Financial)	Staff Time	Ongoing
7	Carry out an asset management maturity audit to ensure compliance with the national asset management framework and IPR guidelines.	Corporate (Technical & Financial)	LGRF funded	Annual

Table 21 Section 8.2: Improvement Plan

8.3 Monitoring and Review Procedures

This asset management plan will be reviewed during annual budget preparation and amended to recognise any material 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 12 months of each Council election.

REFERENCES

- DVC, 2006, Asset Investment Guidelines, Glossary, Department for Victorian Communities, Local Government Victoria, Melbourne, <u>http://www.dpcd.vic.gov.au/localgovernment/publications-and-research/asset-management-and-financial</u>.
- IPWEA, 2006, International Infrastructure Management Manual, Institute of Public Works Engineering Australia, Sydney, <u>www.ipwea.org.au</u>.
- IPWEA, 2008, NAMS.PLUS Asset Management Institute of Public Works Engineering Australia, Sydney, www.ipwea.org.au/namsplus.
- IPWEA, 2009, Australian Infrastructure Financial Management Guidelines, Institute of Public Works Engineering Australia, Sydney, <u>www.ipwea.org.au/AIFMG</u>.
- IPWEA, 2011, Asset Management for Small, Rural or Remote Communities Practice Note, Institute of Public Works Engineering Australia, Sydney, <u>www.ipwea.org.au/AM4SRRC</u>.

Narrandera Shire Council Adopted Asset Management Plan 2011-2016

Narrandera Shire Council Annual Report 2010/11

APPENDICES

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renewal items not separately identified – Demonstrative only, not developed or adopted by Council))80Appendix C1Planned Upgrade/Exp/New 10 year Capital Works Program (Scenario 1 – From Asset Register)84Appendix DAlternate Ratio Calculations88Appendix EAbbreviations89

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Appendix A Planned Expenditures (From Long Term Financial Plan)

IPWEA Asset Management for Small, Rural or Remote Communities

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Narrandera SC Sewer_S1_V1 Asset Management Plan **Planned Expenditures**

(000)

(000)

(000)

(000)

Form 2 CRC values

\$11,293 (000) as check for you 51% of CRC

from New Assets

3% of D Amt Additional depreciation

Additional operations costs

Planned renewals (information only)

Additional maintenance

First year of expenditure projections 2012 (yr ending 30 June)

Asset values as at 30 June	2011
Current replacement cost	\$11,2
Depreciable amount	\$11,2
Depreciated replacement cost	\$5,8
Annual depreciation expense	\$3

Projected Expenditures

10 Year Expenditure Projections Note: Enter all values in curren 2012 values

Year ending June	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000	\$000
Operations (Budget or LTFP)						•				
Operations	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290
Management		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0
AM systems		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total operations	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290	\$290
Maintenance (Budget or LTFP)										
Reactive maintenance	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252
Planned maintenance		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Specific maintenance items		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total maintenance	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252	\$252
Capital										
Planned renewal budget	\$381	\$381	\$381	\$381	\$381	\$381	\$381	\$381	\$381	\$381
Planned upgrade/new (from Form 2C)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non-growth contributed asset value	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Disposal Expenditure User Comments #1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Operations and Maintenance Costs Existing %ages calculated from % of asset value data in worksheet 2.57% of CRC 2.23% of CRC

2.67% of D Amt

3.37% of CRC

You may use these values calculated from your data or overwrite the links.

2.67

	Narra	andera SC >> Renewa	al Prograi	m (Se	wer_S1_'	V1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SNM000324	Sewer Main	E/020-E/021			-42	1970	\$233.74	70
SNM000323	Sewer Main	E/020-E/030			-42	1970	\$5,697.17	70
SNM000322	Sewer Main	E/030-E/029			-42	1970	\$193.35	70
						Subtotal	\$6,124.26	
SNM000337	Sewer Main	H/007-H/006A			-41	1971	\$2,862.29	70
SNM000224	Sewer Main	H/008-H/007			-41	1971	\$372.35	70
SNM000634	Sewer Main	H/009-H/008			-41	1971	\$222.42	70
SNM000225	Sewer Main	H/010-H/009			-41	1971	\$235.33	70
SNM000635	Sewer Main	H/011-H/010			-41	1971	\$238.26	70
SNM000228	Sewer Main	H/012-H/011			-41	1971	\$260.62	70
SNM000229	Sewer Main	H/013-H/012			-41	1971	\$294.54	70
SNM000230	Sewer Main	H/014-H/013			-41	1971	\$5,811.63	70
SNM000231	Sewer Main	H/015-H/014			-41	1971	\$180.00	70
SNM000232	Sewer Main	H/016-H/015			-41	1971	\$172.23	70
SNM000233	Sewer Main	H/017-H/016			-41	1971	\$5,687.92	70
SNM000235	Sewer Main	H/018-DE110			-41	1971	\$237.25	70
SNM000234	Sewer Main	H/018-H/017			-41	1971	\$229.96	70
SNM000236	Sewer Main	H/067A-H/067			-41	1971	\$5,642.62	70
SNM000636	Sewer Main	H/067-H/018			-41	1971	\$6,676.96	70
SNM000295	Sewer Main	J/040-DE116			-41	1971	\$125.29	70
SNM000520	Sewer Main	J/040-DE117			-41	1971	\$220.40	70
SNM000632	Sewer Main	J/041-E/021			-41	1971	\$350.18	70
SNM000296	Sewer Main	J/041-J/040			-41	1971	\$255.76	70
						Subtotal	\$30,076.01	
SNM000326	Sewer Main	E/018A-E/019			-40	1972	\$221.12	70
SNM000327	Sewer Main	E/018-E/018A			-40	1972	\$148.17	70
SNM000325	Sewer Main	E/019-E/020			-40	1972	\$198.43	70
						Subtotal	\$567.72	
SNM000547	Sewer Main	H/020-H/019			-36	1976	\$0.00	70
SNM000286	Sewer Main	J/015-J/014			-36	1976	\$6,993.94	70
SNM000288	Sewer Main	J/015-J/034			-36	1976	\$58.66	70
SNM000289	Sewer Main	J/016-J/015			-36	1976	\$5,301.84	70
SNM000290	Sewer Main	J/017-J/016			-36	1976	\$12,137.88	70
SNM000551	Sewer Main	J/018-H/020			-36	1976	\$399.00	70
SNM000291	Sewer Main	J/018-J/017			-36	1976	\$20,194.93	70
SNM000697	Sewer Main	J/018-J/019			-36	1976	\$331.67	70

Appendix B1 Projected 10 year Capital Renewal Works Program (Scenario 2 – Prioritised Renewal Program)

NARRANDERA SHIRE COUNCIL -SEWERAGE SYSTEMS ASSET MANAGEMENT PLAN - VERSION 1.02, 7 June 2012

Narrandera SC >> Renewal Program (Sewer_S1_V1)										
	Sub				Rem	Planned	Renewal	Useful		
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life		
Asset ID	Category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)		
SNM000262	Sewer Main	J/026-DE121			-36	1976	\$33.89	70		
SNM000265	Sewer Main	J/029-DE123			-36	1976	\$211.81	70		
SNM000266	Sewer Main	J/030-J/029			-36	1976	\$260.63	70		
SNM000280	Sewer Main	J/034-J/033			-36	1976	\$155.52	70		
SNM000287	Sewer Main	J/034-J/039			-36	1976	\$167.04	70		
SNM000522	Sewer Main	J/038-DE124			-36	1976	\$5,718.40	70		
SNM000285	Sewer Main	, J/039-J/038			-36	1976	\$177.84	70		
						Subtotal	\$52,143.05			
						Subtotal	<i>432,143,03</i>			
SNM000247	Sewer Main	H/033-H/055			-34	1978	\$10,547.67	70		
SNM000688	Sewer Main	H/034-H/060A			-34	1978	\$99.07	70		
SNM000238	Sewer Main	H/035-H/062			-34	1978	\$312.87	70		
SNM000202	Sewer Main	H/046-DE			-34	1978	\$188.69	70		
SNM000203	Sewer Main	H/046-H/045			-34	1978	\$109.31	70		
SNM000205	Sewer Main	H/047-DE102			-34	1978	\$216.07	70		
SNM000204	Sewer Main	H/047-H/046			-34	1978	\$191.30	70		
SNM000206	Sewer Main	H/048-H/047			-34	1978	\$226.27	70		
SNM000207	Sewer Main	H/049-H/048			-34	1978	\$280.76	70		
SNM000208	Sewer Main	H/050-H/049			-34	1978	\$269.10	70		
SNM000685	Sewer Main	H/051A-H/051			-34	1978	\$268.17	70		
SNM000210	Sewer Main	H/051-H/052			-34	1978	\$330.86	70		
SNM000209	Sewer Main	H/052-H/050			-34	1978	\$5,627.91	70		
SNM000245	Sewer Main	H/054A-DE105			-34	1978	\$109.12	70		
SNM000525	Sewer Main	H/054A-H/053			-34	1978	\$8,226.10	70		
SNM000524	Sewer Main	H/054-H/054A			-34	1978	\$2,199.99	70		
SNM000246	Sewer Main	H/055-H/054			-34	1978	\$6,540.59	70		
SNM000240	Sewer Main	H/057A-H/057			-34	1978	\$246.05	70		
SNM000239	Sewer Main	H/057-DE106			-34	1978	\$259.82	70		
SNM000211	Sewer Main	H/058-DE107			-34	1978	\$5,619.20	70		
SNM000212	Sewer Main	H/059-H/058			-34	1978	\$67.53	70		
SNM000214	Sewer Main	H/060A-H/060			-34	1978	\$315.72	70		
SNM000213	Sewer Main	H/060-H/059			-34	1978	\$363.36	70		
SNM000237	Sewer Main	H/062-H/061			-34	1978	\$270.40	70		
SNM000215	Sewer Main	H/063-DE			-34	1978	\$136.63	70		
SNM000216	Sewer Main	H/064-H/063			-34	1978	\$238.33	70		
SNM000218	Sewer Main	H/065A-H/065			-34	1978	\$182.31	70		
SNM000217	Sewer Main	H/065-H/064			-34	1978	\$53.14	70		
SNM000221	Sewer Main	H/066B-H/066			-34	1978	\$245.76	70		
SNM000219	Sewer Main	H/066-H/065A			-34	1978	\$118.49	70		
SNM000220	Sewer Main	H/066-H/066A			-34	1978	\$47.95	70		
SNM000263	Sewer Main	J/027-J/026			-34	1978	\$53.47	70		

	Narr	andera SC >> Renewa	I Progra	m (Se	wer_S1_	V1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
//////	category				(Years)	Year	(\$)	(Years)
SNM000294	Sewer Main	J/048-DE120			-34	1978	\$5,746.92	70
SNM000293	Sewer Main	J/049-J/048			-34	1978	\$201.85	70
SNM000292	Sewer Main	J/050-J/049			-34	1978	\$165.92	70
		· ·				Subtotal	\$50,076.70	
	- · · · ·						400000	
SNM000009	Sewer Main	J/030-J/035			-31	1981	\$836.92	70
SNM000056	Sewer Main	J/035-DE122			-31	1981	\$6,695.72	70
						Subtotal	\$7,532.64	
SNM000347	Sewer Main	D/005-D/004			-26	1986	\$713.26	70
SNM000345	Sewer Main	D/005-D/023			-26	1986	\$319.50	70
SNM000344	Sewer Main	D/006-D/005			-26	1986	\$212.00	70
SNM000343	Sewer Main	D/007-D/006			-26	1986	\$526.38	70
SNM000342	Sewer Main	D/008-D/007			-26	1986	\$363.03	70
SNM000341	Sewer Main	D/009-D/008			-26	1986	\$383.53	70
SNM000340	Sewer Main	D/009-D/025			-26	1986	\$3,059.68	70
SNM000336	Sewer Main	D/010-D/009			-26	1986	\$3,379.50	70
SNM000562	Sewer Main	D/013A-D/014			-26	1986	\$4,012.94	70
SNM000561	Sewer Main	D/014A-D/014			-26	1986	\$1,747.88	70
SNM000559	Sewer Main	D/015-D/016			-26	1986	\$692.50	70
SNM000560	Sewer Main	D/016-D/014			-26	1986	\$1,747.88	70
SNM000558	Sewer Main	D/017-D/015			-26	1986	\$1,181.72	70
SNM000555	Sewer Main	D/018-D/017			-26	1986	\$1,256.10	70
SNM000346	Sewer Main	D/023-DE58			-26	1986	\$594.64	70
SNM000339	Sewer Main	D/025-D/024			-26	1986	\$2,272.22	70
SNM000556	Sewer Main	D/046-D/018			-26	1986	\$34,135.69	70
SNM000557	Sewer Main	E/021-D/046			-26	1986	\$34,069.13	70
SNM000338	Sewer Main	H/007-D/024			-26	1986	\$2,808.54	70
						Subtotal	\$93,476.12	
SNM000248	Sewer Main	H/042-DE101			-20	1992	\$210.62	70
SNM000249	Sewer Main	, H/043-H/042			-20	1992	\$713.90	70
SNM000686	Sewer Main	H/044A-H/044			-20	1992	\$283.69	70
SNM000250	Sewer Main	H/044-H/043			-20	1992	\$1,095.61	70
						Subtotal	\$2,303.82	
SNM000223	Sewer Main	H/006A-H/006B			-19	1993	\$987.05	70
SNM000223	Sewer Main	H/006B-DE112			-19	1993	\$987.03 \$1,181.41	70
					-13	Subtotal	\$2,168.46	70
SNM000352	Sewer Main	D/004-D/003			-18	1994	\$1,549.51	70

	Narra	indera SC >> Renew	al Progra	m (Se	wer_S1_\	/1)		
	C				Der	Diama	Derror 1	11
Asset ID	Sub	Asset Name	From	То	Rem Life	Planned Renewal	Renewal Cost	Useful Life
Asset ID	Category	Asset Name	From	10	(Years)	Year	(\$)	(Years)
SNM000351	Sewer Main	D/004-D/021			-18	1994	\$1,919.99	(Tears) 70
SNM000350	Sewer Main	D/021-DE58			-18	1994	\$1,274.29	70
SNM000563	Sewer Main	D/033-D/032			-18	1994	\$2,334.27	70
SNM000564	Sewer Main	D/034-D/033			-18	1994	\$1,517.74	70
SNM000329	Sewer Main	D/041-DE55			-18	1994	\$1,261.15	70
SNM000330	Sewer Main	D/042-D/041			-18	1994	\$1,270.08	70
SNM000332	Sewer Main	D/042-D/043			-18	1994	\$1,500.41	70
SNM000255	Sewer Main	Н/030-Н/029			-18	1994	\$4,416.21	70
						Subtotal	\$17,043.65	
SNM000648	Sewer Main	C/006-C/005			-16	1996	\$1,706.75	70
SNM000474	Sewer Main	C/006-C/029			-16	1996	\$1,528.87	70
SNM000476	Sewer Main	C/006-C/030			-16	1996	\$1,008.23	70
SNM000599	Sewer Main	C/007-C/006			-16	1996	\$2,183.53	70
SNM000694	Sewer Main	C/008-C/007			-16	1996	\$1,730.90	70
SNM000530	Sewer Main	C/008-C/034			-16	1996	\$1,410.23	70
SNM000529	Sewer Main	C/008-C/035			-16	1996	\$875.24	70
SNM000585	Sewer Main	C/009-C/008			-16	1996	\$2,200.45	70
SNM000647	Sewer Main	C/009-C/037			-16	1996	\$398.67	70
SNM000593	Sewer Main	C/018A-C/018			-16	1996	\$350.65	70
SNM000508	Sewer Main	C/018A-DE28			-16	1996	\$999.09	70
SNM000592	Sewer Main	C/018-C/017			-16	1996	\$3,535.77	70
SNM000594	Sewer Main	C/019-C/018A			-16	1996	\$2,694.55	70
SNM000597	Sewer Main	C/020-C/019			-16	1996	\$1,356.96	70
SNM000470	Sewer Main	C/026-DE41			-16	1996	\$1,183.77	70
SNM000471	Sewer Main	C/027-C/026			-16	1996	\$1,404.81	70
SNM000472	Sewer Main	C/028-C/027			-16	1996	\$1,531.79	70
SNM000473	Sewer Main	C/029-C/028			-16	1996	\$1,098.86	70
SNM000475	Sewer Main	C/030-DE40			-16	1996	\$1,217.52	70
SNM000533	Sewer Main	C/032-C/031			-16	1996	\$1,244.38	70
SNM000532	Sewer Main	C/033-C/032			-16	1996	\$938.93	70
SNM000531	Sewer Main	C/034-C/033			-16	1996	\$2,106.51	70
SNM000528	Sewer Main	C/035-DE38			-16	1996	\$774.56	70
SNM000504	Sewer Main	C/036-DE37			-16	1996	\$568.90	70
SNM000505	Sewer Main	C/037-C/036			-16	1996	\$733.82	70
SNM000596	Sewer Main	D/031-D/030			-16	1996	\$1,026.55	70
SNM000362	Sewer Main	D/031-D/037			-16	1996	\$194.19	70
SNM000566	Sewer Main	D/032-D/031			-16	1996	\$2,758.09	70
SNM000548	Sewer Main	J/019-J/044			-16	1996	\$241.65	70
SNM000552	Sewer Main	J/020-J/019			-16	1996	\$34,571.78	70
SNM000553	Sewer Main	J/021-J/020			-16	1996	\$1,429.13	70

	Narra	andera SC >> Renewa	al Progra	m (Se	wer_S1_	V1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SNM000276	Sewer Main	J/021-J/064			-16	1996	\$1,686.11	70
SNM000008	Sewer Main	J/061-J/060			-16	1996	\$1,768.69	70
SNM000670	Sewer Main	J/064-J/063			-16	1996	\$1,507.70	70
SNM000625	Sewer Main	SPS1-SPS2			-16	1996	\$1,476.64	70
SNM000626	Sewer Main	SPS2-J/021			-16	1996	\$2,405.65	70
						Subtotal	\$83,849.92	
SNM000253	Sewer Main	H/028-H/027			-15	1997	\$3,991.40	70
SNM000254	Sewer Main	H/029-H/028			-15	1997	\$4,247.20	70
						Subtotal	\$8,238.60	
SNM000368	Sewer Main	D/002-DE60			-14	1998	\$2,023.90	70
SNM000367	Sewer Main	D/003-D/002			-14	1998	\$2,005.18	70
SNM000331	Sewer Main	D/003-D/042			-14	1998	\$1,966.64	70
SNM000299	Sewer Main	E/004-E/005			-14	1998	\$1,139.40	70
SNM000300	Sewer Main	E/005-E/006			-14	1998	\$1,413.06	70
SNM000301	Sewer Main	E/006-E/007			-14	1998	\$1,523.09	70
SNM000311	Sewer Main	E/015-E/016			-14	1998	\$1,946.25	70
SNM000314	Sewer Main	E/016-E/017			-14	1998	\$1,006.13	70
SNM000328	Sewer Main	E/017-E/018			-14	1998	\$772.90	70
						Subtotal	\$13,796.55	
SNM000698	Sewer Main	C/015-C/016			-13	1999	\$2,290.83	70
SNM000591	Sewer Main	C/017-C/016			-13	1999	\$5,758.40	70
SNM000499	Sewer Main	C/017-C/057A			-13	1999	\$1,516.48	70
SNM000509	Sewer Main	C/019-C/067			-13	1999	\$1,959.36	70
SNM000492	Sewer Main	C/054-DE29			-13	1999	\$751.69	70
SNM000496	Sewer Main	C/055-C/054			-13	1999	\$1,459.86	70
SNM000497	Sewer Main	C/056-C/055			-13	1999	\$721.94	70
SNM000498	Sewer Main	C/056-C/057			-13	1999	\$1,516.48	70
SNM000512	Sewer Main	C/063-C/062			-13	1999	\$1,295.12	70
SNM000515	Sewer Main	C/064-C/063			-13	1999	\$2,009.05	70
SNM000511	Sewer Main	C/065-C/064			-13	1999	\$1,667.29	70
SNM000510	Sewer Main	C/066-C/065			-13	1999	\$1,756.40	70
SNM000646	Sewer Main	C/067-C/066			-13	1999	\$1,584.56	70
SNM000335	Sewer Main	D/011-D/010			-13	1999	\$3,255.83	70
SNM000334	Sewer Main	D/012-D/011			-13	1999	\$2,147.84	70
SNM000333	Sewer Main	D/013-D/012			-13	1999	\$1,777.00	70
SNM000565	Sewer Main	D/013-D/034			-13	1999	\$1,783.42	70
SNM000365	Sewer Main	D/027-DE54			-13	1999	\$1,999.25	70
SNM000366	Sewer Main	D/028-D/027			-13	1999	\$1,933.11	70

	Narra	andera SC >> Renewa	al Progra	m (Se	wer_S1_	V1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Name	moni	10	(Years)	Year	(\$)	(Years)
SNM000364	Sewer Main	D/029-D/028			-13	1999	\$1,713.27	70
SNM000598	Sewer Main	D/030-C/020			-13	1999	\$3,469.94	70
SNM000363	Sewer Main	D/030-D/029			-13	1999	\$1,878.36	70
SNM000303	Sewer Main	E/008-E/009			-13	1999	\$1,873.72	70
SNM000304	Sewer Main	E/009-E/010			-13	1999	\$1,961.75	70
SNM000305	Sewer Main	E/010-E/011			-13	1999	\$2,181.05	70
SNM000306	Sewer Main	E/011-E/012			-13	1999	\$1,088.86	70
SNM000309	Sewer Main	E/013-E/014			-13	1999	\$1,988.15	70
SNM000310	Sewer Main	E/014-E/015			-13	1999	\$1,887.46	70
						Subtotal	\$55,226.47	
SNM000348	Sewer Main	D/043-D/044			-12	2000	\$993.01	70
SNM000349	Sewer Main	D/044-DE56			-12	2000	\$856.71	70
SNM000256	Sewer Main	H/031-H/030			-12	2000	\$4,246.87	70
SNM000257	Sewer Main	H/039-DE100			-12	2000	\$1,887.41	70
SNM000258	Sewer Main	H/040-H/039			-12	2000	\$4,201.72	70
SNM000259	Sewer Main	H/041-H/040			-12	2000	\$3,288.98	70
						Subtotal	\$15,474.70	
SNM000589	Sewer Main	C/013-C/012			-8	2004	\$3,670.53	70
SNM000702	Sewer Main	C/014A-C/014			-8	2004	\$851.62	70
SNM000590	Sewer Main	C/014-C/013			-8	2004	\$3,766.67	70
SNM000503	Sewer Main	C/014-C/048			-8	2004	\$2,837.86	70
SNM000701	Sewer Main	C/015-C/014			-8	2004	\$2,023.45	70
SNM000491	Sewer Main	C/015-C/052			-8	2004	\$2,868.69	70
SNM000502	Sewer Main	C/046A-C/046			-8	2004	\$1,460.60	70
SNM000671	Sewer Main	C/047-C/046A			-8	2004	\$763.27	70
SNM000501	Sewer Main	C/048-C/047			-8	2004	\$2,296.14	70
						Subtotal	\$20,538.83	
SNM000586	Sewer Main	C/010-C/009			-7	2005	\$3,485.67	70
SNM000481	Sewer Main	C/010-C/041			-7	2005	\$2,627.21	70
SNM000484	Sewer Main	C/010-C/044			-7	2005	\$1,996.23	70
SNM000587	Sewer Main	C/011-C/010			-7	2005	\$3,826.60	70
SNM000588	Sewer Main	C/012-C/011			-7	2005	\$3,579.29	70
SNM000477	Sewer Main	C/038-DE36			-7	2005	\$1,916.26	70
SNM000478	Sewer Main	C/039-C/038			-7	2005	\$2,762.53	70
SNM000479	Sewer Main	C/040-C/039			-7	2005	\$2,635.00	70
SNM000480	Sewer Main	C/041-C/040			-7	2005	\$2,873.41	70
SNM000483	Sewer Main	C/044-C/043			-7	2005	\$1,734.24	70
SNM000315	Sewer Main	E/025-E/024			-7	2005	\$2,564.83	70
SNM000480 SNM000483	Sewer Main Sewer Main	C/041-C/040 C/044-C/043			-7 -7	2005 2005	\$2,873.41 \$1,734.24	70 70

	Sub				Rem	Planned	Renewal	Us
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	L
					(Years)	Year	(\$)	(Ye
SNM000316	Sewer Main	E/026-E/025			-7	2005	\$2,559.82	-
SNM000317	Sewer Main	E/027-E/026			-7	2005	\$2,739.98	7
SNM000318	Sewer Main	E/028-E/027			-7	2005	\$2,393.06	7
SNM000319	Sewer Main	E/029-E/028			-7	2005	\$1,223.68	-
SNM000321	Sewer Main	E/029-E/031			-7	2005	\$3,674.86	-
SNM000320	Sewer Main	E/031-DE			-7	2005	\$649.81	7
						Subtotal	\$43,242.48	
SNM000244	Sewer Main	H/053-H/069			-4	2008	\$3,414.34	7
						Subtotal	\$3,414.34	
SMH000606	Sewer Pit	A/087			-1	2011	\$0.00	2
SMH000607	Sewer Pit	A/088			-1	2011	\$0.00	Z
SMH000620	Sewer Pit	A/089			-1	2011	\$0.00	Z
SMH000609	Sewer Pit	A/090			-1	2011	\$0.00	2
SMH000614	Sewer Pit	A/091			-1	2011	\$0.00	2
SMH000613	Sewer Pit	A/092			-1	2011	\$0.00	2
SMH000608	Sewer Pit	A/093			-1	2011	\$0.00	2
SMH000610	Sewer Pit	A/094			-1	2011	\$0.00	2
SMH000617	Sewer Pit	A/095			-1	2011	\$38.27	2
SMH000618	Sewer Pit	A/096			-1	2011	\$38.27	2
SMH000619	Sewer Pit	A/097			-1	2011	\$38.27	2
SMH000615	Sewer Pit	A/098			-1	2011	\$0.00	2
SMH000612	Sewer Pit	A/099			-1	2011	\$0.00	2
SMH000611	Sewer Pit	A/100			-1	2011	\$38.27	Z
SMH000616	Sewer Pit	A/101			-1	2011	\$38.27	Z
						Subtotal	\$191.35	
SMH000603	Sewer Pit	DE42			0	2012	\$30.80	2
						Subtotal	\$30.80	
SNT000001/37	Plant and Equipment	FENCE			1	2013	\$2,147.53	ź
SMH000593	Sewer Pit	C/014A			1	2013	\$81.32	Z
SMH000594	Sewer Pit	C/014B			1	2013	\$81.32	Z
SMH000595	Sewer Pit	C/014C			1	2013	\$81.32	Z
SMH000592	Sewer Pit	D/013A			1	2013	\$81.32	2
						Subtotal	\$2,472.81	
SMH000552	Sewer Pit	A/011			2	2014	\$1,436.07	
SMH000333	Sewer Pit	A/011 A/013			2	2014 2014	\$1,436.07 \$1,039.34	

	Nalla	indera SC >> Renew	ai Progra	ni (3e	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000551	Sewer Pit	A/014			2	2014	\$1,441.77	5
SMH000550	Sewer Pit	A/015			2	2014	\$1,039.34	5
SMH000330	Sewer Pit	A/016			2	2014	\$1,039.34	5
SMH000549	Sewer Pit	A/017			2	2014	\$1,039.34	5
SMH000547	Sewer Pit	A/018			2	2014	\$1,039.34	5
SMH000548	Sewer Pit	A/019			2	2014	\$1,039.34	5
SMH000546	Sewer Pit	A/020			2	2014	\$1,039.34	5
SMH000545	Sewer Pit	A/021			2	2014	\$1,039.34	5
SMH000544	Sewer Pit	A/022			2	2014	\$1,039.34	5
SMH000543	Sewer Pit	A/023			2	2014	\$1,039.34	5
SMH000542	Sewer Pit	A/030			2	2014	\$1,039.34	5
SMH000031	Sewer Pit	A/032			2	2014	\$1,039.34	5
SMH000030	Sewer Pit	A/033			2	2014	\$1,039.34	5
SMH000534	Sewer Pit	A/034			2	2014	\$1,039.34	5
SMH000533	Sewer Pit	A/035			2	2014	\$1,316.31	5
SMH000028	Sewer Pit	A/036			2	2014	\$1,039.34	5
SMH000029	Sewer Pit	A/037			2	2014	\$2,799.25	5
SMH000027	Sewer Pit	A/038			2	2014	\$1,039.34	5
SMH000532	Sewer Pit	A/039			2	2014	\$1,039.34	5
SMH000036	Sewer Pit	A/040			2	2014	\$1,039.34	5
SMH000035	Sewer Pit	A/041			2	2014	\$785.85	5
SMH000034	Sewer Pit	A/042			2	2014	\$950.65	5
SMH000033	Sewer Pit	A/043			2	2014	\$1,039.34	5
SMH000032	Sewer Pit	A/044			2	2014	\$950.65	5
SMH000026	Sewer Pit	A/045			2	2014	\$1,039.34	5
SMH000025	Sewer Pit	A/047			2	2014	\$950.65	5
SMH000537	Sewer Pit	A/048			2	2014	\$1,039.34	5
SMH000538	Sewer Pit	A/049			2	2014	\$1,039.34	5
SMH000329	Sewer Pit	A/050			2	2014	\$1,039.34	5
SMH000024	Sewer Pit	A/052			2	2014	\$1,039.34	5
SMH000579	Sewer Pit	A/053			2	2014	\$785.85	5
SMH000023	Sewer Pit	A/054			2	2014	\$950.65	5
SMH000022	Sewer Pit	A/055			2	2014	\$950.65	5
SMH000021	Sewer Pit	A/056			2	2014	\$950.65	5
SMH000020	Sewer Pit	A/057			2	2014	\$1,039.34	5
SMH000539	Sewer Pit	A/058			2	2014	\$1,039.34	5
SMH000540	Sewer Pit	A/059			2	2014	\$1,039.34	5
SMH000541	Sewer Pit	A/060			2	2014	\$1,039.34	5
SMH000049	Sewer Pit	B/001			2	2014	\$1,630.01	5
SMH000048	Sewer Pit	B/002			2	2014	\$2,023.57	5
SMH000554	Sewer Pit	B/002A			2	2014	\$1,675.61	5

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	Narra	indera SC >> Renew	ai Fiogia	in (3e	.wei_31_1	/ 1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSECTE	cutegory	Asset Hume	moni		(Years)	Year	(\$)	(Years)
SMH000555	Sewer Pit	B/003			2	2014	\$1,039.34	5
SMH000050	Sewer Pit	B/004			2	2014	\$1,310.57	5
SMH000556	Sewer Pit	B/005			2	2014	\$1,039.34	5
SMH000557	Sewer Pit	B/006			2	2014	\$950.65	5
SMH000053	Sewer Pit	B/007			2	2014	\$1,004.23	6
SMH000052	Sewer Pit	B/008			2	2014	\$950.65	5
SMH000051	Sewer Pit	B/009			2	2014	\$950.65	5
SMH000054	Sewer Pit	B/010			2	2014	\$950.65	5
SMH000055	Sewer Pit	B/012			2	2014	\$950.65	5
SMH000067	Sewer Pit	B/013			2	2014	\$950.65	5
SMH000066	Sewer Pit	B/014			2	2014	\$950.65	5
SMH000065	Sewer Pit	B/015			2	2014	\$950.65	5
SMH000064	Sewer Pit	B/016			2	2014	\$1,039.34	5
SMH000062	Sewer Pit	B/017			2	2014	\$1,039.34	5
SMH000063	Sewer Pit	B/018			2	2014	\$1,039.34	5
SMH000083	Sewer Pit	B/019			2	2014	\$1,039.34	5
SMH000084	Sewer Pit	B/020			2	2014	\$2,143.37	5
SMH000085	Sewer Pit	B/021			2	2014	\$1,504.54	5
SMH000059	Sewer Pit	B/022			2	2014	\$950.65	5
SMH000058	Sewer Pit	B/023			2	2014	\$1,039.34	5
SMH000567	Sewer Pit	B/024			2	2014	\$950.65	5
SMH000559	Sewer Pit	B/025			2	2014	\$950.65	5
SMH000566	Sewer Pit	B/027			2	2014	\$1,039.34	5
SMH000075	Sewer Pit	B/028			2	2014	\$950.65	5
SMH000074	Sewer Pit	B/029			2	2014	\$1,039.34	5
SMH000073	Sewer Pit	B/030			2	2014	\$950.65	5
SMH000072	Sewer Pit	B/031			2	2014	\$950.65	5
SMH000071	Sewer Pit	B/032			2	2014	\$1,039.34	5
SMH000068	Sewer Pit	B/035			2	2014	\$1,858.16	5
SMH000070	Sewer Pit	B/036			2	2014	\$1,356.22	5
SMH000069	Sewer Pit	B/037			2	2014	\$1,270.69	5
SMH000561	Sewer Pit	B/038			2	2014	\$785.85	5
SMH000060	Sewer Pit	B/039			2	2014	\$1,039.34	5
SMH000061	Sewer Pit	B/040			2	2014	\$1,039.34	5
SMH000560	Sewer Pit	B/041			2	2014	\$785.85	5
SMH000079	Sewer Pit	B/042			2	2014	\$1,039.34	5
SMH000080	Sewer Pit	B/043			2	2014	\$621.08	5
SMH000081	Sewer Pit	B/044			2	2014	\$950.65	5
SMH000082	Sewer Pit	B/051			2	2014	\$950.65	5
SMH000057	Sewer Pit	B/052			2	2014	\$950.65	5
SMH000300	Sewer Pit	C/001			2	2014	\$1,039.34	5

	Nanc	indera SC >> Kenew	arriogra	in (30				
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000299	Sewer Pit	C/002			2	2014	\$950.65	5
SMH000298	Sewer Pit	C/003			2	2014	\$1,424.67	5
SMH000462	Sewer Pit	C/004			2	2014	\$1,039.34	5
SMH000461	Sewer Pit	C/005			2	2014	\$1,584.39	5
SMH000458	Sewer Pit	C/006			2	2014	\$1,464.60	5
SMH000456	Sewer Pit	C/007			2	2014	\$1,413.24	5
SMH000304	Sewer Pit	C/008			2	2014	\$1,584.39	5
SMH000452	Sewer Pit	C/009			2	2014	\$1,287.75	5
SMH000280	Sewer Pit	C/010			2	2014	\$1,453.19	5
SMH000283	Sewer Pit	C/011			2	2014	\$1,778.28	5
SMH000284	Sewer Pit	C/012			2	2014	\$1,418.99	5
SMH000285	Sewer Pit	C/013			2	2014	\$1,989.37	5
SMH000286	Sewer Pit	C/014			2	2014	\$2,611.06	5
SMH000463	Sewer Pit	C/015			2	2014	\$1,533.03	5
SMH000371	Sewer Pit	C/016			2	2014	\$2,645.28	5
SMH000370	Sewer Pit	C/017			2	2014	\$2,616.74	5
SMH000268	Sewer Pit	C/018			2	2014	\$2,411.40	5
SMH000271	Sewer Pit	C/018A			2	2014	\$621.08	5
SMH000267	Sewer Pit	C/019			2	2014	\$2,206.06	5
SMH000372	Sewer Pit	C/020			2	2014	\$2,342.95	5
SMH000296	Sewer Pit	C/021			2	2014	\$950.65	5
SMH000295	Sewer Pit	C/022			2	2014	\$1,039.34	5
SMH000294	Sewer Pit	C/023			2	2014	\$1,039.34	5
SMH000302	Sewer Pit	C/024			2	2014	\$1,039.34	5
SMH000301	Sewer Pit	C/025			2	2014	\$1,039.34	5
SMH000293	Sewer Pit	C/026			2	2014	\$1,470.26	5
SMH000292	Sewer Pit	C/027			2	2014	\$1,390.43	5
SMH000291	Sewer Pit	C/028			2	2014	\$1,436.07	5
SMH000459	Sewer Pit	C/029			2	2014	\$1,812.52	5
SMH000457	Sewer Pit	C/030			2	2014	\$1,390.43	5
SMH000455	Sewer Pit	C/031			2	2014	\$1,270.69	5
SMH000454	Sewer Pit	C/032			2	2014	\$1,039.34	5
SMH000303	Sewer Pit	C/033			2	2014	\$1,430.37	5
SMH000453	Sewer Pit	C/034			2	2014	\$1,390.43	5
SMH000305	Sewer Pit	C/035			2	2014	\$950.65	5
SMH000307	Sewer Pit	C/036			2	2014	\$950.65	5
SMH000306	Sewer Pit	C/037			2	2014	\$950.65	5
SMH000279	Sewer Pit	C/038			2	2014	\$1,823.94	5
SMH000451	Sewer Pit	C/039			2	2014	\$1,772.59	5
SMH000450	Sewer Pit	C/040			2	2014	\$1,464.60	5
SMH000449	Sewer Pit	C/041			2	2014	\$1,327.71	5

	Nulle	indera SC >> Kenew				-)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000282	Sewer Pit	C/043			2	2014	\$1,039.34	5
SMH000281	Sewer Pit	C/044			2	2014	\$1,401.86	5
SMH000289	Sewer Pit	C/045			2	2014	\$1,039.34	5
SMH000446	Sewer Pit	C/046			2	2014	\$1,361.91	5
SMH000288	Sewer Pit	C/046A			2	2014	\$1,361.91	5
SMH000447	Sewer Pit	C/047			2	2014	\$1,812.52	5
SMH000287	Sewer Pit	C/048			2	2014	\$1,726.95	5
SMH000290	Sewer Pit	C/050			2	2014	\$1,350.52	5
SMH000311	Sewer Pit	C/051			2	2014	\$1,039.34	5
SMH000367	Sewer Pit	C/054			2	2014	\$1,898.07	5
SMH000369	Sewer Pit	C/055			2	2014	\$2,017.88	5
SMH000368	Sewer Pit	C/056			2	2014	\$1,344.83	5
SMH000272	Sewer Pit	C/057			2	2014	\$1,039.34	5
SMH000366	Sewer Pit	C/058			2	2014	\$950.65	5
SMH000274	Sewer Pit	C/059			2	2014	\$950.65	5
SMH000273	Sewer Pit	C/060			2	2014	\$1,344.83	5
SMH000390	Sewer Pit	C/061			2	2014	\$1,039.34	5
SMH000389	Sewer Pit	C/062			2	2014	\$1,367.66	5
SMH000388	Sewer Pit	C/063			2	2014	\$1,601.50	5
SMH000387	Sewer Pit	C/064			2	2014	\$950.65	5
SMH000270	Sewer Pit	C/065			2	2014	\$1,039.34	5
SMH000386	Sewer Pit	C/066			2	2014	\$1,039.34	5
SMH000269	Sewer Pit	C/067			2	2014	\$1,039.34	5
SMH000297	Sewer Pit	C/068			2	2014	\$950.65	5
SMH000460	Sewer Pit	C/082			2	2014	\$950.65	5
SMH000392	Sewer Pit	D/002			2	2014	\$1,310.57	5
SMH000393	Sewer Pit	D/003			2	2014	\$1,039.34	5
SMH000264	Sewer Pit	D/004			2	2014	\$1,039.34	5
SMH000398	Sewer Pit	D/005			2	2014	\$1,039.34	5
SMH000263	Sewer Pit	D/006			2	2014	\$1,039.34	5
SMH000399	Sewer Pit	D/007			2	2014	\$950.65	5
SMH000262	Sewer Pit	D/008			2	2014	\$950.65	5
SMH000400	Sewer Pit	D/009			2	2014	\$1,327.71	5
SMH000253	Sewer Pit	D/010			2	2014	\$1,039.34	5
SMH000254	Sewer Pit	D/011			2	2014	\$1,039.34	5
SMH000255	Sewer Pit	D/012			2	2014	\$950.65	5
SMH000259	Sewer Pit	D/013			2	2014	\$1,039.34	5
SMH000251	Sewer Pit	D/014			2	2014	\$1,039.34	5
SMH000252	Sewer Pit	D/014A			2	2014	\$621.08	5
SMH000377	Sewer Pit	D/015			2	2014	\$1,424.67	5
SMH000248	Sewer Pit	D/016			2	2014	\$1,316.31	5

	Nalla	indera SC >> Renew	arriogia	m (se	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000378	Sewer Pit	D/017			2	2014	\$2,126.24	5
SMH000250	Sewer Pit	D/018			2	2014	\$1,943.71	5
SMH000265	Sewer Pit	D/021			2	2014	\$1,039.34	5
SMH000397	Sewer Pit	D/023			2	2014	\$1,039.34	5
SMH000111	Sewer Pit	D/024			2	2014	\$1,039.34	5
SMH000401	Sewer Pit	D/025			2	2014	\$1,039.34	5
SMH000384	Sewer Pit	D/027			2	2014	\$1,039.34	5
SMH000385	Sewer Pit	D/028			2	2014	\$1,039.34	5
SMH000266	Sewer Pit	D/029			2	2014	\$1,039.34	5
SMH000277	Sewer Pit	D/030			2	2014	\$1,039.34	5
SMH000373	Sewer Pit	D/030			2	2014	\$1,039.34	5
SMH000256	Sewer Pit	D/031			2	2014	\$1,555.86	5
SMH000257	Sewer Pit	D/032			2	2014	\$1,039.34	5
SMH000376	Sewer Pit	D/033			2	2014	\$1,039.34	5
SMH000258	Sewer Pit	D/034			2	2014	\$1,039.34	5
SMH000276	Sewer Pit	D/035			2	2014	\$785.85	5
SMH000275	Sewer Pit	D/036			2	2014	\$950.65	5
SMH000314	Sewer Pit	D/037			2	2014	\$1,039.34	5
SMH000278	Sewer Pit	D/038			2	2014	\$950.65	5
SMH000381	Sewer Pit	D/041			2	2014	\$1,039.34	5
SMH000260	Sewer Pit	D/042			2	2014	\$1,039.34	5
SMH000379	Sewer Pit	D/043			2	2014	\$1,039.34	5
SMH000261	Sewer Pit	D/044			2	2014	\$1,039.34	5
SMH000375	Sewer Pit	D/045			2	2014	\$950.65	5
SMH000249	Sewer Pit	D/046			2	2014	\$1,039.34	5
SMH000465	Sewer Pit	DE031			2	2014	\$785.85	5
SMH000448	Sewer Pit	DE035			2	2014	\$950.65	5
SMH000431	Sewer Pit	DE105			2	2014	\$1,039.34	5
SMH000425	Sewer Pit	DE106			2	2014	\$1,039.34	5
SMH000530	Sewer Pit	DE110			2	2014	\$1,039.34	5
SMH000395	Sewer Pit	DE112			2	2014	\$1,039.34	5
SMH000046	Sewer Pit	DE113			2	2014	\$1,039.34	5
SMH000047	Sewer Pit	DE114			2	2014	\$1,039.34	5
SMH000356	Sewer Pit	DE119			2	2014	\$1,039.34	5
SMH000354	Sewer Pit	DE120			2	2014	\$1,039.34	5
SMH000582	Sewer Pit	DE121			2	2014	\$1,039.34	5
SMH000591	Sewer Pit	DE123			2	2014	\$1,039.34	5
SMH000342	Sewer Pit	DE132			2	2014	\$950.65	5
SMH000558	Sewer Pit	DE19			2	2014	\$950.65	5
SMH000565	Sewer Pit	DE24			2	2014	\$950.65	5
SMH000590	Sewer Pit	DE37			2	2014	\$950.65	5

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	naffa	indera SC >> Renew	ai Progra	ni (3e	wer_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000374	Sewer Pit	DE52			2	2014	\$950.65	5
SMH000383	Sewer Pit	DE54			2	2014	\$1,039.34	5
SMH000382	Sewer Pit	DE55			2	2014	\$1,039.34	5
SMH000380	Sewer Pit	DE56			2	2014	\$950.65	5
SMH000396	Sewer Pit	DE58			2	2014	\$1,039.34	5
SMH000394	Sewer Pit	DE59			2	2014	\$1,039.34	5
SMH000535	Sewer Pit	DE6			2	2014	\$1,039.34	5
SMH000391	Sewer Pit	DE60			2	2014	\$1,039.34	5
SMH000474	Sewer Pit	DE66			2	2014	\$1,004.23	6
SMH000580	Sewer Pit	DE9			2	2014	\$950.65	5
SMH000245	Sewer Pit	E/001			2	2014	\$1,339.09	5
SMH000244	Sewer Pit	E/002			2	2014	\$1,852.44	5
SMH000243	Sewer Pit	E/003			2	2014	\$1,039.34	5
SMH000466	Sewer Pit	E/004			2	2014	\$1,527.34	5
SMH000235	Sewer Pit	E/005			2	2014	\$1,436.07	5
SMH000236	Sewer Pit	E/006			2	2014	\$1,039.34	5
SMH000237	Sewer Pit	E/007			2	2014	\$1,304.86	5
SMH000238	Sewer Pit	E/008			2	2014	\$1,470.26	5
SMH000239	Sewer Pit	E/009			2	2014	\$1,704.17	5
SMH000240	Sewer Pit	E/010			2	2014	\$1,039.34	5
SMH000241	Sewer Pit	E/011			2	2014	\$1,039.34	5
SMH000242	Sewer Pit	E/012			2	2014	\$1,618.60	5
SMH000364	Sewer Pit	E/013			2	2014	\$2,057.77	5
SMH000363	Sewer Pit	E/014			2	2014	\$1,772.59	5
SMH000362	Sewer Pit	E/015			2	2014	\$1,544.42	5
SMH000361	Sewer Pit	E/016			2	2014	\$1,390.43	5
SMH000360	Sewer Pit	E/017			2	2014	\$950.65	5
SMH000359	Sewer Pit	E/018			2	2014	\$1,039.34	5
SMH000247	Sewer Pit	E/018A			2	2014	\$1,039.34	5
SMH000246	Sewer Pit	E/019			2	2014	\$1,039.34	5
SMH000358	Sewer Pit	E/020			2	2014	\$1,039.34	5
SMH000357	Sewer Pit	E/021			2	2014	\$1,039.34	5
SMH000365	Sewer Pit	E/022			2	2014	\$785.85	5
SMH000234	Sewer Pit	E/023			2	2014	\$1,039.34	5
SMH000587	Sewer Pit	E/024			2	2014	\$1,704.17	5
SMH000586	Sewer Pit	E/025			2	2014	\$1,039.34	5
SMH000231	Sewer Pit	E/026			2	2014	\$1,675.61	5
SMH000585	Sewer Pit	E/027			2	2014	\$1,039.34	5
SMH000584	Sewer Pit	E/028			2	2014	\$785.85	5
SMH000583	Sewer Pit	E/029			2	2014	\$785.85	5
SMH000164	Sewer Pit	E/030			2	2014	\$785.85	5

	Narra	indera SC >> Kenew	01110510	111 (30		/ =)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSet ID	Category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000165	Sewer Pit	E/031			2	2014	\$1,039.34	5
SMH000183	Sewer Pit	F/001			2	2014	\$1,004.23	6
SMH000182	Sewer Pit	F/002			2	2014	\$1,097.94	6
SMH000181	Sewer Pit	F/003			2	2014	\$1,004.23	6
SMH000181	Sewer Pit	F/004			2	2014	\$1,004.23	6
SMH000178	Sewer Pit	F/005			2	2014	\$1,004.23	6
SMH000472	Sewer Pit	F/006			2	2014	\$1,097.94	6
SMH000214	Sewer Pit	F/008			2	2014	\$1,039.34 \$1,039.34	5
SMH000471	Sewer Pit	F/009			2	2014	\$1,039.34 \$1,039.34	5
SMH000471	Sewer Pit	F/010			2	2014	\$1,039.34 \$1,039.34	5
SMH000469	Sewer Pit	F/011			2	2014	\$1,039.34 \$1,039.34	5
SMH000409	Sewer Pit	F/012			2	2014	\$1,039.34 \$1,039.34	5
SMH000213	Sewer Pit	F/012			2	2014	\$785.85	5
SMH000211	Sewer Pit	F/013			2	2014	\$1,487.41	5
SMH000212	Sewer Pit	F/014			2	2014	\$1,039.34	5
SMH000488	Sewer Pit	F/015			2	2014	\$1,039.34 \$1,430.37	5
SMH000480	Sewer Pit	F/010 F/017			2	2014	\$1,430.37 \$1,039.34	5
SMH000210	Sewer Pit	F/017 F/018			2	2014	\$1,039.34 \$1,039.34	5
		-			2			
SMH000208	Sewer Pit	F/019				2014	\$3,580.66	5
SMH000207	Sewer Pit	F/020			2	2014	\$3,643.42	5
SMH000481	Sewer Pit	F/021			2	2014	\$1,039.34	5
SMH000173	Sewer Pit	F/022			2	2014	\$1,039.34	5
SMH000485	Sewer Pit	F/023			2	2014	\$1,039.34	5
SMH000174	Sewer Pit	F/024			2	2014	\$1,039.34	5
SMH000486	Sewer Pit	F/025			2	2014	\$1,458.91	5
SMH000510	Sewer Pit	F/026			2	2014	\$1,039.34	5
SMH000232	Sewer Pit	F/027			2	2014	\$1,772.59	5
SMH000233	Sewer Pit	F/028			2	2014	\$1,732.69	5
SMH000512	Sewer Pit	F/029			2	2014	\$950.65	5
SMH000513	Sewer Pit	F/030			2	2014	\$1,572.94	5
SMH000515	Sewer Pit	F/031			2	2014	\$1,039.34	5
SMH000171	Sewer Pit	F/032			2	2014	\$1,641.40	5
SMH000170	Sewer Pit	F/033			2	2014	\$950.65	5
SMH000518	Sewer Pit	F/034			2	2014	\$1,039.34	5
SMH000168	Sewer Pit	F/035			2	2014	\$785.85	5
SMH000167	Sewer Pit	F/036			2	2014	\$1,039.34	5
SMH000166	Sewer Pit	F/037			2	2014	\$1,039.34	5
SMH000519	Sewer Pit	F/038			2	2014	\$950.65	5
SMH000520	Sewer Pit	F/039			2	2014	\$1,039.34	5
SMH000152	Sewer Pit	F/040			2	2014	\$785.85	5
SMH000179	Sewer Pit	F/042			2	2014	\$1,097.94	6

		indera SC >> Kenew	arriogra					
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Name	moni	10	(Years)	Year	(\$)	(Years)
SMH000176	Sewer Pit	F/043			2	2014	\$1,004.23	6
SMH000473	Sewer Pit	F/044			2	2014	\$1,004.23	6
SMH000467	Sewer Pit	F/045			2	2014	\$1,039.34	5
SMH000479	Sewer Pit	F/046			2	2014	\$1,039.34	5
SMH000226	Sewer Pit	F/047			2	2014	\$1,276.39	5
SMH000225	Sewer Pit	F/048			2	2014	\$1,039.34	5
SMH000224	Sewer Pit	F/049			2	2014	\$1,339.09	5
SMH000475	Sewer Pit	F/050			2	2014	\$1,039.34	5
SMH000222	Sewer Pit	F/051			2	2014	\$1,039.34	5
SMH000221	Sewer Pit	F/052			2	2014	\$1,039.34	5
SMH000220	Sewer Pit	F/053			2	2014	\$1,039.34	5
SMH000219	Sewer Pit	F/054			2	2014	\$950.65	5
SMH000477	Sewer Pit	F/055			2	2014	\$950.65	5
SMH000215	Sewer Pit	F/056			2	2014	\$950.65	5
SMH000223	Sewer Pit	F/057			2	2014	\$1,039.34	5
SMH000476	Sewer Pit	F/058			2	2014	\$1,039.34	5
SMH000309	Sewer Pit	F/059			2	2014	\$1,039.34	5
SMH000308	Sewer Pit	F/060			2	2014	\$1,039.34	5
SMH000218	Sewer Pit	F/061			2	2014	\$950.65	5
SMH000217	Sewer Pit	F/062			2	2014	\$950.65	5
SMH000216	Sewer Pit	F/063			2	2014	\$1,039.34	5
SMH000478	Sewer Pit	F/064			2	2014	\$1,039.34	5
SMH000209	Sewer Pit	F/065			2	2014	\$950.65	5
SMH000483	Sewer Pit	F/067			2	2014	\$1,039.34	5
SMH000482	Sewer Pit	F/068			2	2014	\$1,039.34	5
SMH000484	Sewer Pit	F/069			2	2014	\$1,039.34	5
SMH000589	Sewer Pit	F/070			2	2014	\$950.65	5
SMH000588	Sewer Pit	F/071			2	2014	\$1,595.75	5
SMH000200	Sewer Pit	F/072			2	2014	\$1,039.34	5
SMH000201	Sewer Pit	F/073			2	2014	\$1,039.34	5
SMH000199	Sewer Pit	F/074			2	2014	\$1,039.34	5
SMH000198	Sewer Pit	F/075			2	2014	\$1,039.34	5
SMH000197	Sewer Pit	F/076			2	2014	\$950.65	5
SMH000203	Sewer Pit	F/077			2	2014	\$950.65	5
SMH000205	Sewer Pit	F/078			2	2014	\$1,270.69	5
SMH000204	Sewer Pit	F/079			2	2014	\$1,039.34	5
SMH000202	Sewer Pit	F/080			2	2014	\$1,039.34	5
SMH000196	Sewer Pit	F/081			2	2014	\$1,039.34	5
SMH000194	Sewer Pit	F/081A			2	2014	\$1,039.34	5
SMH000184	Sewer Pit	F/082			2	2014	\$1,004.23	6
SMH000490	Sewer Pit	F/083			2	2014	\$1,097.94	6

		indera SC >> Kenew	1110510	in (96				
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Nume	monn	10	(Years)	Year	(\$)	(Years)
SMH000185	Sewer Pit	F/084			2	2014	\$1,004.23	6
SMH000186	Sewer Pit	F/085			2	2014	\$1,004.23	6
SMH000489	Sewer Pit	F/086			2	2014	\$1,039.34	5
SMH000188	Sewer Pit	F/087			2	2014	\$1,039.34	5
SMH000189	Sewer Pit	F/088			2	2014	\$2,571.12	5
SMH000488	Sewer Pit	F/089			2	2014	\$1,949.41	5
SMH000487	Sewer Pit	F/090			2	2014	\$1,039.34	5
SMH000195	Sewer Pit	F/091			2	2014	\$2,565.43	5
SMH000187	Sewer Pit	F/092			2	2014	\$950.65	5
SMH000500	Sewer Pit	F/093			2	2014	\$950.65	5
SMH000499	Sewer Pit	F/094			2	2014	\$1,039.34	5
SMH000498	Sewer Pit	F/095			2	2014	\$2,154.74	5
SMH000497	Sewer Pit	F/095A			2	2014	\$2,097.73	5
SMH000190	Sewer Pit	F/097			2	2014	\$1,744.07	5
SMH000191	Sewer Pit	F/098			2	2014	\$785.85	5
SMH000191	Sewer Pit	F/099			2	2014	\$1,715.57	5
SMH000192	Sewer Pit	F/100			2	2014	\$950.65	5
SMH000516	Sewer Pit	F/102			2	2014	\$950.65	5
SMH000169	Sewer Pit	F/102			2	2014	\$950.65	5
SMH000103	Sewer Pit	F/103			2	2014	\$950.65	5
SMH000514	Sewer Pit	F/105			2	2014	\$1,039.34	5
SMH000314	Sewer Pit	F/105			2	2014	\$1,039.34 \$1,039.34	5
SMH000172	Sewer Pit	F/107			2	2014	\$1,039.34 \$1,039.34	5
SMH000511	Sewer Pit	F/107			2	2014	\$1,039.34 \$950.65	5
SMH000501	Sewer Pit	F/108			2			5
SMH000502	Sewer Pit	-			2	2014 2014	\$950.65	5
		F/116			-		\$950.65 \$950.65	0
SMH000504	Sewer Pit	F/117			2	2014	\$950.65	5
SMH000227	Sewer Pit	G/001			2	2014	\$1,039.34	5
SMH000492	Sewer Pit	G/002			2	2014	\$950.65	5
SMH000493	Sewer Pit	G/003			2	2014	\$1,039.34	5
SMH000494	Sewer Pit	G/004			2	2014	\$1,039.34	5
SMH000230	Sewer Pit	G/005			2	2014	\$1,039.34	5
SMH000229	Sewer Pit	G/006			2	2014	\$950.65	5
SMH000495	Sewer Pit	G/007			2	2014	\$785.85	5
SMH000228	Sewer Pit	G/008			2	2014	\$785.85	5
SMH000175	Sewer Pit	G/009			2	2014	\$621.08	5
SMH000045	Sewer Pit	H/002			2	2014	\$1,039.34	5
SMH000044	Sewer Pit	H/003			2	2014	\$950.65	5
SMH000042	Sewer Pit	H/004			2	2014	\$950.65	5
SMH000531	Sewer Pit	H/005			2	2014	\$1,039.34	5
SMH000041	Sewer Pit	H/006			2	2014	\$950.65	5

	- Nalla	indera SC >> Kenew		iii (30	wei_9±_1			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
7.0000112	eurogery	,			(Years)	Year	(\$)	(Years)
SMH000039	Sewer Pit	H/006A			2	2014	\$1,039.34	5
SMH000040	Sewer Pit	H/006B			2	2014	\$1,039.34	5
SMH000038	Sewer Pit	H/007			2	2014	\$1,039.34	5
SMH000037	Sewer Pit	H/008			2	2014	\$1,464.60	5
SMH000402	Sewer Pit	H/009			2	2014	\$1,039.34	5
SMH000104	Sewer Pit	H/010			2	2014	\$950.65	5
SMH000405	Sewer Pit	H/011			2	2014	\$1,039.34	5
SMH000105	Sewer Pit	H/012			2	2014	\$1,384.74	5
SMH000106	Sewer Pit	H/013			2	2014	\$1,795.40	5
SMH000107	Sewer Pit	H/014			2	2014	\$950.65	5
SMH000406	Sewer Pit	H/015			2	2014	\$950.65	5
SMH000108	Sewer Pit	H/016			2	2014	\$950.65	5
SMH000109	Sewer Pit	H/017			2	2014	\$1,039.34	5
SMH000110	Sewer Pit	H/018			2	2014	\$1,039.34	5
SMH000409	Sewer Pit	H/019			2	2014	\$1,339.09	5
SMH000043	Sewer Pit	H/022			2	2014	\$2,804.95	5
SMH000089	Sewer Pit	H/024			2	2014	\$1,572.94	5
SMH000090	Sewer Pit	H/025			2	2014	\$1,920.90	5
SMH000087	Sewer Pit	H/026			2	2014	\$1,039.34	5
SMH000086	Sewer Pit	H/027			2	2014	\$785.85	5
SMH000444	Sewer Pit	H/028			2	2014	\$1,327.71	5
SMH000443	Sewer Pit	H/029			2	2014	\$1,039.34	5
SMH000091	Sewer Pit	H/030			2	2014	\$1,039.34	5
SMH000092	Sewer Pit	H/031			2	2014	\$1,039.34	5
SMH000438	Sewer Pit	H/032			2	2014	\$1,755.52	5
SMH000428	Sewer Pit	H/033			2	2014	\$1,972.24	5
SMH000422	Sewer Pit	H/034			2	2014	\$1,858.16	5
SMH000410	Sewer Pit	H/037			2	2014	\$1,276.39	5
SMH000088	Sewer Pit	H/038			2	2014	\$1,424.67	5
SMH000094	Sewer Pit	H/039			2	2014	\$950.65	5
SMH000093	Sewer Pit	H/040			2	2014	\$1,515.91	5
SMH000445	Sewer Pit	H/041			2	2014	\$1,624.27	5
SMH000435	Sewer Pit	H/042			2	2014	\$950.65	5
SMH000436	Sewer Pit	H/043			2	2014	\$950.65	5
SMH000095	Sewer Pit	H/044			2	2014	\$1,039.34	5
SMH000437	Sewer Pit	H/044A			2	2014	\$1,732.69	5
SMH000099	Sewer Pit	H/046			2	2014	\$1,039.34	5
SMH000098	Sewer Pit	H/047			2	2014	\$1,039.34	5
SMH000097	Sewer Pit	H/048			2	2014	\$1,863.87	5
SMH000442	Sewer Pit	H/049			2	2014	\$1,270.69	5
SMH000441	Sewer Pit	H/050			2	2014	\$1,413.24	5

	Ivaila	Indera SC >> Renew	ai Fiogra	111 (36	wei_51_	(<u>+</u>)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
Asset ID	Category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000439	Sewer Pit	H/051			2	2014	\$1,909.49	5
SMH000096	Sewer Pit	H/051A			2	2014	\$1,401.86	5
SMH000440	Sewer Pit	H/052			2	2014	\$1,578.69	5
SMH000432	Sewer Pit	H/053			2	2014	\$950.65	5
SMH000432	Sewer Pit	H/054			2	2014	\$1,039.34	5
SMH000100	Sewer Pit	H/054A			2	2014	\$1,039.34 \$1,039.34	5
SMH000429	Sewer Pit	H/055			2	2014	\$1,039.34	5
SMH000424	Sewer Pit	H/057			2	2014	\$1,039.34	5
SMH000423	Sewer Pit	H/057A			2	2014	\$1,515.91	5
SMH000418	Sewer Pit	H/058			2	2014	\$1,039.34	5
SMH000419	Sewer Pit	H/059			2	2014	\$1,504.54	5
SMH000419	Sewer Pit	H/060			2	2014	\$1,898.07	5
SMH000420	Sewer Pit	H/060A			2	2014	\$1,527.34	5
SMH000421	Sewer Pit	H/061			2	2014	\$1,039.34	5
SMH000103	Sewer Pit	H/062			2	2014	\$1,039.34 \$1,039.34	5
SMH000417	Sewer Pit	H/063			2	2014	\$1,039.34 \$1,039.34	5
SMH000417	Sewer Pit	H/064			2	2014	\$1,039.34 \$1,039.34	5
SMH000415	Sewer Pit	H/065			2	2014	\$1,039.34 \$1,039.34	5
SMH000413	Sewer Pit	H/065A			2	2014	\$1,039.34	5
SMH000414	Sewer Pit	H/066			2	2014	\$1,373.35	5
SMH000412 SMH000413	Sewer Pit	H/066A			2	2014	\$1,039.34	5
SMH000413	Sewer Pit	H/067A			2	2014	\$1,316.31	5
SMH000433	Sewer Pit	H/069			2	2014	\$1,039.34	5
SMH000434	Sewer Pit	H/070			2	2014	\$1,039.34	5
SMH000101	Sewer Pit	H/071			2	2014	\$1,039.34	5
SMH000113	Sewer Pit	J/001			2	2014	\$1,039.34	5
SMH000112	Sewer Pit	J/002			2	2014	\$1,039.34	5
SMH000114	Sewer Pit	J/003			2	2014	\$1,681.37	5
SMH000117	Sewer Pit	J/004			2	2014	\$1,430.37	5
SMH000120	Sewer Pit	J/005			2	2014	\$950.65	5
SMH000121	Sewer Pit	J/005A			2	2014	\$1,504.54	5
SMH000521	Sewer Pit	J/006			2	2014	\$1,039.34	5
SMH000132	Sewer Pit	J/007			2	2014	\$1,356.22	5
SMH000131	Sewer Pit	J/008			2	2014	\$1,732.69	5
SMH000128	Sewer Pit	J/009			2	2014	\$1,692.73	5
SMH000127	Sewer Pit	J/010			2	2014	\$2,462.74	5
SMH000126	Sewer Pit	J/011			2	2014	\$1,801.09	5
SMH000125	Sewer Pit	J/012			2	2014	\$1,806.85	5
SMH000123	Sewer Pit	J/012			2	2014	\$1,039.34	5
SMH000123	Sewer Pit	J/014			2	2014	\$1,039.34	5
SMH000122	Sewer Pit	J/014			2	2014	\$1,039.34	5
51111000122	Sewerrit	3, 013			2	2014	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5

		indera SC >> Renew	arrogra	11 (36	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000528	Sewer Pit	J/016			2	2014	\$621.08	5
SMH000141	Sewer Pit	J/017			2	2014	\$1,692.73	5
SMH000142	Sewer Pit	J/018			2	2014	\$1,039.34	5
SMH000149	Sewer Pit	J/020			2	2014	\$1,039.34	5
SMH000348	Sewer Pit	J/021			2	2014	\$1,572.94	5
SMH000115	Sewer Pit	J/022			2	2014	\$1,097.94	6
SMH000118	Sewer Pit	J/023			2	2014	\$950.65	5
SMH000130	Sewer Pit	J/024			2	2014	\$950.65	5
SMH000129	Sewer Pit	J/025			2	2014	\$1,039.34	5
SMH000581	Sewer Pit	J/026			2	2014	\$1,039.34	5
SMH000137	Sewer Pit	J/027			2	2014	\$1,039.34	5
SMH000523	Sewer Pit	J/029			2	2014	\$1,367.66	5
SMH000524	Sewer Pit	J/030			2	2014	\$1,039.34	5
SMH000133	Sewer Pit	J/031			2	2014	\$950.65	5
SMH000134	Sewer Pit	J/032			2	2014	\$950.65	5
SMH000525	Sewer Pit	J/033			2	2014	\$950.65	5
SMH000526	Sewer Pit	J/034			2	2014	\$1,039.34	5
SMH000522	Sewer Pit	J/035			2	2014	\$1,812.52	5
SMH000139	Sewer Pit	J/036			2	2014	\$950.65	5
SMH000140	Sewer Pit	J/037			2	2014	\$950.65	5
SMH000136	Sewer Pit	J/038			2	2014	\$1,039.34	5
SMH000135	Sewer Pit	J/039			2	2014	\$1,039.34	5
SMH000144	Sewer Pit	J/040			2	2014	\$1,039.34	5
SMH000143	Sewer Pit	J/041			2	2014	\$1,039.34	5
SMH000145	Sewer Pit	J/042			2	2014	\$1,039.34	5
SMH000351	Sewer Pit	J/043			2	2014	\$1,039.34	5
SMH000355	Sewer Pit	J/046			2	2014	\$1,039.34	5
SMH000147	Sewer Pit	J/048			2	2014	\$1,039.34	5
SMH000146	Sewer Pit	J/049			2	2014	\$950.65	5
SMH000353	Sewer Pit	J/050			2	2014	\$1,039.34	5
SMH000162	Sewer Pit	J/052			2	2014	\$950.65	5
SMH000341	Sewer Pit	J/053			2	2014	\$1,039.34	5
SMH000161	Sewer Pit	J/053A			2	2014	\$1,698.44	5
SMH000340	Sewer Pit	J/054			2	2014	\$785.85	5
SMH000339	Sewer Pit	J/055			2	2014	\$1,039.34	5
SMH000160	Sewer Pit	J/056			2	2014	\$621.08	5
SMH000338	Sewer Pit	J/057			2	2014	\$950.65	5
SMH000154	Sewer Pit	J/058			2	2014	\$1,039.34	5
SMH000343	Sewer Pit	J/059			2	2014	\$785.85	5
SMH000153	Sewer Pit	J/060			2	2014	\$1,396.17	5
SMH000344	Sewer Pit	J/061			2	2014	\$1,039.34	5

	Narr	andera SC >> Renewa	al Progra	m (Se	wer_S1_	V1)		
	Sub				Rem	Planned	Renewal	Usefu
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Year
SMH000345	Sewer Pit	J/062			2	2014	\$950.65	5
SMH000346	Sewer Pit	J/063			2	2014	\$1,618.60	5
SMH000347	Sewer Pit	J/064			2	2014	\$1,772.59	5
SMH000151	Sewer Pit	J/065			2	2014	\$1,039.34	5
SMH000150	Sewer Pit	J/066			2	2014	\$1,039.34	5
SMH000138	Sewer Pit	J/067			2	2014	\$1,039.34	5
SMH000527	Sewer Pit	L/001			2	2014	\$1,270.69	5
SMH000163	Sewer Pit	L/002			2	2014	\$1,493.08	5
						Subtotal	\$596,930.61	
SMH000177	Sewer Pit	F/007			3	2015	\$1,356.90	6
						Subtotal	\$1,356.90	
SNP000002/2	Plant and	TWYNAM LN 2			4	2016	\$51,813.20	8
SMH000529	Equipment Sewer Pit	H/020			4	2016	\$282.59	36
SMH000407	Sewer Pit	H/067			4	2010	\$282.55	36
SMH000349	Sewer Pit	J/019			4	2010	\$309.92	37
SMH000349	Sewer Pit	J/044			4	2010	\$309.92 \$242.59	37
SMH000350	Sewer Pit	K/002			4	2010	\$242.59 \$1,147.68	9
SMH000159	Sewer Pit	K/002 K/003			4	2010	\$1,147.68 \$1,147.68	9
SMH000158	Sewer Pit	K/003 K/004			4	2010	\$1,969.98	9
SMH000137	Sewer Pit	K/004 K/005			4	2010	\$1,909.98 \$1,049.73	9
SMH000330	Sewer Pit	K/005			4	2010	\$1,049.73 \$1,147.68	9
SMH000357	Sewer Pit	K/008 K/007			4	2016	\$1,147.68 \$1,147.68	9
SMH000155	Sewer Pit	K/010			4	2016	\$1,147.08	9
30000130	Sewer Pit	K/010			4	Subtotal	\$2,007.74	9
SNT000001/19	Plant and	AIRATION POND			5	2017	\$159,859.31	20
5111000001/15	Equipment				5	2017	Ş155,055.51	20
SNT000001/20	Plant and Equipment	AIRATION POND			5	2017	\$159,859.31	20
SNT000001/01	Plant and Equipment	GARDEN BED			5	2017	\$13,100.04	10
SMH000621	Sewer Pit	C/050A			5	2017	\$322.44	35
SMH000599	Sewer Pit	F/119			5	2017	\$294.95	35
SMH000426	Sewer Pit	H/035			5	2017	\$608.32	35
SMH000102	Sewer Pit	H/036			5	2017	\$443.73	35
SMH000411	Sewer Pit	H/066B			5	2017	\$507.47	35
SMH000604	Sewer Pit	IO			5	2017	\$192.65	35
SMH000605	Sewer Pit	J/021B			5	2017	\$322.44	35
SMH000352	Sewer Pit	J/042A			5	2017	\$322.44	35
SMH000148	Sewer Pit	J/044A			5	2017	\$322.44	35

	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
						Subtotal	\$336,155.54	
							4	
SNP000004/2	Plant and Equipment	AUDLEY ST 2			6	2018	\$30,281.68	11
SNM000495	Sewer Main	C/054-C/060			6	2018	\$1,701.09	70
SNM000493	Sewer Main	C/059-C/058			6	2018	\$1,030.73	70
SNM000494	Sewer Main	C/060-C/059			6	2018	\$1,373.34	70
SNM000514	Sewer Main	C/061-DE47			6	2018	\$1,576.47	70
SNM000513	Sewer Main	C/062-C/061			6	2018	\$2,559.07	70
SNM000308	Sewer Main	E/012-E/013			6	2018	\$4,168.39	70
SNM000307	Sewer Main	E/012-E/022			6	2018	\$3,609.45	70
SMH000320	Sewer Pit	A/078			6	2018	\$691.50	32
SMH000322	Sewer Pit	A/079			6	2018	\$599.50	32
SMH000321	Sewer Pit	A/080			6	2018	\$403.31	32
SMH000571	Sewer Pit	A/081			6	2018	\$403.31	32
SMH000316	Sewer Pit	A/082			6	2018	\$440.92	32
SMH000315	Sewer Pit	A/083			6	2018	\$440.92	32
SMH000570	Sewer Pit	A/084			6	2018	\$440.92	32
SMH000569	Sewer Pit	A/085			6	2018	\$440.92	32
SMH000568	Sewer Pit	A/086			6	2018	\$440.92	32
SMH000496	Sewer Pit	F/096			6	2018	\$3,149.61	12
SMH000491	Sewer Pit	F/101			6	2018	\$1,112.73	12
						Subtotal	\$54,864.78	
SNM000651	Sewer Main	H/024-H/025			7	2019	\$3,552.88	70
SNM000251	Sewer Main	H/026-H/025			7	2019	\$3,028.36	70
SNM000652	Sewer Main	H/026-H/038			7	2019	\$1,936.69	70
SNM000252	Sewer Main	H/027-H/026			7	2019	\$2,297.68	70
SNM000526	Sewer Main	H/038-DE98			7	2019	\$2,106.24	70
SMH000002	Sewer Pit	A/001			7	2019	\$952.97	15
SMH000004	Sewer Pit	A/004			7	2019	\$952.97	15
SMH000006	Sewer Pit	A/004A			7	2019	\$1,041.80	15
SMH000005	Sewer Pit	A/005			7	2019	\$952.97	15
SMH000007	Sewer Pit	A/006			7	2019	\$1,041.87	15
SMH000008	Sewer Pit	A/006A			7	2019	\$1,041.87	15
SMH000009	Sewer Pit	A/007			7	2019	\$1,041.87	15
SMH000010	Sewer Pit	A/008			7	2019	\$1,041.87	15
SMH000553	Sewer Pit	A/009			7	2019	\$952.97	15
SMH000331	Sewer Pit	A/010			7	2019	\$1,513.90	15
SMH000552	Sewer Pit	A/011			7	2019	\$1,436.07	5
SMH000332	Sewer Pit	A/012			7	2019	\$1,041.87	15

	Nalla	indera SC >> Renew	ai Piogia	iii (3e	wei_31_	/ 1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000333	Sewer Pit	A/013			7	2019	\$1,039.34	5
SMH000551	Sewer Pit	A/014			7	2019	\$1,441.77	5
SMH000550	Sewer Pit	A/015			7	2019	\$1,039.34	5
SMH000330	Sewer Pit	A/016			7	2019	\$1,039.34	5
SMH000549	Sewer Pit	A/017			7	2019	\$1,039.34	5
SMH000547	Sewer Pit	A/018			7	2019	\$1,039.34	5
SMH000548	Sewer Pit	A/019			7	2019	\$1,039.34	5
SMH000546	Sewer Pit	A/020			7	2019	\$1,039.34	5
SMH000545	Sewer Pit	A/021			7	2019	\$1,039.34	5
SMH000544	Sewer Pit	A/022			7	2019	\$1,039.34	5
SMH000543	Sewer Pit	A/023			7	2019	\$1,039.34	5
SMH000328	Sewer Pit	A/024			7	2019	\$1,068.10	14
SMH000014	Sewer Pit	A/025			7	2019	\$1,068.10	14
SMH000015	Sewer Pit	A/026			7	2019	\$976.98	14
SMH000016	Sewer Pit	A/027			7	2019	\$1,068.10	14
SMH000017	Sewer Pit	A/028			7	2019	\$4,781.82	14
SMH000018	Sewer Pit	A/029			7	2019	\$976.98	14
SMH000542	Sewer Pit	A/030			7	2019	\$1,039.34	5
SMH000031	Sewer Pit	A/032			7	2019	\$1,039.34	5
SMH000030	Sewer Pit	A/033			7	2019	\$1,039.34	5
SMH000534	Sewer Pit	A/034			7	2019	\$1,039.34	5
SMH000533	Sewer Pit	A/035			7	2019	\$1,316.31	5
SMH000028	Sewer Pit	A/036			7	2019	\$1,039.34	5
SMH000029	Sewer Pit	A/037			7	2019	\$2,799.25	5
SMH000027	Sewer Pit	A/038			7	2019	\$1,039.34	5
SMH000532	Sewer Pit	A/039			7	2019	\$1,039.34	5
SMH000036	Sewer Pit	A/040			7	2019	\$1,039.34	5
SMH000035	Sewer Pit	A/041			7	2019	\$785.85	5
SMH000034	Sewer Pit	A/042			7	2019	\$950.65	5
SMH000033	Sewer Pit	A/043			7	2019	\$1,039.34	5
SMH000032	Sewer Pit	A/044			7	2019	\$950.65	5
SMH000026	Sewer Pit	A/045			7	2019	\$1,039.34	5
SMH000025	Sewer Pit	A/047			7	2019	\$950.65	5
SMH000537	Sewer Pit	A/048			7	2019	\$1,039.34	5
SMH000538	Sewer Pit	A/049			7	2019	\$1,039.34	5
SMH000329	Sewer Pit	A/050			7	2019	\$1,039.34	5
SMH000024	Sewer Pit	A/052			7	2019	\$1,039.34	5
SMH000579	Sewer Pit	A/053			7	2019	\$785.85	5
SMH000023	Sewer Pit	A/054			7	2019	\$950.65	5
SMH000022	Sewer Pit	A/055			7	2019	\$950.65	5
SMH000021	Sewer Pit	A/056			7	2019	\$950.65	5

	Nalla	andera SC >> Renew	ai Fiogra	11 (36	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000020	Sewer Pit	A/057			7	2019	\$1,039.34	5
SMH000539	Sewer Pit	A/058			7	2019	\$1,039.34	5
SMH000540	Sewer Pit	A/059			7	2019	\$1,039.34	5
SMH000541	Sewer Pit	A/060			7	2019	\$1,039.34	5
SMH000577	Sewer Pit	A/066			7	2019	\$439.05	31
SMH000574	Sewer Pit	A/069			7	2019	\$509.87	29
SMH000325	Sewer Pit	A/070			7	2019	\$509.87	29
SMH000324	Sewer Pit	A/071			7	2019	\$509.87	29
SMH000323	Sewer Pit	A/072			7	2019	\$509.87	29
SMH000573	Sewer Pit	A/073			7	2019	\$509.87	29
SMH000572	Sewer Pit	A/074			7	2019	\$509.87	29
SMH000317	Sewer Pit	A/075			7	2019	\$509.87	29
SMH000318	Sewer Pit	A/076			7	2019	\$557.45	29
SMH000319	Sewer Pit	A/077			7	2019	\$1,152.59	29
SMH000049	Sewer Pit	B/001			7	2019	\$1,630.01	5
SMH000048	Sewer Pit	B/002			7	2019	\$2,023.57	5
SMH000554	Sewer Pit	B/002A			7	2019	\$1,675.61	5
SMH000555	Sewer Pit	B/003			7	2019	\$1,039.34	5
SMH000050	Sewer Pit	B/004			7	2019	\$1,310.57	5
SMH000556	Sewer Pit	B/005			7	2019	\$1,039.34	5
SMH000557	Sewer Pit	B/006			7	2019	\$950.65	5
SMH000052	Sewer Pit	B/008			7	2019	\$950.65	5
SMH000051	Sewer Pit	B/009			7	2019	\$950.65	5
SMH000054	Sewer Pit	B/010			7	2019	\$950.65	5
SMH000055	Sewer Pit	B/012			7	2019	\$950.65	5
SMH000067	Sewer Pit	B/013			7	2019	\$950.65	5
SMH000066	Sewer Pit	B/014			7	2019	\$950.65	5
SMH000065	Sewer Pit	B/015			7	2019	\$950.65	5
SMH000064	Sewer Pit	B/016			7	2019	\$1,039.34	5
SMH000062	Sewer Pit	B/017			7	2019	\$1,039.34	5
SMH000063	Sewer Pit	B/018			7	2019	\$1,039.34	5
SMH000083	Sewer Pit	B/019			7	2019	\$1,039.34	5
SMH000084	Sewer Pit	B/020			7	2019	\$2,143.37	5
SMH000085	Sewer Pit	B/021			7	2019	\$1,504.54	5
SMH000059	Sewer Pit	B/022			7	2019	\$950.65	5
SMH000058	Sewer Pit	B/023			7	2019	\$1,039.34	5
SMH000567	Sewer Pit	B/024			7	2019	\$950.65	5
SMH000559	Sewer Pit	B/025			7	2019	\$950.65	5
SMH000566	Sewer Pit	B/027			7	2019	\$1,039.34	5
SMH000075	Sewer Pit	B/028			7	2019	\$950.65	5
SMH000074	Sewer Pit	B/029			7	2019	\$1,039.34	5

	Narra	indera SC >> Kenew		in (30				
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000073	Sewer Pit	B/030			7	2019	\$950.65	5
SMH000072	Sewer Pit	B/031			, 7	2019	\$950.65 \$950.65	5
SMH000071	Sewer Pit	B/032			7	2019	\$1,039.34	5
SMH000068	Sewer Pit	B/035			7	2019	\$1,858.16	5
SMH000070	Sewer Pit	B/036			, 7	2019	\$1,356.22	5
SMH000069	Sewer Pit	B/037			, 7	2019	\$1,270.69	5
SMH000561	Sewer Pit	B/038			, 7	2019	\$785.85	5
SMH000060	Sewer Pit	B/039			, 7	2019	\$1,039.34	5
SMH000061	Sewer Pit	B/035 B/040			, 7	2019	\$1,039.34	5
SMH000560	Sewer Pit	B/040 B/041			, 7	2019	\$785.85	5
SMH000079	Sewer Pit	B/041 B/042			, 7	2019	\$1,039.34	5
SMH000080	Sewer Pit	B/042 B/043			, 7	2019	\$621.08	5
SMH000081	Sewer Pit	B/043 B/044			, 7	2019	\$950.65	5
SMH000081	Sewer Pit	B/044 B/051			, 7	2019	\$950.65 \$950.65	5
SMH000057	Sewer Pit	B/051 B/052			, 7	2019	\$950.65	5
SMH000300	Sewer Pit	C/001			, 7	2019	\$1,039.34	5
SMH000299	Sewer Pit	C/001			, 7	2019	\$950.65	5
SMH000298	Sewer Pit	C/002			, 7	2019	\$ <u>9</u> 50.05 \$1,424.67	5
SMH000258	Sewer Pit	C/003			, 7	2019	\$1,039.34	5
SMH000462	Sewer Pit	C/004			, 7	2019	\$1,584.39	5
SMH000451	Sewer Pit	C/005			, 7	2019	\$1,464.60	5
SMH000458	Sewer Pit	C/007			, 7	2019	\$1,404.00 \$1,413.24	5
SMH000430	Sewer Pit	C/008			, 7	2019	\$1,584.39	5
SMH000304 SMH000452	Sewer Pit	C/009			, 7	2019	\$1,384.39 \$1,287.75	5
SMH000432	Sewer Pit	C/010			, 7	2019	\$1,287.73 \$1,453.19	5
SMH000280	Sewer Pit	C/010 C/011			, 7	2019	\$1,433.19 \$1,778.28	5
SMH000283	Sewer Pit	C/011			7	2019	\$1,778.28 \$1,418.99	5
SMH000284	Sewer Pit	C/012 C/013			7	2019	\$1,989.37	
SMH000285		C/013 C/014			, 7			5
	Sewer Pit Sewer Pit	-			, 7	2019 2019	\$2,611.06	5
SMH000463	Sewer Pit	C/015			, 7		\$1,533.03	5
SMH000371 SMH000370	Sewer Pit	C/016 C/017			, 7	2019 2019	\$2,645.28 \$2,616.74	5
SMH000370 SMH000268	Sewer Pit	-			, 7			5 5
		C/018				2019	\$2,411.40 \$621.08	
SMH000271	Sewer Pit	C/018A			7	2019		5
SMH000267	Sewer Pit	C/019			7	2019	\$2,206.06	5
SMH000372	Sewer Pit	C/020			7 7	2019	\$2,342.95	5
SMH000296	Sewer Pit	C/021			7	2019	\$950.65	5
SMH000295	Sewer Pit	C/022			7	2019	\$1,039.34	5
SMH000294	Sewer Pit	C/023			7	2019	\$1,039.34	5
SMH000302	Sewer Pit	C/024			7	2019	\$1,039.34	5
SMH000301	Sewer Pit	C/025			7	2019	\$1,039.34	5

	Nulle	andera SC >> Renew		in (30				
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSET ID	category	Asset Nume	monn	10	(Years)	Year	(\$)	(Years)
SMH000293	Sewer Pit	C/026			7	2019	\$1,470.26	5
SMH000292	Sewer Pit	C/027			7	2019	\$1,390.43	5
SMH000291	Sewer Pit	C/028			7	2019	\$1,436.07	5
SMH000459	Sewer Pit	C/029			7	2019	\$1,812.52	5
SMH000457	Sewer Pit	C/030			7	2019	\$1,390.43	5
SMH000455	Sewer Pit	C/031			7	2019	\$1,270.69	5
SMH000454	Sewer Pit	C/032			7	2019	\$1,039.34	5
SMH000303	Sewer Pit	C/033			7	2019	\$1,430.37	5
SMH000453	Sewer Pit	C/034			7	2019	\$1,390.43	5
SMH000305	Sewer Pit	C/035			, 7	2019	\$950.65	5
SMH000307	Sewer Pit	C/036			, 7	2019	\$950.65	5
SMH000306	Sewer Pit	C/037			, 7	2019	\$950.65	5
SMH000279	Sewer Pit	C/038			, 7	2019	\$1,823.94	5
SMH000451	Sewer Pit	C/039			7	2019	\$1,772.59	5
SMH000450	Sewer Pit	C/040			, 7	2019	\$1,464.60	5
SMH000449	Sewer Pit	C/040			7	2019	\$1,327.71	5
SMH000282	Sewer Pit	C/041			7	2019	\$1,039.34	5
SMH000282	Sewer Pit	C/043			, 7	2019	\$1,401.86	5
SMH000281	Sewer Pit	C/044			, 7	2019	\$1,039.34	5
SMH000289 SMH000446	Sewer Pit	C/043 C/046			, 7			5
	Sewer Pit	-			, 7	2019	\$1,361.91	5
SMH000288		C/046A			7 7	2019	\$1,361.91	
SMH000447	Sewer Pit	C/047				2019	\$1,812.52	5
SMH000287	Sewer Pit	C/048			7	2019	\$1,726.95	5
SMH000290	Sewer Pit	C/050			7	2019	\$1,350.52	5
SMH000311	Sewer Pit	C/051			7	2019	\$1,039.34	5
SMH000367	Sewer Pit	C/054			7	2019	\$1,898.07	5
SMH000369	Sewer Pit	C/055			7	2019	\$2,017.88	5
SMH000368	Sewer Pit	C/056			7	2019	\$1,344.83	5
SMH000272	Sewer Pit	C/057			7	2019	\$1,039.34	5
SMH000366	Sewer Pit	C/058			7	2019	\$950.65	5
SMH000274	Sewer Pit	C/059			7	2019	\$950.65	5
SMH000273	Sewer Pit	C/060			7	2019	\$1,344.83	5
SMH000390	Sewer Pit	C/061			7	2019	\$1,039.34	5
SMH000389	Sewer Pit	C/062			7	2019	\$1,367.66	5
SMH000388	Sewer Pit	C/063			7	2019	\$1,601.50	5
SMH000387	Sewer Pit	C/064			7	2019	\$950.65	5
SMH000270	Sewer Pit	C/065			7	2019	\$1,039.34	5
SMH000386	Sewer Pit	C/066			7	2019	\$1,039.34	5
SMH000269	Sewer Pit	C/067			7	2019	\$1,039.34	5
SMH000297	Sewer Pit	C/068			7	2019	\$950.65	5
SMH000460	Sewer Pit	C/082			7	2019	\$950.65	5

		Indera SC >> Renew						
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
Asset iD	category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000392	Sewer Pit	D/002			7	2019	\$1,310.57	5
SMH000393	Sewer Pit	D/003			7	2019	\$1,039.34	5
SMH000264	Sewer Pit	D/004			, 7	2019	\$1,039.34	5
SMH000398	Sewer Pit	D/005			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000263	Sewer Pit	D/006			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000399	Sewer Pit	D/007			, 7	2019	\$950.65	5
SMH000262	Sewer Pit	D/008			, 7	2019	\$950.65	5
SMH000400	Sewer Pit	D/009			, 7	2019	\$1,327.71	5
SMH000253	Sewer Pit	D/005			, 7	2019	\$1,039.34	5
SMH000254	Sewer Pit	D/010 D/011			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000255	Sewer Pit	D/011			, 7	2019	\$950.65	5
SMH000259	Sewer Pit	D/012 D/013			, 7	2019	\$1,039.34	5
SMH000255	Sewer Pit	D/013 D/014			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000251	Sewer Pit	D/014 D/014A			, 7	2019	\$1,039.34 \$621.08	5
SMH000232	Sewer Pit	D/014A			, 7	2019	\$021.08 \$1,424.67	5
SMH000377	Sewer Pit	D/013			, 7	2019	\$1,424.07 \$1,316.31	5
SMH000248	Sewer Pit	D/010 D/017			, 7		\$2,126.24	5
SMH000378	Sewer Pit	D/017 D/018			, 7	2019 2019	\$2,120.24 \$1,943.71	5
SMH000250	Sewer Pit	D/018 D/021			, 7	2019	\$1,943.71 \$1,039.34	5
SMH000283	Sewer Pit	D/021			, 7	2019	\$1,039.34 \$1,039.34	5
					7 7			
SMH000111	Sewer Pit	D/024				2019	\$1,039.34	5
SMH000401	Sewer Pit	D/025			7 7	2019	\$1,039.34	5
SMH000384	Sewer Pit	D/027				2019	\$1,039.34	5
SMH000385	Sewer Pit	D/028			7	2019	\$1,039.34	5
SMH000266	Sewer Pit	D/029			7	2019	\$1,039.34	5
SMH000277	Sewer Pit	D/030			7	2019	\$1,039.34	5
SMH000373	Sewer Pit	D/030			7	2019	\$1,039.34	5
SMH000256	Sewer Pit	D/031			7	2019	\$1,555.86	5
SMH000257	Sewer Pit	D/032			7	2019	\$1,039.34	5
SMH000376	Sewer Pit	D/033			7	2019	\$1,039.34	5
SMH000258	Sewer Pit	D/034			7	2019	\$1,039.34	5
SMH000276	Sewer Pit	D/035			7	2019	\$785.85	5
SMH000275	Sewer Pit	D/036			7	2019	\$950.65	5
SMH000314	Sewer Pit	D/037			7	2019	\$1,039.34	5
SMH000278	Sewer Pit	D/038			7	2019	\$950.65	5
SMH000381	Sewer Pit	D/041			7	2019	\$1,039.34	5
SMH000260	Sewer Pit	D/042			7	2019	\$1,039.34	5
SMH000379	Sewer Pit	D/043			7	2019	\$1,039.34	5
SMH000261	Sewer Pit	D/044			7	2019	\$1,039.34	5
SMH000375	Sewer Pit	D/045			7	2019	\$950.65	5
SMH000249	Sewer Pit	D/046			7	2019	\$1,039.34	5

		indera SC >> Renew	arriogra	ni (36	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000465	Sewer Pit	DE031			7	2019	\$785.85	5
SMH000448	Sewer Pit	DE035			7	2019	\$950.65	5
SMH000431	Sewer Pit	DE105			7	2019	\$1,039.34	5
SMH000425	Sewer Pit	DE106			7	2019	\$1,039.34	5
SMH000530	Sewer Pit	DE110			7	2019	\$1,039.34	5
SMH000395	Sewer Pit	DE112			7	2019	\$1,039.34	5
SMH000046	Sewer Pit	DE113			7	2019	\$1,039.34	5
SMH000047	Sewer Pit	DE114			7	2019	\$1,039.34	5
SMH000356	Sewer Pit	DE119			7	2019	\$1,039.34	5
SMH000012	Sewer Pit	DE12			7	2019	\$439.05	31
SMH000354	Sewer Pit	DE120			7	2019	\$1,039.34	5
SMH000582	Sewer Pit	DE121			7	2019	\$1,039.34	5
SMH000591	Sewer Pit	DE123			7	2019	\$1,039.34	5
SMH000342	Sewer Pit	DE132			7	2019	\$950.65	5
SMH000558	Sewer Pit	DE19			7	2019	\$950.65	5
SMH000565	Sewer Pit	DE24			7	2019	\$950.65	5
SMH000590	Sewer Pit	DE37			7	2019	\$950.65	5
SMH000011	Sewer Pit	DE4			7	2019	\$787.78	15
SMH000374	Sewer Pit	DE52			7	2019	\$950.65	5
SMH000383	Sewer Pit	DE54			7	2019	\$1,039.34	5
SMH000382	Sewer Pit	DE55			7	2019	\$1,039.34	5
SMH000380	Sewer Pit	DE56			7	2019	\$950.65	5
SMH000396	Sewer Pit	DE58			7	2019	\$1,039.34	5
SMH000394	Sewer Pit	DE59			7	2019	\$1,039.34	5
SMH000535	Sewer Pit	DE6			7	2019	\$1,039.34	5
SMH000391	Sewer Pit	DE60			7	2019	\$1,039.34	5
SMH000580	Sewer Pit	DE9			7	2019	\$950.65	5
SMH000245	Sewer Pit	E/001			7	2019	\$1,339.09	5
SMH000244	Sewer Pit	E/002			7	2019	\$1,852.44	5
SMH000243	Sewer Pit	E/003			7	2019	\$1,039.34	5
SMH000466	Sewer Pit	E/004			7	2019	\$1,527.34	5
SMH000235	Sewer Pit	E/005			7	2019	\$1,436.07	5
SMH000236	Sewer Pit	E/006			7	2019	\$1,039.34	5
SMH000237	Sewer Pit	E/007			7	2019	\$1,304.86	5
SMH000238	Sewer Pit	E/008			7	2019	\$1,470.26	5
SMH000239	Sewer Pit	E/009			7	2019	\$1,704.17	5
SMH000240	Sewer Pit	E/010			7	2019	\$1,039.34	5
SMH000241	Sewer Pit	E/011			7	2019	\$1,039.34	5
SMH000242	Sewer Pit	E/012			7	2019	\$1,618.60	5
SMH000364	Sewer Pit	E/013			7	2019	\$2,057.77	5
SMH000363	Sewer Pit	E/014			7	2019	\$1,772.59	5

	Nalla	indera SC >> Renew	ai Filigia	ni (36	wei_31_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000362	Sewer Pit	E/015			7	2019	\$1,544.42	5
SMH000361	Sewer Pit	E/016			7	2019	\$1,390.43	5
SMH000360	Sewer Pit	E/017			7	2019	\$950.65	5
SMH000359	Sewer Pit	E/018			7	2019	\$1,039.34	5
SMH000247	Sewer Pit	E/018A			7	2019	\$1,039.34	5
SMH000246	Sewer Pit	E/019			7	2019	\$1,039.34	5
SMH000358	Sewer Pit	E/020			7	2019	\$1,039.34	5
SMH000357	Sewer Pit	E/021			7	2019	\$1,039.34	5
SMH000365	Sewer Pit	E/022			7	2019	\$785.85	5
SMH000234	Sewer Pit	E/023			7	2019	\$1,039.34	5
SMH000587	Sewer Pit	E/024			7	2019	\$1,704.17	5
SMH000586	Sewer Pit	E/025			7	2019	\$1,039.34	5
SMH000231	Sewer Pit	E/026			7	2019	\$1,675.61	5
SMH000585	Sewer Pit	E/027			7	2019	\$1,039.34	5
SMH000584	Sewer Pit	E/028			7	2019	\$785.85	5
SMH000583	Sewer Pit	E/029			7	2019	\$785.85	5
SMH000164	Sewer Pit	E/030			7	2019	\$785.85	5
SMH000165	Sewer Pit	E/031			7	2019	\$1,039.34	5
SMH000214	Sewer Pit	F/008			7	2019	\$1,039.34	5
SMH000471	Sewer Pit	F/009			7	2019	\$1,039.34	5
SMH000470	Sewer Pit	F/010			7	2019	\$1,039.34	5
SMH000469	Sewer Pit	F/011			7	2019	\$1,039.34	5
SMH000213	Sewer Pit	F/012			7	2019	\$1,039.34	5
SMH000211	Sewer Pit	F/013			7	2019	\$785.85	5
SMH000212	Sewer Pit	F/014			7	2019	\$1,487.41	5
SMH000468	Sewer Pit	F/015			7	2019	\$1,039.34	5
SMH000480	Sewer Pit	F/016			7	2019	\$1,430.37	5
SMH000210	Sewer Pit	F/017			7	2019	\$1,039.34	5
SMH000206	Sewer Pit	F/018			7	2019	\$1,039.34	5
SMH000208	Sewer Pit	F/019			7	2019	\$3,580.66	5
SMH000207	Sewer Pit	F/020			7	2019	\$3,643.42	5
SMH000481	Sewer Pit	F/021			7	2019	\$1,039.34	5
SMH000173	Sewer Pit	F/022			7	2019	\$1,039.34	5
SMH000485	Sewer Pit	F/023			7	2019	\$1,039.34	5
SMH000174	Sewer Pit	F/024			7	2019	\$1,039.34	5
SMH000486	Sewer Pit	F/025			7	2019	\$1,458.91	5
SMH000510	Sewer Pit	F/026			7	2019	\$1,039.34	5
SMH000232	Sewer Pit	F/027			7	2019	\$1,772.59	5
SMH000233	Sewer Pit	F/028			7	2019	\$1,732.69	5
SMH000512	Sewer Pit	F/029			7	2019	\$950.65	5
SMH000513	Sewer Pit	F/030			7	2019	\$1,572.94	5

	Narra	indera SC >> Renew	al Progra	m (Se	wer_51_\			
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000515	Sewer Pit	F/031	_		7	2019	\$1,039.34	5
SMH000171	Sewer Pit	F/032			7	2019	\$1,641.40	5
SMH000170	Sewer Pit	F/033			7	2019	\$950.65	5
SMH000518	Sewer Pit	F/034			7	2019	\$1,039.34	5
SMH000168	Sewer Pit	F/035			7	2019	\$785.85	5
SMH000167	Sewer Pit	F/036			7	2019	\$1,039.34	5
SMH000166	Sewer Pit	F/037			7	2019	\$1,039.34	5
SMH000519	Sewer Pit	F/038			7	2019	\$950.65	5
SMH000520	Sewer Pit	F/039			7	2019	\$1,039.34	5
SMH000152	Sewer Pit	F/040			7	2019	\$785.85	5
SMH000467	Sewer Pit	F/045			7	2019	\$1,039.34	5
SMH000479	Sewer Pit	F/046			7	2019	\$1,039.34	5
SMH000226	Sewer Pit	F/047			7	2019	\$1,276.39	5
SMH000225	Sewer Pit	F/048			7	2019	\$1,039.34	5
SMH000224	Sewer Pit	F/049			7	2019	\$1,339.09	5
SMH000475	Sewer Pit	F/050			7	2019	\$1,039.34	5
SMH000222	Sewer Pit	F/051			7	2019	\$1,039.34	5
SMH000221	Sewer Pit	F/052			7	2019	\$1,039.34	5
SMH000220	Sewer Pit	F/053			7	2019	\$1,039.34	5
SMH000219	Sewer Pit	F/054			7	2019	\$950.65	5
SMH000477	Sewer Pit	F/055			7	2019	\$950.65	5
SMH000215	Sewer Pit	F/056			7	2019	\$950.65	5
SMH000223	Sewer Pit	F/057			7	2019	\$1,039.34	5
SMH000476	Sewer Pit	F/058			7	2019	\$1,039.34	5
SMH000309	Sewer Pit	F/059			7	2019	\$1,039.34	5
SMH000308	Sewer Pit	F/060			7	2019	\$1,039.34	5
SMH000218	Sewer Pit	F/061			7	2019	\$950.65	5
SMH000217	Sewer Pit	F/062			7	2019	\$950.65	5
SMH000216	Sewer Pit	F/063			7	2019	\$1,039.34	5
SMH000478	Sewer Pit	F/064			7	2019	\$1,039.34	5
SMH000209	Sewer Pit	F/065			7	2019	\$950.65	5
SMH000483	Sewer Pit	F/067			7	2019	\$1,039.34	5
SMH000482	Sewer Pit	F/068			7	2019	\$1,039.34	5
SMH000484	Sewer Pit	F/069			7	2019	\$1,039.34	5
SMH000589	Sewer Pit	F/070			7	2019	\$950.65	5
SMH000588	Sewer Pit	F/071			7	2019	\$1,595.75	5
SMH000200	Sewer Pit	F/072			7	2019	\$1,039.34	5
SMH000201	Sewer Pit	F/073			7	2019	\$1,039.34	5
SMH000199	Sewer Pit	F/074			7	2019	\$1,039.34	5
SMH000198	Sewer Pit	F/075			7	2019	\$1,039.34	5
SMH000197	Sewer Pit	F/076			7	2019	\$950.65	5

	INdird	indera SC >> Renew	arriogra	iii (30	.wei_31_1	/ 1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
Asset ID	Category	Asset Name	FIOIII	10	(Years)	Year	(\$)	(Years)
SMH000203	Sewer Pit	F/077			(Tears) 7	2019	\$950.65	5
SMH000205	Sewer Pit	F/078			, 7	2019	\$1,270.69	5
SMH000204	Sewer Pit	F/079			, 7	2019	\$1,039.34	5
SMH000202	Sewer Pit	F/080			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000196	Sewer Pit	F/081			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000194	Sewer Pit	F/081A			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000194	Sewer Pit	F/086			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000188	Sewer Pit	F/087			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000188	Sewer Pit	F/088			, 7	2019	\$1,035.34 \$2,571.12	5
SMH000185	Sewer Pit	F/089			, 7	2019	\$2,971.12 \$1,949.41	5
SMH000488	Sewer Pit	F/090			, 7	2019	\$1,039.34	5
SMH000487 SMH000195	Sewer Pit	F/091			, 7	2019	\$1,039.34	5
SMH000193	Sewer Pit	F/091			, 7	2019	\$2,505.45 \$950.65	5
SMH000187	Sewer Pit	F/092			, 7	2019	\$950.65 \$950.65	5
SMH000300	Sewer Pit	F/093			, 7	2019	\$950.05 \$1,039.34	5
SMH000499	Sewer Pit	F/094			, 7	2019	\$1,039.34 \$2,154.74	5
SMH000498	Sewer Pit	F/095A			, 7	2019	\$2,134.74 \$2,097.73	5
SMH000497	Sewer Pit	F/097			, 7	2019	\$2,097.73 \$1,744.07	5
SMH000190	Sewer Pit	F/097			, 7		\$1,744.07 \$785.85	5
SMH000191 SMH000192	Sewer Pit	F/098			, 7	2019 2019		5
		-			7 7		\$1,715.57	
SMH000193	Sewer Pit	F/100			7 7	2019	\$950.65	5
SMH000516	Sewer Pit	F/102				2019	\$950.65	5
SMH000169	Sewer Pit	F/103			7	2019	\$950.65	5
SMH000517	Sewer Pit	F/104			7	2019	\$950.65	5
SMH000514	Sewer Pit	F/105			7	2019	\$1,039.34	5
SMH000172	Sewer Pit	F/106			7	2019	\$1,039.34	5
SMH000511	Sewer Pit	F/107			7	2019	\$1,039.34	5
SMH000501	Sewer Pit	F/108			7	2019	\$950.65	5
SMH000502	Sewer Pit	F/108A			7	2019	\$950.65	5
SMH000505	Sewer Pit	F/110			7	2019	\$952.97	15
SMH000506	Sewer Pit	F/113			7	2019	\$952.97	15
SMH000507	Sewer Pit	F/114			7	2019	\$952.97	15
SMH000508	Sewer Pit	F/115			7	2019	\$952.97	15
SMH000503	Sewer Pit	F/116			7	2019	\$950.65	5
SMH000504	Sewer Pit	F/117			7	2019	\$950.65	5
SMH000227	Sewer Pit	G/001			7	2019	\$1,039.34	5
SMH000492	Sewer Pit	G/002			7	2019	\$950.65	5
SMH000493	Sewer Pit	G/003			7	2019	\$1,039.34	5
SMH000494	Sewer Pit	G/004			7	2019	\$1,039.34	5
SMH000230	Sewer Pit	G/005			7	2019	\$1,039.34	5
SMH000229	Sewer Pit	G/006			7	2019	\$950.65	5

	INdife	Indera SC >> Renew	ai Fiogra	iii (3e	.wei_9±_1	<i>и</i> т)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
ASSELID	category	Asset Name	moni	10	(Years)	Year	(\$)	(Years)
SMH000495	Sewer Pit	G/007			7	2019	\$785.85	5
SMH000228	Sewer Pit	G/008			7	2019	\$785.85	5
SMH000175	Sewer Pit	G/009			7	2019	\$621.08	5
SMH000045	Sewer Pit	H/002			7	2019	\$1,039.34	5
SMH000044	Sewer Pit	H/003			7	2019	\$950.65	5
SMH000042	Sewer Pit	H/004			7	2019	\$950.65	5
SMH000531	Sewer Pit	H/005			, 7	2019	\$1,039.34	5
SMH000041	Sewer Pit	H/006			7	2019	\$950.65	5
SMH000039	Sewer Pit	H/006A			, 7	2019	\$1,039.34	5
SMH000040	Sewer Pit	H/006B			, 7	2019	\$1,039.34	5
SMH000038	Sewer Pit	H/007			, 7	2019	\$1,039.34	5
SMH000037	Sewer Pit	H/008			, 7	2019	\$1,464.60	5
SMH000402	Sewer Pit	H/009			, 7	2019	\$1,039.34	5
SMH000402 SMH000104	Sewer Pit	H/010			, 7	2019	\$950.65	5
SMH000104	Sewer Pit	H/011			, 7	2019	\$1,039.34	5
SMH000405	Sewer Pit	H/012			, 7	2019	\$1,384.74	5
SMH000105	Sewer Pit	H/013			, 7	2019	\$1,795.40	5
SMH000100 SMH000107	Sewer Pit	H/013			, 7	2019	\$950.65	5
SMH000107	Sewer Pit	H/014			, 7	2019	\$950.65 \$950.65	5
SMH000400	Sewer Pit	H/015			, 7	2019	\$950.65 \$950.65	5
SMH000108 SMH000109	Sewer Pit	H/017			, 7	2019	\$ <u>9</u> 50.05 \$1,039.34	5
SMH000109 SMH000110	Sewer Pit	H/017			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000110 SMH000409	Sewer Pit	H/019			, 7	2019	\$1,339.09	5
SMH0000409	Sewer Pit	H/019			, 7	2019	\$1,339.09 \$2,804.95	5
SMH000043	Sewer Pit	H/022			, 7	2019	\$2,804.93 \$1,572.94	5
SMH000099	Sewer Pit	H/024			, 7	2019	\$1,920.90	5
SMH000090	Sewer Pit	H/025			7	2019	\$1,920.90 \$1,039.34	5
SMH000087	Sewer Pit	H/020			7	2019	\$1,039.34 \$785.85	5
SMH000080	Sewer Pit	H/027			7	2019	\$1,327.71	5
SMH000444	Sewer Pit	H/028			, 7	2019	\$1,039.34	5
SMH0000443	Sewer Pit	H/030			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000091 SMH000092	Sewer Pit	H/030			, 7	2019	\$1,039.34 \$1,039.34	5
SMH000032	Sewer Pit	H/031			7	2019	\$1,755.52	
SMH000438 SMH000428	Sewer Pit	H/032			, 7	2019		5
							\$1,972.24	5
SMH000422	Sewer Pit	H/034			7 7	2019	\$1,858.16 \$1,276.20	5
SMH000410	Sewer Pit	H/037			7 7	2019	\$1,276.39 \$1,424.67	5
SMH000088	Sewer Pit	H/038			7 7	2019	\$1,424.67 \$950.65	5
SMH000094	Sewer Pit	H/039			7 7	2019	\$950.65	5
SMH000093	Sewer Pit	H/040			7	2019	\$1,515.91	5
SMH000445	Sewer Pit	H/041			7	2019	\$1,624.27	5
SMH000435	Sewer Pit	H/042			7	2019	\$950.65	5

	Narre	andera SC >> Kenew	01110510	(Se		-)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000436	Sewer Pit	H/043			7	2019	\$950.65	5
SMH000095	Sewer Pit	H/044			7	2019	\$1,039.34	5
SMH000437	Sewer Pit	H/044A			7	2019	\$1,732.69	5
SMH000099	Sewer Pit	H/046			7	2019	\$1,039.34	5
SMH000098	Sewer Pit	H/047			7	2019	\$1,039.34	5
SMH000097	Sewer Pit	H/048			7	2019	\$1,863.87	5
SMH000442	Sewer Pit	H/049			7	2019	\$1,270.69	5
SMH000441	Sewer Pit	H/050			7	2019	\$1,413.24	5
SMH000439	Sewer Pit	H/051			7	2019	\$1,909.49	5
SMH000096	Sewer Pit	H/051A			7	2019	\$1,401.86	5
SMH000440	Sewer Pit	H/052			7	2019	\$1,578.69	5
SMH000432	Sewer Pit	H/053			7	2019	\$950.65	5
SMH000430	Sewer Pit	H/054			7	2019	\$1,039.34	5
SMH000100	Sewer Pit	H/054A			7	2019	\$1,039.34	5
SMH000429	Sewer Pit	H/055			7	2019	\$1,039.34	5
SMH000424	Sewer Pit	H/057			7	2019	\$1,039.34	5
SMH000423	Sewer Pit	H/057A			7	2019	\$1,515.91	5
SMH000418	Sewer Pit	H/058			7	2019	\$1,039.34	5
SMH000419	Sewer Pit	H/059			7	2019	\$1,504.54	5
SMH000420	Sewer Pit	H/060			7	2019	\$1,898.07	5
SMH000421	Sewer Pit	H/060A			7	2019	\$1,527.34	5
SMH000427	Sewer Pit	H/061			7	2019	\$1,039.34	5
SMH000103	Sewer Pit	H/062			7	2019	\$1,039.34	5
SMH000417	Sewer Pit	H/063			7	2019	\$1,039.34	5
SMH000416	Sewer Pit	H/064			7	2019	\$1,039.34	5
SMH000415	Sewer Pit	H/065			7	2019	\$1,039.34	5
SMH000414	Sewer Pit	H/065A			7	2019	\$1,039.34	5
SMH000412	Sewer Pit	H/066			7	2019	\$1,373.35	5
SMH000413	Sewer Pit	H/066A			7	2019	\$1,039.34	5
SMH000408	Sewer Pit	H/067A			7	2019	\$1,316.31	5
SMH000433	Sewer Pit	H/069			7	2019	\$1,039.34	5
SMH000434	Sewer Pit	H/070			7	2019	\$1,039.34	5
SMH000101	Sewer Pit	H/071			7	2019	\$1,039.34	5
SMH000113	Sewer Pit	J/001			7	2019	\$1,039.34	5
SMH000112	Sewer Pit	J/002			7	2019	\$1,039.34	5
SMH000114	Sewer Pit	J/003			7	2019	\$1,681.37	5
SMH000117	Sewer Pit	J/004			7	2019	\$1,430.37	5
SMH000120	Sewer Pit	J/005			7	2019	\$950.65	5
SMH000121	Sewer Pit	J/005A			7	2019	\$1,504.54	5
SMH000521	Sewer Pit	J/006			7	2019	\$1,039.34	5
SMH000132	Sewer Pit	J/007			7	2019	\$1,356.22	5

	Turre	indera SC >> Kenew	1110510					
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000131	Sewer Pit	J/008			7	2019	\$1,732.69	5
SMH000128	Sewer Pit	J/009			7	2019	\$1,692.73	5
SMH000127	Sewer Pit	J/010			7	2019	\$2,462.74	5
SMH000126	Sewer Pit	J/011			7	2019	\$1,801.09	5
SMH000125	Sewer Pit	J/012			7	2019	\$1,806.85	5
SMH000124	Sewer Pit	J/013			7	2019	\$1,039.34	5
SMH000123	Sewer Pit	J/014			7	2019	\$1,039.34	5
SMH000122	Sewer Pit	J/015			7	2019	\$1,039.34	5
SMH000528	Sewer Pit	J/016			7	2019	\$621.08	5
SMH000141	Sewer Pit	J/017			7	2019	\$1,692.73	5
SMH000142	Sewer Pit	J/018			7	2019	\$1,039.34	5
SMH000149	Sewer Pit	J/020			7	2019	\$1,039.34	5
SMH000348	Sewer Pit	J/021			7	2019	\$1,572.94	5
SMH000118	Sewer Pit	J/023			7	2019	\$950.65	5
SMH000130	Sewer Pit	J/024			7	2019	\$950.65	5
SMH000129	Sewer Pit	J/025			7	2019	\$1,039.34	5
SMH000581	Sewer Pit	J/026			7	2019	\$1,039.34	5
SMH000137	Sewer Pit	J/027			7	2019	\$1,039.34	5
SMH000523	Sewer Pit	J/029			7	2019	\$1,367.66	5
SMH000524	Sewer Pit	J/030			7	2019	\$1,039.34	5
SMH000133	Sewer Pit	J/031			7	2019	\$950.65	5
SMH000134	Sewer Pit	J/032			7	2019	\$950.65	5
SMH000525	Sewer Pit	J/033			7	2019	\$950.65	5
SMH000526	Sewer Pit	J/034			7	2019	\$1,039.34	5
SMH000522	Sewer Pit	J/035			7	2019	\$1,812.52	5
SMH000139	Sewer Pit	J/036			7	2019	\$950.65	5
SMH000140	Sewer Pit	J/037			7	2019	\$950.65	5
SMH000136	Sewer Pit	J/038			7	2019	\$1,039.34	5
SMH000135	Sewer Pit	J/039			7	2019	\$1,039.34	5
SMH000144	Sewer Pit	J/040			7	2019	\$1,039.34	5
SMH000143	Sewer Pit	J/041			7	2019	\$1,039.34	5
SMH000145	Sewer Pit	J/042			7	2019	\$1,039.34	5
SMH000351	Sewer Pit	J/043			7	2019	\$1,039.34	5
SMH000355	Sewer Pit	J/046			7	2019	\$1,039.34	5
SMH000147	Sewer Pit	J/048			7	2019	\$1,039.34	5
SMH000146	Sewer Pit	J/049			7	2019	\$950.65	5
SMH000353	Sewer Pit	J/050			7	2019	\$1,039.34	5
SMH000162	Sewer Pit	J/052			7	2019	\$950.65	5
SMH000341	Sewer Pit	J/053			7	2019	\$1,039.34	5
SMH000161	Sewer Pit	J/053A			7	2019	\$1,698.44	5
SMH000340	Sewer Pit	J/054			7	2019	\$785.85	5

Sub Rem Planned Renewal	Useful
	Usetul
Asset ID Category Asset Name From To Life Renewal Cost	Life
(Years) Year (\$)	(Years)
SMH000339 Sewer Pit J/055 7 2019 \$1,039.34	5
SMH000160 Sewer Pit J/056 7 2019 \$621.08	5
SMH000338 Sewer Pit J/057 7 2019 \$950.65	5
SMH000154 Sewer Pit J/058 7 2019 \$1,039.34	5
SMH000343 Sewer Pit J/059 7 2019 \$785.85	5
SMH000153 Sewer Pit J/060 7 2019 \$1,396.17	5
SMH000344 Sewer Pit J/061 7 2019 \$1,039.34	5
SMH000345 Sewer Pit J/062 7 2019 \$950.65	5
SMH000346 Sewer Pit J/063 7 2019 \$1,618.60	5
SMH000347 Sewer Pit J/064 7 2019 \$1,772.59	5
SMH000151 Sewer Pit J/065 7 2019 \$1,039.34	5
SMH000150 Sewer Pit J/066 7 2019 \$1,039.34	5
SMH000138 Sewer Pit J/067 7 2019 \$1,039.34	5
SMH000527 Sewer Pit L/001 7 2019 \$1,270.69	5
SMH000163 Sewer Pit L/002 7 2019 \$1,493.08	5
Subtotal \$625,590.1	3
SNM000013 Sewer Main B/012-B/011 8 2020 \$2,121.44	70
SNM000003 Sewer Main B/012-B/025 8 2020 \$1,005.14	70
SNM000014 Sewer Main B/013-B/012 8 2020 \$876.01	70
SNM000015 Sewer Main B/014-B/013 8 2020 \$1,903.25	70
SNM000016 Sewer Main B/015-B/014 8 2020 \$2,259.94	70
SNM000017 Sewer Main B/016-B/015 8 2020 \$3,151.46	70
SNM000023 Sewer Main B/017-B/016 8 2020 \$1,965.32	70
SNM000024 Sewer Main B/017-B/041 8 2020 \$2,672.05	70
SNM000022 Sewer Main B/018-B/017 8 2020 \$2,626.40	70
SNM000021 Sewer Main B/019-B/018 8 2020 \$1,210.03	70
SNM000020 Sewer Main B/019-B/051 8 2020 \$596.18	70
SNM000018 Sewer Main B/020-B/019 8 2020 \$3,188.76	70
SNM000004 Sewer Main B/021-B/020 8 2020 \$3,479.39	70
SNM000067 Sewer Main B/021-DE12 8 2020 \$4,508.77	70
SNM000066 Sewer Main B/025-B/024 8 2020 \$2,008.82	70
SNM000086 Sewer Main B/037-B/027 8 2020 \$2,680.76	70
SNM000087 Sewer Main B/037-B/036 8 2020 \$3,509.16	70
SNM000074 Sewer Main B/038-B/037 8 2020 \$1,847.77	70
SNM000073 Sewer Main B/039-B/038 8 2020 \$2,125.64	70
SNM000072 Sewer Main B/040-B/039 8 2020 \$2,321.62	70
SNM000006 Sewer Main B/041-B/040 8 2020 \$1,328.53	70
SNM000005 Sewer Main B/044-B/043 8 2020 \$2,146.03	70
SNM000019 Sewer Main B/051-B/044 8 2020 \$2,251.56	70
SNM000192 Sewer Main C/001-A/060 8 2020 \$4,136.07	70

	Na	arrandera SC >> Rene	ewal Progra	ım (Se	ewer_S1_\	/1)		
					_		-	
	Sub		_	_	Rem	Planned	Renewal	Useful
Asset II	D Category	Asset Name	From	То	Life	Renewal	Cost	Life
SNM0004	64 Sewer Main	C/001-C/025			(Years) 8	Year 2020	(\$) \$1,992.79	(Years) 70
SNM0004		C/001-C/023			8	2020	\$3,330.78	70
SNM0004		C/003-C/002			8	2020	\$3,330.78 \$1,978.39	70
SNM0004		C/024-DE46			8	2020	\$2,660.40	70
SNM0004		C/025-C/024			8	2020	\$2,000.40	70
SNM0004		C/050A-C/050			8	2020	\$3,956.98	13
SNM0003		E/013-DE63			8	2020	\$1,684.79	70
SNM0003		E/017-E/023			8	2020	\$705.27	70
SNM0000		H/024-B/021			8	2020	\$1,542.90	70
SNM0006		J/006-J/005			8	2020	\$1,197.27	70
SNM0000		J/007-J/006			8	2020	\$3,037.19	70
SNM0000		J/008-J/007			8	2020	\$3,951.82	70
SNM0000		J/009-J/008			8	2020	\$1,453.37	70
SNM0006		J/010-J/009			8	2020	\$4,173.64	70
SNM0000		J/011-J/010			8	2020	\$5,949.03	70
SNM0000		J/012-J/011			8	2020	\$10,334.34	70
SNM0002		J/013-J/012			8	2020	\$8,034.29	70
SNM0002		J/014-J/013			8	2020	\$11,362.06	70
SNM0006		J/043-J/042A			8	2020	\$83.73	70
SNM0005		J/046-DE119			8	2020	\$4,109.95	70
SNM0000		, J/053A-DE			8	2020	\$545.01	70
SNM0000		J/053A-J/052			8	2020	\$1,640.70	70
SNM0000		J/053-J/053A			8	2020	\$1,491.26	70
SNM0006	69 Sewer Main	J/054A-DE			8	2020	\$431.78	70
SNM0000	29 Sewer Main	J/054-J/053			8	2020	\$2,626.40	70
SNM0000	31 Sewer Main	J/055-DE133			8	2020	\$1,046.77	70
SNM0000	32 Sewer Main	J/056-J/055			8	2020	\$2,126.39	70
SNM0000	33 Sewer Main	J/057-J/056			8	2020	\$1,913.35	70
SNM0000	30 Sewer Main	J/057-J/056			8	2020	\$1,470.18	70
SNM0000	35 Sewer Main	J/057-J/058			8	2020	\$1,477.64	70
SNM0006	53 Sewer Main	J/058-K/010			8	2020	\$7,106.20	70
SNM0000	36 Sewer Main	J/060-J/059			8	2020	\$1,897.34	70
SNM0002	70 Sewer Main	J/062-J/061			8	2020	\$2,990.36	70
SNM0002	Sewer Main	J/063-DE135			8	2020	\$2,026.72	70
SNM0002	.71 Sewer Main	J/063-J/062			8	2020	\$3,040.06	70
SNM0002	Sewer Main	J/063-J/066			8	2020	\$4,368.09	70
SNM0002	.73 Sewer Main	J/065-DE134			8	2020	\$840.34	70
SNM0002	.74 Sewer Main	J/066-J/065			8	2020	\$509.80	70
SMH0005	Sewer Pit	A/046			8	2020	\$779.60	21
SMH0000	13 Sewer Pit	A/061			8	2020	\$852.30	21
SMH0005	578 Sewer Pit	A/062			8	2020	\$779.60	21

	Ivaira	Indera SC >> Renew	arriogra	in (3e	.wei_31_1	/ 1/		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
7,0000112	eutogory	/ 00000 / 100000			(Years)	Year	(\$)	(Years)
SMH000576	Sewer Pit	A/063			8	2020	\$544.91	28
SMH000327	Sewer Pit	A/064			8	2020	\$779.60	21
SMH000019	Sewer Pit	A/065			8	2020	\$852.30	21
SMH000326	Sewer Pit	A/067			8	2020	\$595.72	28
SMH000575	Sewer Pit	A/068			8	2020	\$595.72	28
SMH000053	Sewer Pit	B/007			8	2020	\$1,004.23	6
SMH000564	Sewer Pit	B/033			8	2020	\$617.96	22
SMH000563	Sewer Pit	B/034			8	2020	\$617.96	22
SMH000078	Sewer Pit	B/047			8	2020	\$817.27	22
SMH000562	Sewer Pit	B/048			8	2020	\$1,393.84	22
SMH000076	Sewer Pit	B/049			8	2020	\$1,290.72	22
SMH000077	Sewer Pit	B/050			8	2020	\$488.35	22
SMH000310	Sewer Pit	C/052			8	2020	\$1,336.72	21
SMH000312	Sewer Pit	C/070			8	2020	\$852.30	21
SMH000313	Sewer Pit	C/080			8	2020	\$852.30	21
SMH000464	Sewer Pit	C/081			8	2020	\$852.30	21
SMH000404	Sewer Pit	DE111			8	2020	\$488.35	22
SMH000474	Sewer Pit	DE66			8	2020	\$1,004.23	6
SMH000183	Sewer Pit	F/001			8	2020	\$1,004.23	6
SMH000182	Sewer Pit	F/002			8	2020	\$1,097.94	6
SMH000181	Sewer Pit	F/003			8	2020	\$1,004.23	6
SMH000180	Sewer Pit	F/004			8	2020	\$1,004.23	6
SMH000178	Sewer Pit	F/005			8	2020	\$1,004.23	6
SMH000472	Sewer Pit	F/006			8	2020	\$1,097.94	6
SMH000179	Sewer Pit	F/042			8	2020	\$1,097.94	6
SMH000176	Sewer Pit	F/043			8	2020	\$1,004.23	6
SMH000473	Sewer Pit	F/044			8	2020	\$1,004.23	6
SMH000184	Sewer Pit	F/082			8	2020	\$1,004.23	6
SMH000490	Sewer Pit	F/083			8	2020	\$1,097.94	6
SMH000185	Sewer Pit	F/084			8	2020	\$1,004.23	6
SMH000186	Sewer Pit	F/085			8	2020	\$1,004.23	6
SMH000509	Sewer Pit	F/116			8	2020	\$852.30	21
SMH000600	Sewer Pit	F/118			8	2020	\$871.21	18
SMH000598	Sewer Pit	F/120			8	2020	\$871.21	18
SMH000597	Sewer Pit	F/122			8	2020	\$871.21	18
SMH000601	Sewer Pit	F/123			8	2020	\$714.90	23
SMH000602	Sewer Pit	F/124			8	2020	\$779.60	21
SMH000596	Sewer Pit	F121			8	2020	\$871.21	18
SMH000403	Sewer Pit	H/068			8	2020	\$488.35	22
SMH000115	Sewer Pit	J/022			8	2020	\$1,097.94	6
SMH000116	Sewer Pit	J/068			8	2020	\$886.62	20

	Narra	andera SC >> Renewa	al Progra	m (Se	wer_S1_	V1)		
_	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SMH000119	Sewer Pit	J/069			8	2020	\$886.62	20
SMH000335	Sewer Pit	K/001			8	2020	\$899.80	17
SMH000334	Sewer Pit	K/008			8	2020	\$1,229.72	17
						Subtotal	\$209,180.29	
SNT000001/06	Plant and	DRYING BED			9	2021	\$18,303.21	31
CNI5000004	Equipment				0	2024	67 00C 74	40
SNE000001	Plant and Equipment	Electric Eel Cleaning			9	2021	\$7,236.71	10
	Equipment	Equipment						
SNM000058	Sewer Main	B/008-DE20			9	2021	\$2,633.29	70
SNM000065	Sewer Main	B/024-B/052			9	2021	\$969.46	70
SNM000356	Sewer Main	D/035-DE51			9	2021	\$1,834.40	70
SNM000357	Sewer Main	D/036-D/035			9	2021	\$2,099.85	70
SNM000354	Sewer Main	D/036-D/039			9	2021	\$3,265.25	70
SNM000358	Sewer Main	D/036-D/045			9	2021	\$680.45	70
SNM000359	Sewer Main	D/037-D/036			9	2021	\$1,762.26	70
SNM000360	Sewer Main	D/038-DE53			9	2021	\$1,720.82	70
SNM000353	Sewer Main	D/039-DE50			9	2021	\$2,878.87	70
SNM000361	Sewer Main	D/045-D/038			9	2021	\$1,428.97	70
SNM000355	Sewer Main	D/045-DE52			9	2021	\$1,874.69	70
SNM000451	Sewer Main	F/010-F/009			9	2021	\$2,550.81	70
SNM000450	Sewer Main	F/011-F/010			9	2021	\$2,857.29	70
SNM000449	Sewer Main	F/012-F/011			9	2021	\$2,883.94	70
SNM000448	Sewer Main	F/013-F/012			9	2021	\$2,880.56	70
SNM000447	Sewer Main	F/014-F/013			9	2021	\$3,534.89	70
SNM000446	Sewer Main	F/015-F/014			9	2021	\$3,237.33	70
SNM000445	Sewer Main	F/015-F/045			9	2021	\$3,754.40	70
SNM000442	Sewer Main	F/016-F/015			9	2021	\$3,050.89	70
SNM000639	Sewer Main	F/018-F/017			9	2021	\$2,989.57	70
SNM000424	Sewer Main	F/018-F/064			9	2021	\$2,774.73	70
SNM000425	Sewer Main	F/018-F/065			9	2021	\$3,001.99	70 70
SNM000518	Sewer Main	F/019-F/018			9	2021	\$2,682.92	70
SNM000517	Sewer Main	F/020-F/019			9	2021	\$3,602.47	70
SNM000374	Sewer Main	F/021-F/020			9	2021	\$7,001.89	70
SNM000374	Sewer Main	F/021-F/020			9	2021	\$2,595.16	70 70
SNM000375	Sewer Main	F/021-F/068			9	2021	\$2,595.10	70
SNM000378 SNM000379	Sewer Main Sewer Main	F/022-F/067 F/023-F/024			9 9	2021 2021	\$1,788.77 \$2,306.48	70 70
SNM000637	Sewer Main	F/023-F/069			9	2021	\$1,829.92 \$10.145.64	70 70
SNM000380	Sewer Main	F/024-F/0			9	2021	\$10,145.64	70 70
SNM000381	Sewer Main	F/025-F/024			9	2021	\$2,306.48	70

	Narra	ndera SC >> Renewa	al Progra	m (Se	ewer_S1_\	/1)		
					_			
	Sub		_	_	Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
CNIN 4000E 78	Courses Main				(Years)	Year	(\$)	(Years)
SNM000578	Sewer Main	F/025-F/079			9	2021	\$7,273.94	70
SNM000576	Sewer Main	F/026-F/025			9	2021	\$1,700.28	70 70
SNM000638	Sewer Main	F/026-F/107			9	2021	\$9,102.58	70 70
SNM000577	Sewer Main	F/027-F/026			9	2021 2021	\$6,565.79 \$6,138.05	70 70
SNM000595	Sewer Main	F/027-F/028			9 9		\$6,138.95	
SNM000575	Sewer Main	F/029-F/028				2021	\$6,383.58	70 70
SNM000373	Sewer Main	F/029-F/106			9	2021	\$2,843.84	70 70
SNM000574	Sewer Main	F/030-F/029			9	2021	\$2,944.25	70
SNM000572	Sewer Main	F/030-F/031			9	2021	\$7,256.14	70 70
SNM000573	Sewer Main	F/032-F/031			9	2021	\$7,256.14	70
SNM000571	Sewer Main	F/033-F/032			9	2021	\$6,502.20	70
SNM000603	Sewer Main	F/034-F/033			9	2021	\$5,181.23	70
SNM000527	Sewer Main	F/035-F/104			9	2021	\$1,866.81	70
SNM000605	Sewer Main	F/036-F/035			9	2021	\$2,305.87	70
SNM000606	Sewer Main	F/037-F/036			9	2021	\$6,627.72	70
SNM000607	Sewer Main	F/038-F/037			9	2021	\$6,386.57	70
SNM000608	Sewer Main	F/039-F/038			9	2021	\$1,877.09	70
SNM000609	Sewer Main	F/040-F/039			9	2021	\$4,880.21	70
SNM000443	Sewer Main	F/045-DE150			9	2021	\$1,077.59	70
SNM000444	Sewer Main	F/045-DE72			9	2021	\$621.02	70
SNM000437	Sewer Main	F/055-F/054			9	2021	\$3,522.97	70
SNM000422	Sewer Main	F/055-F/063			9	2021	\$2,389.02	70
SNM000519	Sewer Main	F/056-F/055			9	2021	\$2,411.02	70
SNM000423	Sewer Main	F/065-DE79			9	2021	\$1,334.75	70
SNM000377	Sewer Main	F/067-DE82			9	2021	\$1,286.48	70
SNM000382	Sewer Main	F/070-DE87			9	2021	\$1,290.51	70
SNM000383	Sewer Main	F/071-F/070			9	2021	\$2,866.01	70
SNM000385	Sewer Main	F/072-F/071			9	2021	\$2,572.57	70
SNM000642	Sewer Main	F/072-F/080			9	2021	\$3,489.70	70
SNM000387	Sewer Main	F/073-F/072			9	2021	\$2,845.15	70
SNM000388	Sewer Main	F/074-F/073			9	2021	\$2,109.07	70
SNM000389	Sewer Main	F/075-F/074			9	2021	\$2,330.83	70
SNM000390	Sewer Main	F/076-F/075			9	2021	\$1,371.97	70
SNM000582	Sewer Main	F/076-F/091			9	2021	\$5,331.84	70
SNM000580	Sewer Main	F/078-F/077			9	2021	\$4,125.02	70
SNM000579	Sewer Main	F/079-F/078			9	2021	\$6,774.58	70
SNM000386	Sewer Main	F/080-DE85			9	2021	\$1,566.20	70
SNM000696	Sewer Main	F/081A-F/081			9	2021	\$3,944.14	70
SNM000392	Sewer Main	F/081-DE88			9	2021	\$610.13	70
SNM000391	Sewer Main	F/081-DE89			9	2021	\$1,334.37	70
SNM000584	Sewer Main	F/090-F/089			9	2021	\$3,803.97	70

NARRANDERA SHIRE COUNCIL -SEWERAGE SYSTEMS ASSET MANAGEMENT PLAN - VERSION 1.02, 7 June 2012

	Narra	andera SC >> Renew	al Progra	m (Se	wer_S1_\	/1)		
	Sub				Rem	Planned	Renewal	Useful
Asset ID	Category	Asset Name	From	То	Life	Renewal	Cost	Life
					(Years)	Year	(\$)	(Years)
SNM000641	Sewer Main	F/091-F/081A			9	2021	\$2,310.44	70
SNM000583	Sewer Main	F/091-F/090			9	2021	\$5,215.57	70
SNM000372	Sewer Main	F/106-F/105			9	2021	\$1,397.27	70
SNM000101	Sewer Main	H/002-DE114			9	2021	\$2,295.45	70
SNM000102	Sewer Main	H/003-H/002			9	2021	\$2,917.32	70
SNM000103	Sewer Main	H/004-H/003			9	2021	\$2,458.87	70
SNM000105	Sewer Main	H/004-H/022			9	2021	\$1,779.86	70
SNM000104	Sewer Main	H/022-DE113			9	2021	\$2,829.56	70
SNM000025	Sewer Main	J/052-DE132			9	2021	\$1,985.76	70
SNM000624	Sewer Main	SPS1-F/040			9	2021	\$34,461.82	70
SMH000177	Sewer Pit	F/007			9	2021	\$1,356.90	6
						Subtotal	\$327,384.95	
					Prog	am Total	\$2,722,00)1.54

Appendix B2 Projected 10 year Capital Renewal Works Program (Scenario 2 – Prioritised Renewal Program)

Narrandera SC Projected Capital Renewal Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
2012		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2012		Total	\$381

2013		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2013		Total	\$381

Year	Item	Description	Estimate
2014		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		

Narrandera SC Projected Capital Renewal Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
2014		Total	\$381

2015		Network Renewals	Estimate
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2015		Total	\$381

Year	Item	Description	Estimate
2016		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2016		Total	\$381

2017		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		

Narrandera SC Projected Capital Renewal Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
2017		Total	\$381

(\$000)

Year	Item	Description	Estimate
2018		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2018		Total	\$381

2019		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2019		Total	\$381

Year	Item	Description	Estimate
2020		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		

Narrandera SC Projected Capital Renewal Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
	10		
2020		Total	\$381

2021		Network Renewals	
	1	Budget - Long Term Financial Plan Estimate for Sewerage Systems	\$381
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2021		Total	\$381

Appendix C1 Planned Upgrade/Exp/New 10 year Capital Works Program (All Scenarios)

Narrandera SC Projected Capital Upgrade/New Works Program - Sewer_S2_V1

	-		(\$000)
Year	Item	Description	Estimate
2012	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2012		Total	\$0

(\$000) Year Item Description Estimate 2013 1 Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems 2 3 4 5 6 7 8 9 10 2013 Total \$0

			(\$000)
Year	Item	Description	Estimate
2014	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2014		Total	\$0

NARRANDERA SHIRE COUNCIL -SEWERAGE SYSTEMS ASSET MANAGEMENT PLAN - VERSION 1.02, 7 June 2012

Narrandera SC Projected Capital Upgrade/New Works Program - Sewer_S2_V1

			(\$000)
Year	ltem	Description	Estimate

			(\$000)
Year	ltem	Description	Estimate
2015	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2015		Total	\$0

			(\$000)
Year	ltem	Description	Estimate
2016	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2016		Total	\$0

	_		(\$000)
Year	ltem	Description	Estimate
2017	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		

Narrandera SC Projected Capital Upgrade/New Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
	10		
2017		Total	\$0

			(\$000)
Year	Item	Description	Estimate
2018	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2018		Total	\$0

			(\$000)
Year	Item	Description	Estimate
2019	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2019		Total	\$0

			(\$000)
Year	Item	Description	Estimate
2020	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		

Narrandera SC Projected Capital Upgrade/New Works Program - Sewer_S2_V1

			(\$000)
Year	Item	Description	Estimate
	8		
	9		
	10		
2020		Total	\$0

Year	Item	Description	Estimate
2021	1	Typical Annual Budget for Upgrade/New based on current budget for Sewerage Systems	
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
2021		Total	\$0

Appendix D Alternate Ratio Calculations

Narrandera SC >> Table 6.1 Sustainability of Service Delivery Summary - What does it cost?	S1 Asset Register	S2 Balanced with LTFP - Prioritised renewal program (Individual renewal items not separately identified)	S3 Same as Scenario 2
Cost over 10 years	\$8,142	\$9,230	\$9,230
Cost per year	\$814	\$923	\$923
Available funding over 10 years	\$9,230	\$9,230	\$9,230
Funding per year	\$923	\$923	\$923
Funding shortfall	-\$109	\$0	\$0
Percentage of cost	113%	100%	100%
Life Cycle Cost (long term)'(\$000)			
Life Cycle Cost [depreciation + Projected Expenditure]	\$8,430	\$8,430	\$8,430
Life Cycle Exp. [capital renewal + Planned Expenditure]	\$9,230	\$9,230	\$9,230
Life Cycle Gap [life cycle expenditure - life cycle cost [-ve = gap]	\$800	\$800	\$800
Life Cycle Sustainability Indicator [life cycle expenditure / LCC]	109%	109%	109%
Medium Term (10 yrs) Sustainability			
10 yr Projected Expenditure	\$8,142	\$9,230	\$9,230
10 yr Planned (Budget) Expenditure	\$9,230	\$9,230	\$9,230
10 yr Funding Shortfall [10 yr proj. exp planned (Budget) exp.]	\$1,088	\$0	\$0
10 yr Sustainability Indicator [10 yr planned exp. / proj. exp.]	113%	100%	100%
Short Term (5 yrs) Sustainability			
5 yr Projected Expenditure	\$3,879	\$4,615	\$4,615
5 yr Planned (Budget) Expenditure	\$4,615	\$4,615	\$4,615
5 yr Funding Shortfall [5 yr proj. exp planned (budget) exp.]	\$736	\$0	\$0
5 yr Sustainability Indicator [5 yr planned exp. / proj. exp.]	119%	100%	100%

Appendix E Abbreviations

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

Appendix F Glossary

Annual service cost (ASC)

- Reporting actual cost The annual (accrual) cost of providing a service including operations, maintenance, depreciation, finance/opportunity and disposal costs less revenue.
- 2) For investment analysis and budgeting 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 operations, maintenance, depreciation, finance/ opportunity and disposal costs, less revenue.

Asset

A resource controlled by an entity as a result of past events and from which future economic benefits are expected to flow to the entity. Infrastructure assets are a sub-class of property, plant and equipment which are non-current assets with a life greater than 12 months and enable services to be provided.

Asset class

A group of assets having a similar nature or function in the operations of an entity, and which, for purposes of disclosure, is shown as a single item without supplementary disclosure.

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 (AM)

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.

Average annual asset consumption (AAAC)*

The amount of an organisation's asset base consumed during a reporting period (generally a year). This may be calculated by dividing the depreciable amount by the useful life (or total future economic benefits/service potential) and totalled for each and every asset OR by dividing the carrying amount (depreciated replacement cost) by the remaining useful life (or remaining future economic benefits/service potential) and totalled for each and every asset in an asset category or class.

Borrowings

A borrowing or loan is a contractual obligation of the borrowing entity to deliver cash or another financial asset to the lending entity over a specified period of time or at a specified point in time, to cover both the initial capital provided and the cost of the interest incurred for providing this capital. A borrowing or loan provides the means for the borrowing entity to finance outlays (typically physical assets) when it has insufficient funds of its own to do so, and for the lending entity to make a financial return, normally in the form of interest revenue, on the funding provided.

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 expenditure - expansion

Expenditure that extends the capacity of an existing asset to provide benefits, at the same standard as is currently enjoyed by existing beneficiaries, to a new group of users. It is discretionary expenditure, which increases future operations and maintenance costs, because it increases the organisation'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 - new

Expenditure which creates a new asset providing a new service/output that did not exist beforehand. As it increases service potential it may impact revenue and will increase future operations and maintenance expenditure.

Capital expenditure - renewal

Expenditure on an existing asset or on replacing an existing asset, which returns the service capability 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 generally has no impact on revenue, but may reduce future operations 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.

Capital expenditure - upgrade

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 operations and maintenance expenditure in the future because of the increase in the organisation'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.

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

Capitalisation threshold

The value of expenditure on non-current assets above which the expenditure is recognised as capital expenditure and below which the expenditure is charged as an expense in the year of acquisition.

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

Specific parts of an asset having independent physical or functional identity and having specific attributes such as different life expectancy, maintenance regimes, risk or criticality.

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, including 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.

Depreciable amount

The cost of an asset, or other amount substituted for its cost, less its residual value.

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.

Funding gap

A funding gap exists whenever an entity has insufficient capacity to fund asset renewal and other expenditure necessary to be able to appropriately maintain the range and level of services its existing asset stock was originally designed and intended to deliver. The service capability of the existing asset stock should be determined assuming no additional operating revenue, productivity improvements, or net financial liabilities above levels currently planned or projected. A current funding gap means service levels have already or are currently falling. A projected funding gap if not addressed will result in a future diminution of existing service levels.

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 that contribute to meeting the needs of organisations or the 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 separate 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.

Key performance indicator

A qualitative or quantitative measure of a service or activity used to compare actual performance against a standard or other target. Performance indicators commonly relate to statutory limits, safety, responsiveness, cost, comfort, asset performance, reliability, efficiency, environmental protection and customer satisfaction.

Level of service

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

Life Cycle Cost

- 1. **Total LCC** The total cost of an asset throughout its life including planning, design, construction, acquisition, operation, maintenance, rehabilitation and disposal costs.
- Average LCC The life cycle cost (LCC) is average cost to provide the service over the longest asset life cycle. It comprises annual operations, 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 operations, maintenance and capital renewal expenditure incurred in providing the service in a particular year. Life Cycle Expenditure may be compared to average Life Cycle Cost to give an initial indicator of life cycle sustainability.

Loans / borrowings

See borrowings.

Maintenance

All actions necessary for retaining an asset as near as practicable to its original condition, including regular ongoing day-to-day work necessary to keep assets operating, eg road patching but excluding rehabilitation or renewal. It is operating expenditure required to ensure that the asset reaches its expected useful life.

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.

• Reactive maintenance

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

Significant maintenance

Maintenance work to repair components or replace sub-components that needs to be identified as a specific maintenance item in the maintenance budget.

• Unplanned maintenance

Corrective work required in the short-term to restore an asset to working condition so it can continue to deliver the required service or to maintain its level of security and integrity.

Maintenance and renewal gap

Difference between estimated budgets and projected required expenditures for maintenance and renewal of assets to achieve/maintain specified service levels, totalled over a defined time (e.g. 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

The notion of materiality guides the margin of error acceptable, the degree of precision required and the extent of the disclosure required when preparing general purpose financial reports. Information is material if its omission, misstatement or nondisclosure has the potential, individually or collectively, to influence the economic decisions of users taken on the basis of the financial report or affect the discharge of accountability by the management or governing body of the entity.

Modern equivalent asset

Assets that replicate what is in existence with the most cost-effective asset performing the same level of service. It is the most cost efficient, currently available asset which will provide the same stream of services as the existing asset is capable of producing. It allows for technology changes and, improvements and efficiencies in production and installation techniques

Net present value (NPV)

The value to the organisation of the cash flows associated with an asset, liability, activity or event calculated using a discount rate to reflect the time value of money. It is the net amount of discounted total cash inflows after deducting the value of the discounted total cash outflows arising from eg the continued use and subsequent disposal of the asset after deducting the value of the discounted total cash outflows.

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.

Operations expenditure

Recurrent expenditure, which is continuously required to provide a service. In common use the term typically includes, eg power, fuel, staff, plant equipment, oncosts and overheads but excludes maintenance and depreciation. Maintenance and depreciation is on the other hand included in operating expenses.

Operating expense

The gross outflow of economic benefits, being cash and non cash items, during the period arising in the course of ordinary activities of an entity when those outflows result in decreases in equity, other than decreases relating to distributions to equity participants.

Pavement management system

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

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).

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 operations and maintenance expenditure.

Recurrent funding

Funding to pay for recurrent expenditure.

Rehabilitation

See capital renewal expenditure definition above.

Remaining useful life

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

Renewal

See capital renewal expenditure definition above.

Residual value

The estimated amount that an entity would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life.

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 total future service capacity of an asset. It is normally determined by reference to the operating capacity and economic life of an asset. A measure of service potential is used in the not-for-profit sector/public sector to value assets, particularly those not producing a cash flow.

Service potential remaining

A measure of the future economic benefits remaining in assets. It may be expressed in dollar values (Fair Value) or as a percentage of total anticipated future economic benefits. 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 (Depreciated Replacement Cost/Depreciable Amount).

Strategic Longer-Term Plan

A plan covering the term of office of councillors (4 years minimum) reflecting the needs of the community for the foreseeable future. It brings together the detailed requirements in the council's longer-term plans such as the asset management plan and the long-term financial plan. The plan is prepared in consultation with the community and details where the council is at that point in time, where it wants to go, how it is going to get there, mechanisms for monitoring the achievement of the outcomes and how the plan will be resourced.

Specific Maintenance

Replacement of higher value components/subcomponents 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.

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.

Value in Use

The present value of future cash flows expected to be derived from an asset or cash generating unit. 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 net cash inflows, where the entity would, if deprived of the asset, replace its remaining future economic benefits.

Source: IPWEA, 2009, Glossary