Goulburn Mulwaree Council

Development Servicing Plan for Water Supply, Sewerage and Stormwater

Final

September 2017

Presented by Hunter H2O

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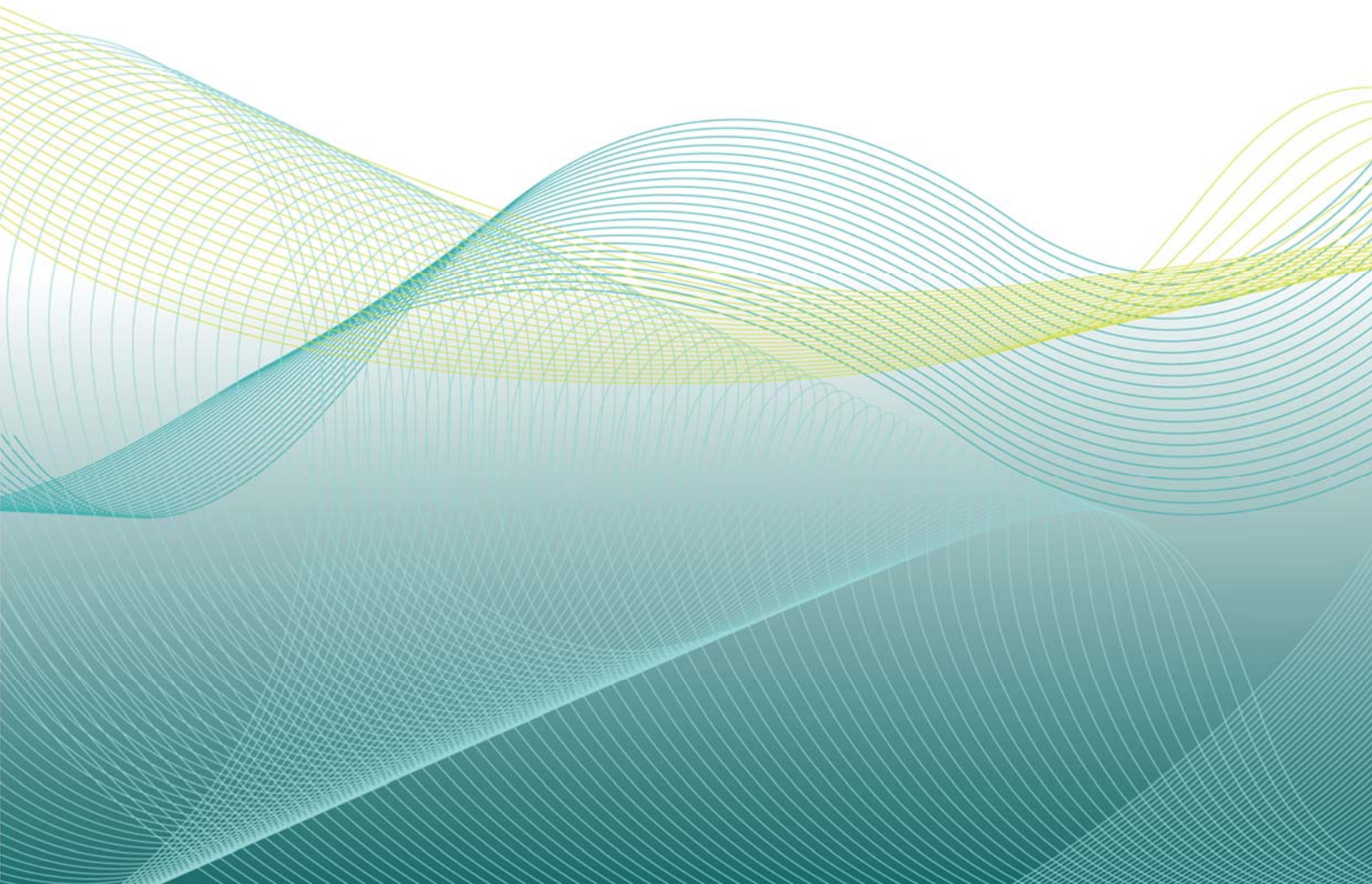

Report Details

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Summary

This Development Servicing Plan (DSP) covers water supply, sewerage and stormwater developer charges for the towns of Goulburn and Marulan and for the Marys Mount development area.

This DSP has been prepared in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000.*

The area covered by each DSP, and the existing and proposed works serving the area, are shown on the plans in Section 14.

The timing and expenditure for works serving the area covered by each DSP are shown in Section 4.

Levels of service to be provided in each DSP area are summarised in Section 5.

The water supply, sewerage and stormwater developer charges for the areas covered by this DSP document have been determined as follows:

	DSP Name	Developer Charge ($ per ET)	Cross-subsidy: Resulting increase in the Typical Residential Bill
Water Supply	Goulburn	5,621	1.0%
	Marulan		
	Marys Mount		
Sewerage	Goulburn	10,165	0.5% for Marulan, 0.6% for Goulburn and Marys Mount
	Marulan		
	Marys Mount		
Stormwater	Goulburn	2,541	N/A
	Marulan	1,325	
	Marys Mount		

Developer charges relating to this DSP will be reviewed after a period of 4 to 8 years, in accordance with the guidelines. In the period between any review, developer charges will be adjusted annually on the basis of the movements in the CPI for Sydney, excluding the impact of GST.

The developer shall be responsible for the full cost of the design and construction of water supply, sewerage and stormwater reticulation works within subdivisions.

Background information containing all the critical data including calculation models behind each DSP is available on request.

Contents

Tables

Figures

1 Introduction

Section 64 of the *Local Government Act, 1993* enables a local government council to levy developer charges for water supply, sewerage and stormwater. This derives from a cross-reference in that Act to Section 306 of the *Water Management Act 2000.*

A Development Servicing Plan (DSP) details the water supply, sewerage and/or stormwater developer charges to be levied on development areas utilising a water utility's water supply, sewerage and/or stormwater infrastructure.

This DSP covers water supply, sewerage and stormwater developer charges to Goulburn, Marulan and the Marys Mount development areas served by Goulburn Mulwaree Council (GMC).

This DSP has been prepared in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000.*

This DSP document supersedes any other requirements related to water supply, sewerage and stormwater developer charges for the areas covered by this DSP. This DSP takes precedence over any of Council's code or policies where there are any inconsistences relating to water supply, sewerage and stormwater developer charges.

2 Administration

2.1 DSP Name and Area Covered

The basis for defining the DSP area boundaries is the existing and future development served by the GMC water supply, sewerage and stormwater schemes. Separate DSPs have been prepared for the towns with separate water supply, sewerage and stormwater schemes (Goulburn and Marulan) and for development areas of over 500 lots (Marys Mount).

DSP Name	Area Covered
Goulburn	The area covered by this DSP is shown on Plan 14-1
Marys Mount	The area covered by this DSP is shown on Plan 14-5
Marulan	The area covered by this DSP is shown on Plan 14-9

2.2 Payment of Developer Charges

Developer charges will be determined and levied in accordance with the provisions of this DSP document at the time of considering an application for a compliance certificate under Section 305 of the *Water Management Act 2000* or a construction certificate under section 109 of the *Environmental Planning and Assessment Act 1979* or at the time of issuing a notice or other form of written advice, eg. Under the *SEPP (Exempt and Complying Development Codes) 2008*. The time limit for payment of developer charges will be included in the notice of determination or will be advised to the developer by a separate notice. The amount of any developer charges not paid within the specified time limit will lapse. Any subsequent determination of developer charges will be made in accordance with Council's then current DSP.

2.3 Dispute Resolution

Disputes will be resolved in accordance with Section 2.9 of the Guidelines. GMC is not a member of the Electricity and Water Ombudsman (EWON).

3 Demographic and Land Use Planning Information

3.1 Growth Projections

Growth projections for population for the entire Goulburn Mulwaree Local Government Area (LGA) are shown in Table 3-1. These projections are from the present year to 2046, which is Council's current planning horizon. The population in January 1996 (i.e. year 1995/1996) is also indicated. Note that as the population projections are for the entire LGA they included the population in unserviced villages and rural areas.

Table 3-1. Projected Population Growth for Areas Covered by this DSP

Year	Population	Growth Rate (% p.a.)
1995/96	24,169	0.4 – 1.8
To end of 2015/16	29,846	0.90
2016/17	30,114	0.90
2017/18	30,385	0.90
2018/19	30,659	0.90
2019/20	30,935	0.90
2020/21	31,213	0.80
2021/22	31,463	0.80
2022/23	31,714	0.80
2023/24	31,968	0.80
2024/25	32,224	0.80
2025/26	32,482	0.70
2026/27	32,709	0.70
2027/28	32,938	0.70
2028/29	33,168	0.70
2029/30	33,401	0.70
2030/31	33,634	0.70
2031/32	33,870	0.70
2032/33	34,107	0.70
2033/34	34,346	0.70
2034/35	34,586	0.70
2035/36	34,828	0.70
2036/37	35,072	0.70
2037/38	35,318	0.70
2038/39	35,565	0.70
2039/40	35,814	0.70
2040/41	36,064	0.70
2041/42	36,317	0.70
2042/43	36,571	0.70
2043/44	36,827	0.70
2044/45	37,085	0.70
2045/46	37,345	0.70

Growth projections for the number of Equivalent Tenements (ETs) are shown in the Table 3-2 for water supply and stormwater and in Table 3-3 for sewerage. The ETs in January 1996 (ie. year 1995/1996) are also indicated. ET calculations are included in section 7.3 and 8.3 of the DSP document.

Table 3-2. Projected Demand Growth in ET for Areas Covered by this DSP (Water Supply and Stormwater)

Service Area	ETs 1996	Current ETs 2016	Projected ETs 2046	Total New ETs	Proportion of Growth
Goulburn	13,599	16,045	18,998	2,953	0.67
Marulan	478	590	738	148	0.03
Marys Mount	0	749	2,025	1,276	0.29
Total	14,077	17,384	21,761	4,367	1.0

Table 3-3. Projected Demand Growth in ET for Areas Covered by this DSP (Sewerage)

Service Area	ETs 1996	Current ETs 2016	Projected ETs 2046	Total New ETs	Proportion of Growth
Goulburn	9,422	10,886	12,533	1,647	0.54
Marulan	478	590	738	148	0.05
Marys Mount	0	749	2,025	1,276	0.42
Total	9,900	12,225	15,296	3,071	1.0

3.2 Land Use Information

This DSP should be read in conjunction with the Goulburn Mulwaree Local Environmental Plan 2009.

4 Water Supply, Sewerage and Stormwater Infrastructure

Water Supply

GMC has two separate water supply systems; Goulburn and Marulan. Raw water to supply both systems is drawn from the Wollondilly River. Two dams, with a combined storage capacity of 15,250 ML, supply Goulburn. Marulan is supplied by an offtake from the Wollondilly River at Brayton.

The GMC system comprises a conventional water treatment works at Goulburn (35 ML/d), a micro-filtration water treatment work at Marulan (1.3 ML/d), 11 service reservoirs (50 ML combined capacity), seven water pumping stations , 74 km of transfer and trunk mains, and 219 km of reticulation mains.

The recently constructed Highland Source Project (HSP) consists of an 80 km pipeline and pumping station between Wingecarribee Reservoir and Goulburn and provides long term security to Goulburn's water supply system.

The existing water supply infrastructure servicing the areas covered by this DSP document are shown on Plans in Section 14.

Sewerage

GMC has two sewage treatment works providing secondary treatment for Goulburn and Marulan. The Goulburn system comprises 30,000 EP treatment capacity and 16 pumping stations. The Marulan systems comprises 1,000 EP treatment capacity with 8 pumping stations. Combined there are 12 km of rising mains and 227 km of gravity trunk mains and reticulation mains. Treated effluent from both treatment works is currently discharged to land.

A major upgrade of the Goulburn sewage treatment plant is scheduled to begin in 2016/17.

The existing sewerage infrastructure servicing the areas covered by this DSP document are shown on Plans in Section 14.

Stormwater

Stormwater drains to the Wollondilly River and the Mulwaree Ponds. The existing piped drainage network consists of over 100 km of pipes ranging in diameter from 150 mm to 2,100 mm. The urban drainage system also comprises detention basins, headwalls, pits and open drains.

The existing stormwater infrastructure servicing the area covered by this DSP are shown on Plans in Section 14.

4.1 Existing Capital Costs

The estimated MEERA capital cost of water supply, sewerage and stormwater capital works (including backlog works) servicing the areas covered by this DSP document are shown in Section 16. Note that only those assets constructed in the last 30 years are included.

4.2 Future Capital Works Program

The timing and expenditure for water supply, sewerage and stormwater capital works (including backlog works) servicing the area covered by this DSP document are shown in section 17.

4.3 Reticulation Works

The developer shall be responsible for the full cost of the design and construction of water supply, sewerage and stormwater reticulation works within subdivisions.

5 Levels of Service

System design and operation are based on providing the following levels of service (LOS). Typical levels of service are outlined below. Further information on levels of service is available from:

- GMC's Water Supply and Sewerage Strategic Business Plan (GHD, 2011);
- NSW Water and Sewerage Strategic Business Planning Guidelines, NSW Office of Water, July 2011, (available at www.water.nsw.gov.au).

Community consultation will be completed on the current levels of service during the review of the strategic business plan in 2017/18.

5.1 Water Supply

The LOS that apply to GMC's water supply scheme are the targets that Council aims to meet. They are not intended as a formal customer contract. Council's current LOS for water supply are outlined in Table 5-1.

Table 5-1. Level of Service for Water Supply

Description	Unit	Target LOS
Availability of Supply - Pressure		
Minimum pressure when delivering 15 L/minute	Meters head	30
Availability of Supply – Consumer Restrictions in Drought		
Level of restriction supplied through a repeat of the worst drought on record	% of normal usage	5/10/20
Frequency of restrictions (on average)	No/10 years	1
Availability of Supply – Quantities		
Domestic Peak Day	L/tenement/day	4,000
Domestic Annual	kL/tenement/year	250
Total Annual Average Consumption	ML/year	4,215
Supply Interruptions to Consumers (applies to 95% of all instances)		
Planned interruptions	% of total interruptions	95
Planned interruptions – notice to domestic customers	Days	1
Planned interruptions – notice to commercial customers	Days	7
Planned interruptions – notice to institutional and major industrial customers	Days	14
Unplanned interruptions – maximum duration	Hours	4
Unplanned interruptions - frequency	No/year/customer	1
Availability of Water for Fire-Fighting		
Compliance with the Local Government Regulations and the conditions established by the NSW Fire Brigade	% of area where minimum flow rates are achieved	100
Water Quality		
Sampling frequency	Samples/year	TBC
Microbiological compliance	%	100
Physical parameters compliance with ADWG	%	100
Chemical parameters compliance with ADWG	%	100
pH (6.5 – 8.5) compliance	%	100

Description	Unit	Target LOS
Turbidity compliance with ADWG (<5 NTU)	%	100
Total coliforms compliance with ADWG	%	100
Response Times to Customer Complaints of Supply Failure		
Working Hours – Priority 1 (defined as failure to maintain continuity or quality of supply to a large number of customers or to a critical user at a critical time)	Hours	Immediate
After Hours – Priority 1	Hours	Immediate
Working Hours – Priority 2 (defined as failure to maintain continuity or quality of supply to a small number of customers or to a critical user at non-critical time)	Hours	Immediate action and repair within 12 hours
After Hours – Priority 2	Hours	Immediate action and repair within 12 hours
Priority 3 (defined as failure to maintain continuity or quality of supply to a single customer)	Working Days	1
Priority 4 (defined as minor problem or complaint which can be dealt with at a time convenient to the customer and the water authority)	Days	5
Customer Complaints and Inquiries of General Nature		
Response to written complaints (other than supply failure)	Working Days	10
Response to personal complaints (other than supply failure)	Working Days	1
Special Customers		
Hospital – dialysis unit response to failure	Minutes	45
Abattoir		
Prison		

5.2 Sewerage

The LOS that apply to GMC's sewerage scheme are the targets that Council aims to meet. They are not intended as a formal customer contract. Council's current LOS for sewerage are outlined in Table 5-2.

Table 5-2. Level of Service for Sewerage

Description	Unit	Target LOS
Availability of Services		
Extent of domestic wastewater services	% of all tenements	100
Average System Failures		
Controlled, expected failures	No/year	2
Controlled, unexpected	No/ 10 years	2
Uncontrolled, unexpected – private property	No/year	200
Uncontrolled, unexpected – public property – sensitive areas	No/year	5
Uncontrolled, unexpected – public property – other areas	No/10km of main/year	1
Response Time to System Faults		
Working Hours – Priority 1 (defined as 'major failure to contain sewage within the sewer system or any problem affecting a critical user at a critical time')	Mins	Immediate
After Hours – Priority 1	Mins	Immediate action and repair

Description	Unit	Target LOS
Working Hours – Priority 2 (defined as 'minor failure to contain sewage within the sewer system or any problem affecting a critical user at a non-critical time')	Mins	Immediate action and repair within 12 hours
After Hours – Priority 2	Mins	Immediate action and repair within 12 hours
Priority 3 (defined as 'minor failure to contain sewage affecting a single property or as bad odours')	Working Day	1
Response Time to Customer Complaints and Inquiries of General Nature		
Written complaint of general nature (defined as 'minor operational problem, complaint, or inquiry, which can be dealt with at a time convenient to the customer and the local authority')	Days	10
Personal complaint of general nature	Days	2
Odours/ Vectors		
Incidents resulting in complaint	No/year	2
Impact of Wastewater Treatment Works on Surrounding Residents		
No. of days when odour is detectable outside the plant's buffer zone	No/year	0
No. of days when maximum level of noise is greater than 5dB above the background level	No/year	0
Effluent Discharge/ Biosolids Management		
Compliance with the licensing requirements	%	100

5.3 Stormwater

The LOS that apply to GMC's stormwater system are the targets that Council aims to meet. They are not intended as a formal customer contract. Council's current LOS for stormwater are outlined in Table 5-3.

Table 5-3. Level of Service for Stormwater

Description	Unit	Target LOS
Community Levels of Service		
Minimal disruption due to a bridge/culvert maintenance	% Satisfaction	> 90% Satisfaction
Satisfactory provision of waterway crossing during flooding	Number / annum	13
Provide safe drainage systems free from preventable hazards	Number of injuries or property damage	0
Technical Levels of Service		
Conveyance capacity – trunk mains	Average recurrence interval	1 in 100 year
Conveyance capacity – collection network	Average recurrence interval	1 in 20 year
Carry out routine maintenance as scheduled	Number/annum	3 times/annum
Ensure access and reduced flooding etc by pre-plan maintenance	Number of access issues per year	0
Provide stormwater services in a cost effective manner	% budget overrun	No budget overrun
Provide clear safety signage	Number of defects per annum	0

6 Design Parameters

6.1 Water Supply

Investigation and design of water supply system components is based on the Water Services Association of Australia "Water Supply Code of Australia WSA 03-2011 Version 3.1".

The following technical reports relate to the system components in this DSP document:

- Council Standards for Engineering Works Policy
- Council standards for Engineering Works Preface and Supplementary Notes

6.2 Sewerage

Investigation and design of sewerage system components is based on:

- Water Services Association of Australia "Gravity Sewerage Code of Australia WSA 02-2014 Version 3.1"
- Water Services Association of Australia "Sewage Pumping Code of Australia WSA 04-2005 Version 2.1"

The following technical reports relate to the system components in this DSP document:

- Council Standards for Engineering Works Policy
- Council standards for Engineering Works Preface and Supplementary Notes

6.3 Stormwater

Investigation and design of stormwater system components is based on:

- Goulburn Mulwaree Council Stormwater Drainage Design Handbook (March 2013)
- Council Standards for Engineering Works Policy
- Council standards for Engineering Works Preface and Supplementary Notes

7 Developer Charges Calculation – Water Supply

All new properties and properties with change in use which are subject to payment of water supply charges are liable for payment of developer charges for water supply. An ET is the basic unit to determine the demand that the development will place on the water supply system. One ET represents the equivalent demand from a single, detached residential dwelling. GMC uses the NSW Water Directorate's Guidelines for Determining Water ET Figures.

Credit for existing use is applied in the calculation of the ET loadings, as the developer charges are levied for additional ET loading only. For example, the first lot in a residential subdivision is exempt from developer charges where the lot is already connected to the water supply system. Properties not already rated for water supply do not receive the one lot credit.

7.1 Summary

The developer charges for the area covered by this DSP document area are as follows:

Table 7-1. Summary of Proposed Water Supply Developer Charges

DSP Area	Capital Charge ($ per ET)	Reduction Amount ($ per ET)	Calculated Maximum Developer Charge ($ per ET)	Adopted Developer Charge ($ per ET)
Goulburn	8,434	2,813	5,621	5,621
Marulan	12,331	2,622	8,328	5,621
Marys Mount	10,824	2,813	8,137	5,621

These amounts have been calculated on the basis of the information presented in Sections 7.2 to 7.7.

7.2 Service Areas

The water supply service areas and the basis of determining the service areas are as follows:

Service Area	Basis of determining the service area
Goulburn	Area serviced by a separate water supply distribution system
Marulan	Area serviced by a separate water supply distribution system
Marys Mount	New development area over 500 lots

7.3 Equivalent Tenements (ETs)

As indicated in Section 5.1, one of the key LOS for GMC's water supply is "average water supply to be supplied for a detached residential dwelling (1 ET)". GMC's average annual residential water consumption is lower than the State-wide average of 250 kL/annum. Residential water consumption decreased significantly during the 2006/07 drought and consumption has remained lower than 250 kL/year during recent years. The average annual residential water consumption for 2014/15 was 152 kL per property for the Goulburn water supply scheme and 146 kL per property for the Marulan water supply scheme.

For each service area, the number of ETs to be served has been determined as the estimated annual water to be supplied to the service area divided by the volume of 1 ET. ET projections for each service area are shown in Table 7-2. The ETs in January 1996 are also provided.

Table 7-2. ET Projections for Water Supply

Year	Number of ETs		
	Goulburn	Marulan	Marys Mount
January 1996	13,599	478	0
2015/16	16,045	590	749
2016/17	16,122	595	823
2017/18	16,200	601	897
2018/19	16,280	606	970
2019/20	16,362	612	1,044
2020/21	16,444	617	1,118
2021/22	16,511	622	1,192
2022/23	16,579	627	1,266
2023/24	16,647	632	1,340
2024/25	16,717	637	1,414
2025/26	16,788	642	1,488
2026/27	16,842	647	1,562
2027/28	16,897	651	1,636
2028/29	16,953	656	1,710
2029/30	17,010	660	1,784
2030/31	17,067	665	1,858
2031/32	17,126	670	1,932
2032/33	17,185	674	2,006
2033/34	17,301	679	2,025
2034/35	17,436	684	2,025
2035/36	17,572	689	2,025
2036/37	17,709	693	2,025
2037/38	17,847	698	2,025
2038/39	17,986	703	2,025
2039/40	18,127	708	2,025
2040/41	18,268	713	2,025
2041/42	18,410	718	2,025
2042/43	18,553	723	2,025
2043/44	18,697	728	2,025
2044/45	18,842	733	2,025
30th year 2045/46	18,988	738	2,025

ET calculations details for each service area are shown in Section 15.

7.4 Capital Charge

The capital charge for each service area covered by this DSP document has been calculated using the NPV spreadsheet method.

Under the NPV spreadsheet method, the capital cost of relevant assets and projected ETs served in a service area are entered into a spreadsheet. These capital costs are only for the share of the asset capacity used in the service area. The PV of capital cost and the PV of new ETs are calculated, and the capital charge per ET is the PV of the capital cost divided by the PV of the ETs. A 3% discount rate was applied for pre-1996 infrastructure and a 5% discount rate was applied to post 1996 and future assets, in accordance with the DPI guidelines.

Calculation details for PV of ETs and PV of capital costs for each service area are shown in Section 18. The summary of the capital charge calculations is shown in Table 7-3.

Table 7-3. Capital charge calculation for Water Supply

Service Area	PV of New ETs for pre-1996 assets @ 3%	PV of New ETs for post-1996 assets @ 5%	PV of capital cost for pre-1996 assets @ 3% ($)	PV of capital cost for post-1996 assets @ 5% ($)	Capital charge for pre-1996 assets per ET ($)	Capital charge for post-1996 assets per ET ($)	Capital charge per ET ($)
Goulburn	2,948	2,102	1,838,518	16,417,748	624	7,811	8,434
Marulan	136	97	0	1,201,462	0	12,331	12,331
Marys Mount	1,020	671	130,055	7,178,319	128	10,696	10,824

7.5 DSP Area

Table 7-4 shows the agglomeration of service areas into DSP areas of within 30% of the highest capital charge. The Marulan and Marys Mount service areas are agglomerated into a single DSP area.

Table 7-4. Agglomeration of Service Areas

Service Area	Capital Charge (2016/17$ per ET)	Percentage of Highest Capital Charge DSP Area A	Percentage of Highest Capital Charge DSP Area B
Marulan	12,331	100%	
Marys Mount	10,824	88%	
Goulburn	8,434	68%	100%

Weighted average capital charge for each DSP area is calculated by weighting by the PV of new ETs in each service areas. The calculation is shown in Table 7-5.

Table 7-5. Weighted average capital charge

DSP area	Service area	Capital charge for each service area ($ per ET)	New ETs in service area	PV of new ETs in service area	% of PV of new ETs in DSP area	Weighted component of the capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)
A	Marulan	12,331	148	81	8.4%	1,030	10,950
	Marys Mount	10,824	1,276	884	91.6%	9,920	
B	Goulburn	8,434	2,943	1,410	100.0%	8,434	8,434

Utility-wide weighted average capital charge: $ 9,456 per ET

7.6 Reduction Amount

GMC has adopted the NPV of Annual Bills method to calculate the Reduction Amount. This method involves calculation of the PV of the future net income, which is the difference between the revenue from annual bills, and annual OMA cost, projected for new development over the next 30 years. This is divided by the PV of the new ETs over 30 years to give the reduction amount.

GMC has two separate tariff structure for the service areas covered by this DSP document, and a reduction amount has been separately calculated for each tariff area, as shown in Table 7-6 for Goulburn and Marys Mount and in Table 7-7 for Marulan.

Table 7-6. Calculation of the Reduction Amount for Water Supply for Goulburn and Marys Mount Service Areas

Annual bill at the commencement of the DSP = $ 659 per ET

OMA Cost at the commencement of the DSP = $ 426 per ET

Net income = Annual bill – OMA cost = $ 233 per ET

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2015/16	16,793						
2016/17	16,944	151	2,294	151	35,246	6,452,574	2,813
2017/18	17,097	152		304	70,809		
2018/19	17,251	154		458	106,692		
2019/20	17,406	155		613	142,898		
2020/21	17,563	157		769	179,430		
2021/22	17,703	141		910	212,195		
2022/23	17,845	142		1,052	245,222		
2023/24	17,988	143		1,194	278,514		
2024/25	18,131	144		1,338	312,072		
2025/26	18,276	145		1,483	345,898		
2026/27	18,404	128		1,611	375,732		
2027/28	18,533	129		1,740	405,776		
2028/29	18,663	130		1,870	436,030		
2029/30	18,794	131		2,000	466,496		
2030/31	18,925	132		2,132	497,174		
2031/32	19,058	132		2,264	528,068		
2032/33	19,191	133		2,398	559,178		
2033/34	19,325	134		2,532	590,506		
2034/35	19,461	135		2,667	622,053		
2035/36	19,597	136		2,804	653,820		
2036/37	19,734	137		2,941	685,811		
2037/38	19,872	138		3,079	718,025		
2038/39	20,011	139		3,218	750,464		
2039/40	20,151	140		3,358	783,131		
2040/41	20,292	141		3,499	816,026		
2041/42	20,434	142		3,641	849,152		
2042/43	20,578	143		3,784	882,510		
2043/44	20,722	144		3,928	916,101		
2044/45	20,867	145		4,073	949,927		
2045/46	21,013	146		4,220	983,990		

Table 7-7. Calculation of the Reduction Amount for Water Supply for Marulan Service Area

Annual bill at the commencement of the DSP = $ 643 per ET

OMA Cost at the commencement of the DSP = $ 426 per ET

Net income = Annual bill – OMA cost = $ 217 per ET

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2015/16	590						
2016/17	595	5	81	5	1,154	211,351	2,622
2017/18	601	5		11	2,319		
2018/19	606	5		16	3,495		
2019/20	612	5		22	4,681		
2020/21	617	6		27	5,877		
2021/22	622	5		32	6,950		
2022/23	627	5		37	8,032		
2023/24	632	5		42	9,123		
2024/25	637	5		47	10,222		
2025/26	642	5		52	11,330		
2026/27	647	4		57	12,307		
2027/28	651	5		61	13,291		
2028/29	656	5		66	14,282		
2029/30	660	5		70	15,280		
2030/31	665	5		75	16,285		
2031/32	670	5		80	17,297		
2032/33	674	5		84	18,316		
2033/34	679	5		89	19,342		
2034/35	684	5		94	20,375		
2035/36	689	5		99	21,416		
2036/37	693	5		103	22,463		
2037/38	698	5		108	23,519		
2038/39	703	5		113	24,581		
2039/40	708	5		118	25,651		
2040/41	713	5		123	26,729		
2041/42	718	5		128	27,814		
2042/43	723	5		133	28,906		
2043/44	728	5		138	30,006		
2044/45	733	5		143	31,114		
2045/46	738	5		148	32,230		

7.7 Cross-Subsidy

The cross-subsidy is the difference (%) between the annual bill with the calculated maximum developer charge and the proposed lower developer charge.

LWUs may elect to cap the developer charges for small villages in order to maintain affordability and to avoid 'stranded' assets in such villages. LWUs may also cap other developer charges to maintain affordability, subject to adopting a commercial developer charge which recovers a significant proportion of the capital cost of the infrastructure. GMC has decided to apply a cross subsidy to reduce Marulan's developer charge to be the same as Goulburn's so that development is not impeded in Marulan by higher developer charges.

The cross-subsidy, resulting from capping of developer charges must be disclosed in the DSP, the utility's Annual Report, annual Operational Plan and in commination materials for consultation with stakeholders as noted above.

Two options were developed and examined as follows:

Option 1 – No cross subsidy – Calculated maximum developer charge

Option 2 – Moderate cross subsidy - to reduce Marulan and Marys Mount charges to be equal to Goulburn charges – adopted.

A summary of the developer charges option and cross-subsidy is shown in Table 7-8.

Table 7-8 Developer Charge Options and Cross-subsidy

	DSP Area	Service Area	Capital Charge for Service Area ($ per ET)	PV of new ETs over 30 years	Weighted component of capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)	Reduct-ion Amount ($ per ET)	Calculated Maximum Developer Charge ($ per ET)	Proposed Develop-er Charge ($ per ET)	Weighted average cross-subsidy to developer charge ($ per ET)
Option 1 - No Cross Subsidy		Marulan	12,331	81	1,030	10,950	2,622	8,328	8,328	0
	A	Marys Mount	10,824	884	9,920	10,950	2,813	8,137	8,137	
	B	Goulburn	8,434	1410	8,434	8,434	2,813	5,621	5,621	
Option 2 - Cross Subsidy		Marulan	12,331	81	1,030	10,950	2,622	8,328	5,621	827
	A	Marys Mount	10,824	884	9,920	10,950	2,813	8,137	5,621	
	B	Goulburn	8,434	1410	8,434	8,434	2,813	5,621	5,621	

The impact of the cross-subsidies on the annual water supply bill for each option are summarised in Table 7-9 and shown in Figure 7-1 and Figure 7-2 Figure 7-1 for Marulan and for Goulburn and Marys Mount.

Table 7-9. Impact of Cross-subsidies on Annual Water Bill

Option	Service Area(s)	Required Annual Water Supply Bill per ET ($)	Resulting Increase in Annual Water Supply Bill (%)
1 – No Cross Subsidy	Goulburn & Marys Mount	$659.20	0.0%
	Marulan	$643.40	0.0%
2 – Adopted Cross-subsidy	Goulburn & Marys Mount	$665.55	1.0%
	Marulan	$649.75	1.0%

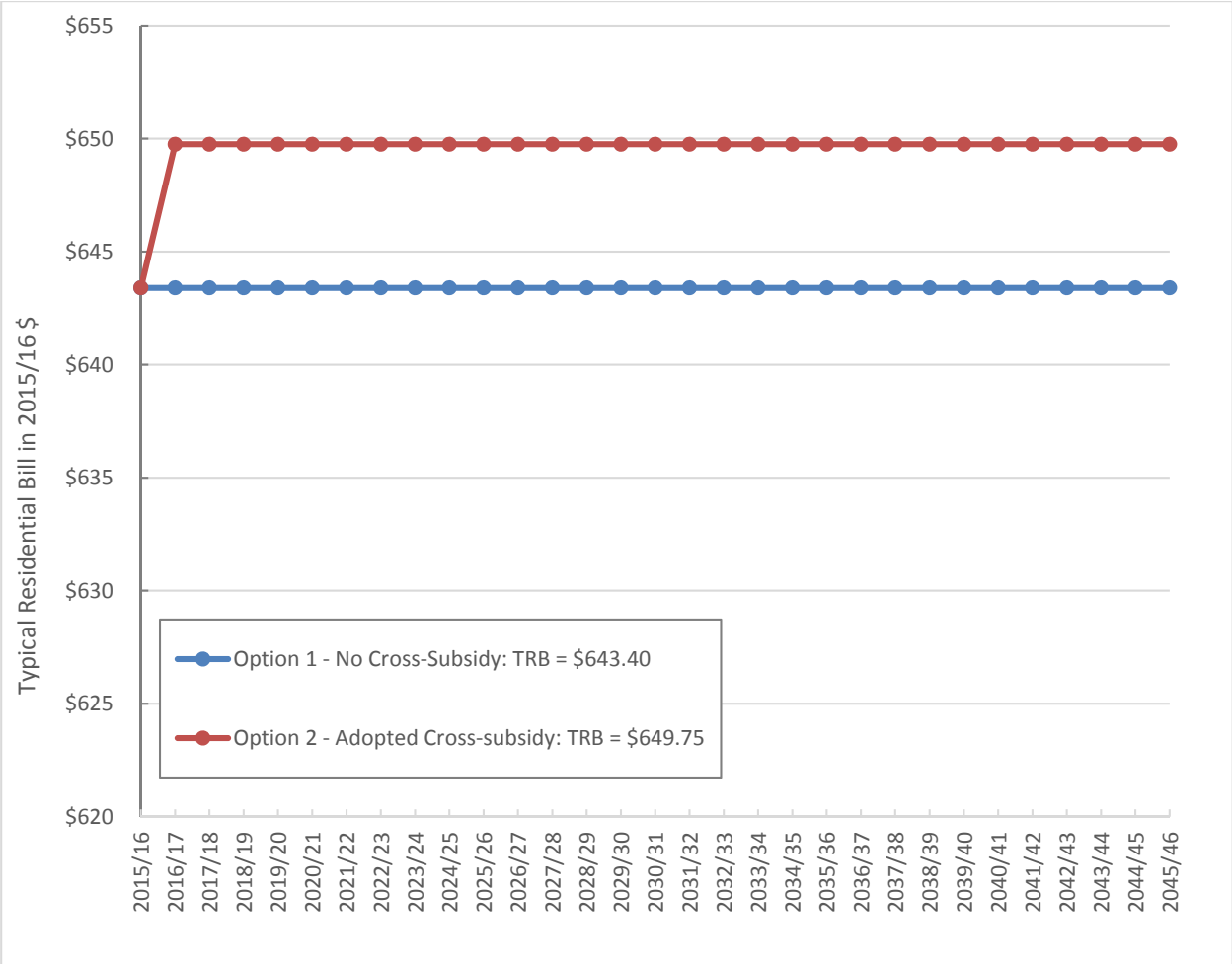


Figure 7-1 Impact of Developer Charges Option on TRB (Water Supply) – Marulan

Notes:

1. Option 1 involves a developer charge of $8,328/ET (Marulan), $8,137/ET (Marys Mount) and $5,621/ET (Goulburn), with no cross-subsidy
2. Option 2 involves a developer charge of $5,621/ET for all service areas requiring an increase of 1.0% in each year's TRB

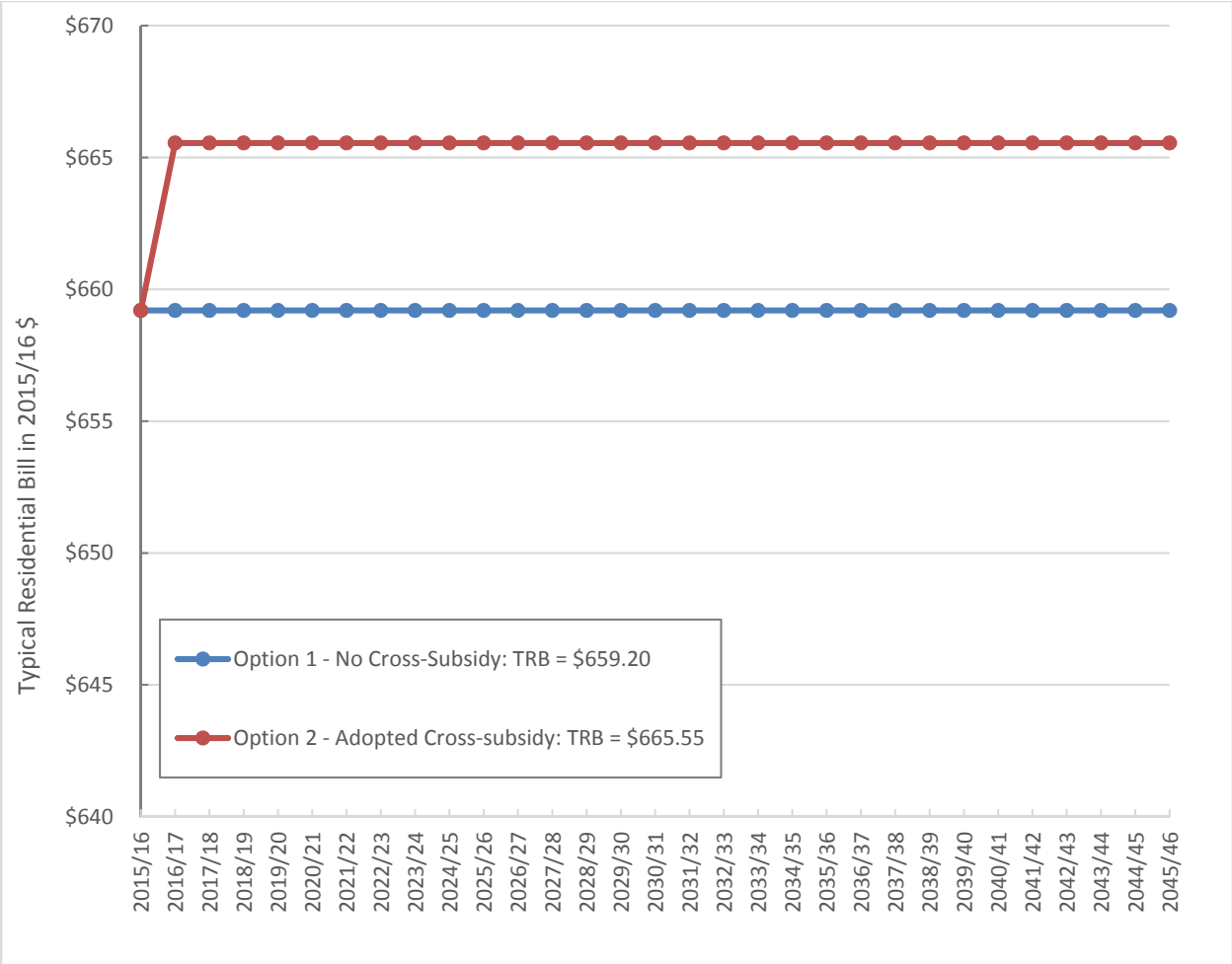


Figure 7-2 Impact of Developer Charges Option on TRB (Water Supply) – Goulburn and Marys Mount

Notes:

1. Option 1 involves a developer charge of $8,328/ET (Marulan), $8,137/ET (Marys Mount) and $5,621/ET (Goulburn), with no cross-subsidy
2. Option 2 involves a developer charge of $5,621/ET for all service areas requiring an increase of 1.0% in each year's TRB

8 Developer Charges Calculation – Sewerage

All new properties and properties with change in use which are subject to payment of sewerage charges are liable for payment of developer charges. An ET is the basic unit to determine the loading that the development will place on the sewerage system. One ET represents the equivalent loading from a single, detached residential dwelling. GMC uses the NSW Water Directorate's Guidelines for Determining Water ET Figures.

Credit for existing use is applied in the calculation of the ET loadings, as the developer charges are levied for additional ET loading only. For example, the first lot in a residential subdivision is exempt from developer charges where the lot is already connected to the sewerage system. Properties not already rated for sewerage do not receive the one lot credit.

8.1 Summary

The developer charges for the area covered by this DSP are as follows:

Table 8-1. Summary of Proposed Developer Charges for Sewerage

DSP Area	Capital Charge ($ per ET)	Reduction Amount ($ per ET)	Calculated Maximum Developer Charge ($ per ET)	Adopted Developer Charge ($ per ET)
Goulburn	12,475	4,753	10,165	10,165
Marulan	29,212	6,562	22,650	10,165
Marys Mount	16,865	4,753	10,165	10,165

These amounts have been calculated on the basis of the information presented in Sections 8.2 to 8.7.

8.2 Service Areas

The sewerage service areas and the basis of determining the service areas are as follows:

Service Area	Basis of determining the service area
Goulburn	Area serviced by a separate wastewater treatment works
Marulan	Area serviced by a separate wastewater treatment works
Marys Mount	New development area over 500 lots

8.3 Equivalent Tenements (ETs)

The number of ETs served by a sewage treatment works is determined by dividing the metered average dry weather flow (ADWF) received into the treatment works by the product of 200 L/EP/day and the utility's occupancy rate.

The measured ADWF at the Goulburn sewage treatment works (which services both Goulburn and Marys Mount) was 5,530 kL/day (2014/15 data). The number of ET for Goulburn and Marys Mount was determined based on the occupancy rate of 2.4 persons per dwelling (2011 census).

There was no measured ADWF available at the Marulan sewage treatment works, and the sewer ET were assumed to be equal to the water ET. The occupancy rate for Marulan was 2.6 persons per dwelling (2011 census).

ET projections for each service area are shown in Table 8-2. The ETs in January 1996 are also provided.

Table 8-2. ET Projections for Sewerage

Year	Number of ETs		
	Goulburn	Marulan	Marys Mount
1995/96	9,422	478	0
2014/2015	10,838	584	682
Current year 2015/16	10,886	590	749
2016/17	10,917	595	823
2017/18	10,949	601	897
2018/19	10,981	606	971
2019/20	11,015	611	1,045
2020/21	11,049	617	1,119
2021/22	11,073	622	1,193
2022/23	11,097	627	1,267
2023/24	11,122	632	1,341
2024/25	11,148	637	1,415
2025/26	11,174	642	1,489
2026/27	11,189	646	1,563
2027/28	11,204	651	1,637
2028/29	11,220	656	1,711
2029/30	11,237	660	1,785
2030/31	11,254	665	1,859
2031/32	11,272	669	1,933
2032/33	11,290	674	2,007
2033/34	11,364	679	2,025
2034/35	11,458	684	2,025
2035/36	11,552	688	2,025
2036/37	11,647	693	2,025
2037/38	11,743	698	2,025
2038/39	11,839	703	2,025
2039/40	11,936	708	2,025
2040/41	12,034	713	2,025
2041/42	12,133	718	2,025
2042/43	12,232	723	2,025
2043/44	12,332	728	2,025
2044/45	12,432	733	2,025
30th year 2045/46	12,533	738	2,025

ET calculations details for each service area are shown in Section 15.

8.4 Capital Charge

The capital charge for each service area covered by this DSP has been calculated using the NPV spreadsheet method. Calculation details for PV of ETs and PV of capital costs for each service area are shown in Section 18. The summary of the capital charge calculations is shown in Table 8-3.

Table 8-3. Capital charge calculation for Sewerage

Service Area	PV of New ETs for pre-1996 assets @ 3%	PV of New ETs for post-1996 assets @5%	PV of capital cost for pre-1996 assets @ 3% ($)	PV of capital cost for post-1996 assets @ 5% ($)	Capital charge for pre-1996 assets ($)	Capital charge for post-1996 assets ($)	Capital charge per ET ($)
Goulburn	1,670	1,251	1,835,372	14,235,082	1,099	11,376	12,475
Marulan	136	97	432,086	2,536,585	3,169	26,043	29,212
Marys Mount	1,019	670	5,075,698	7,962,040	4,982	11,884	16,865

8.5 DSP Area

Table 8-4 shows the agglomeration of service areas into DSP areas of within 30% of the highest capital charge. The Marulan and Marys Mount service areas are agglomerated into a single DSP area.

Table 8-4. Agglomeration of Service Areas

Service Area	Capital Charge (2016/17$ per ET)	Percentage of Highest Capital Charge DSP Area A	Percentage of Highest Capital Charge DSP Area B
Marulan	29,212	100%	
Marys Mount	16,865	58%	100%
Goulburn	12,475		74%

Weighted average capital charge for each DSP area is calculated by weighting by the PV of new ETs in each service areas. The calculation is shown in Table 8-5.

Table 8-5. Weighted average capital charge

DSP area	Service area	Capital charge for each service area ($ per ET)	New ETs in service area	PV of new ETs in service area	% of PV of new ETs in DSP area	Weighted component of the capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)
A	Marulan	29,212	148	81	100.0%	29,212	29,212
B	Marys Mount	16,865	1,276	884	55.6%	9,382	14,917
	Goulburn	12,475	1,647	705	44.4%	5,535	

Utility-wide weighted average capital charge: $8,720 per ET

8.6 Reduction Amount

GMC has adopted the NPV of Annual Bills method to calculate the Reduction Amount. This method involves calculation of the PV of the future net income, which is the difference between the revenue from annual bills, and annual OMA cost, projected for new development over the next 30 years. This is divided by the PV of the new ETs over 30 years to give the reduction amount.

GMC has two separate tariff structure for the service areas covered by this DSP document, and a reduction amount has been calculated for each tariff area, as shown in Table 8-6 for Goulburn and Marys Mount and in

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2015/16	11,635						
2016/17	11,740	105	1,589	105	41,258	7,553,316	4,753
2017/18	11,846	106		210	82,888		
2018/19	11,952	107		317	124,893		
2019/20	12,060	108		425	167,275		
2020/21	12,168	109		533	210,039		
2021/22	12,266	97		630	248,393		
2022/23	12,364	98		729	287,055		
2023/24	12,463	99		827	326,025		
2024/25	12,562	100		927	365,308		
2025/26	12,663	100		1,028	404,904		
2026/27	12,752	89		1,116	439,828		
2027/28	12,841	89		1,206	474,997		
2028/29	12,931	90		1,295	510,412		
2029/30	13,021	91		1,386	546,075		
2030/31	13,112	91		1,477	581,987		
2031/32	13,204	92		1,569	618,151		

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2032/33	13,297	92		1,661	654,568		
2033/34	13,390	93		1,754	691,240		
2034/35	13,483	94		1,848	728,168		
2035/36	13,578	94		1,943	765,355		
2036/37	13,673	95		2,038	802,803		
2037/38	13,768	96		2,133	840,512		
2038/39	13,865	96		2,230	878,486		
2039/40	13,962	97		2,327	916,725		
2040/41	14,060	98		2,424	955,232		
2041/42	14,158	98		2,523	994,008		
2042/43	14,257	99		2,622	1,033,056		
2043/44	14,357	100		2,722	1,072,378		
2044/45	14,457	100		2,822	1,111,974		
2045/46	14,559	101		2,923	1,151,848		

Table 8-7 for Marulan.

Table 8-6. Calculation of the Reduction Amount for Sewerage Goulburn and Marys Mount

Annual bill at the commencement of the DSP = $724 per ET

OMA Cost at the commencement of the DSP = $330 per ET

Net income = Annual bill – OMA cost = $394 per ET

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2015/16	11,635						
2016/17	11,740	105	1,589	105	41,258	7,553,316	4,753
2017/18	11,846	106		210	82,888		
2018/19	11,952	107		317	124,893		
2019/20	12,060	108		425	167,275		
2020/21	12,168	109		533	210,039		
2021/22	12,266	97		630	248,393		
2022/23	12,364	98		729	287,055		
2023/24	12,463	99		827	326,025		
2024/25	12,562	100		927	365,308		
2025/26	12,663	100		1,028	404,904		
2026/27	12,752	89		1,116	439,828		
2027/28	12,841	89		1,206	474,997		
2028/29	12,931	90		1,295	510,412		
2029/30	13,021	91		1,386	546,075		
2030/31	13,112	91		1,477	581,987		
2031/32	13,204	92		1,569	618,151		
2032/33	13,297	92		1,661	654,568		
2033/34	13,390	93		1,754	691,240		
2034/35	13,483	94		1,848	728,168		
2035/36	13,578	94		1,943	765,355		
2036/37	13,673	95		2,038	802,803		
2037/38	13,768	96		2,133	840,512		
2038/39	13,865	96		2,230	878,486		
2039/40	13,962	97		2,327	916,725		
2040/41	14,060	98		2,424	955,232		
2041/42	14,158	98		2,523	994,008		
2042/43	14,257	99		2,622	1,033,056		
2043/44	14,357	100		2,722	1,072,378		
2044/45	14,457	100		2,822	1,111,974		
2045/46	14,559	101		2,923	1,151,848		

Table 8-7. Calculation of the Reduction Amount for Sewerage Marulan

Annual bill at the commencement of the DSP = $ 874 per ET

OMA Cost at the commencement of the DSP = $ 330 per ET

Net income = Annual bill – OMA cost = $ 544 per ET

Year	Total ETs	New ETs	PV of new ETs	Cumulative new ETs	Net income from new ETs ($)	PV of net income from new ETs ($)	Reduction Amount ($ per ET)
2015/16	590						
2016/17	595	5	81	5	$2,888	528,690	6,562
2017/18	601	5		11	$5,802		
2018/19	606	5		16	$8,742		
2019/20	611	5		22	$11,708		
2020/21	617	6		27	$14,702		
2021/22	622	5		32	$17,386		
2022/23	627	5		37	$20,092		
2023/24	632	5		42	$22,820		
2024/25	637	5		47	$25,569		
2025/26	642	5		52	$28,341		
2026/27	646	4		57	$30,786		
2027/28	651	5		61	$33,247		
2028/29	656	5		66	$35,726		
2029/30	660	5		70	$38,222		
2030/31	665	5		75	$40,736		
2031/32	669	5		80	$43,267		
2032/33	674	5		84	$45,816		
2033/34	679	5		89	$48,383		
2034/35	684	5		94	$50,968		
2035/36	688	5		98	$53,571		
2036/37	693	5		103	$56,192		
2037/38	698	5		108	$58,831		
2038/39	703	5		113	$61,489		
2039/40	708	5		118	$64,166		
2040/41	713	5		123	$66,861		
2041/42	718	5		128	$69,575		
2042/43	723	5		133	$72,308		
2043/44	728	5		138	$75,060		
2044/45	733	5		143	$77,832		
2045/46	738	5		148	$80,623		

8.7 Cross-Subsidy

As discussed in Section 7.7, the cross-subsidy is the difference (%) between the annual bill with the calculated maximum developer charge and the proposed lower developer charge. GMC has decided to apply a cross subsidy to reduce Marulan's developer charge to be the same as Goulburn's so that development is not impeded in Marulan by higher developer charges.

Two options were developed and examined as follows:

Option 1 – No cross subsidy – Calculated maximum developer charge

Option 2 – Moderate cross subsidy - to reduce Marulan charges to be equal to Goulburn charges – adopted.

A summary of the developer charges option and cross-subsidy is shown in Table 7-7Table 8-8.

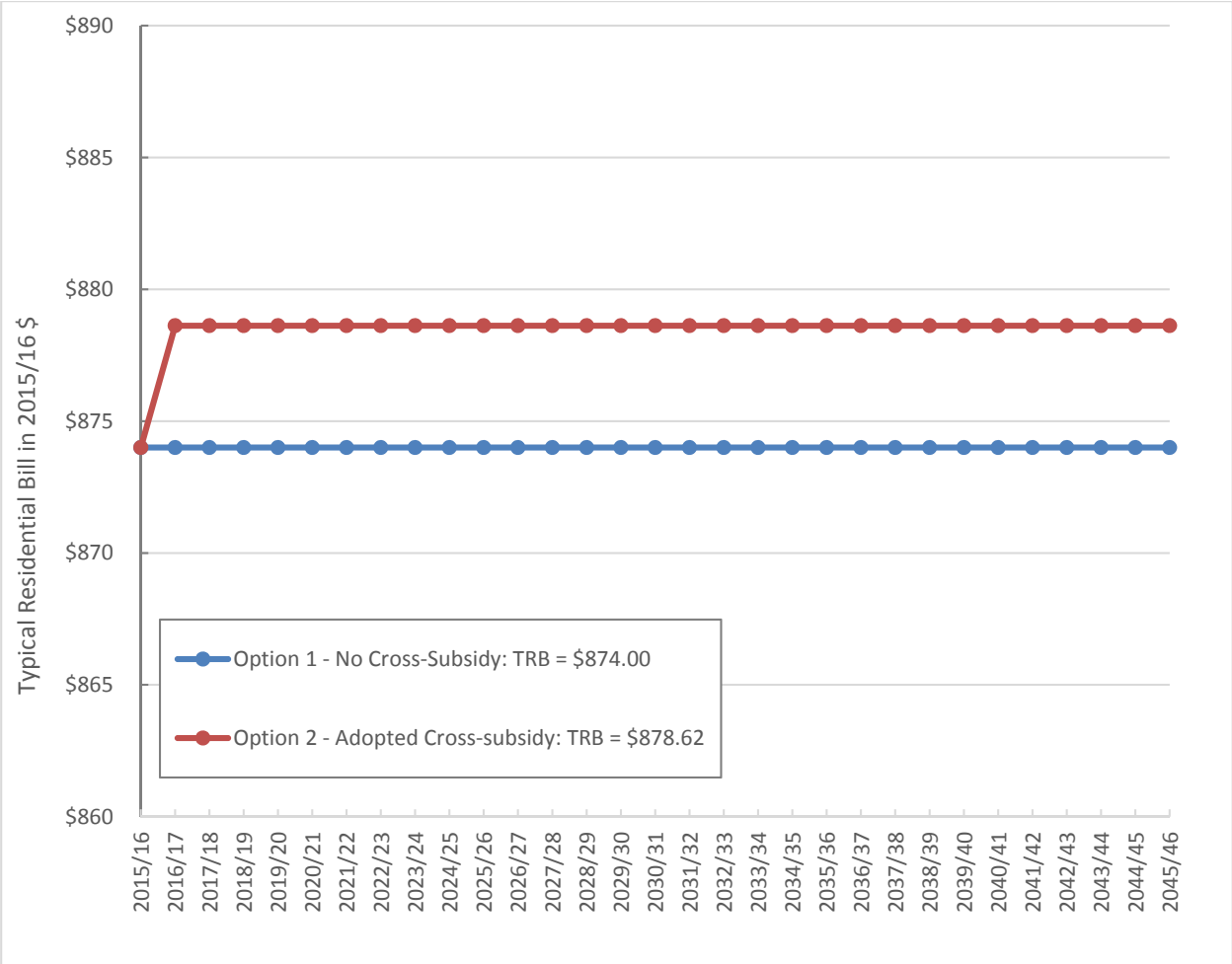
Table 8-8 Developer Charge Options and Cross-subsidy

	DSP Area	Service Area	Capital Charge for Service Area ($ per ET)	PV of new ETs over 30 years	Weighted component of capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)	Reduct-ion Amount ($ per ET)	Calculated Maximum Developer Charge ($ per ET)	Proposed Develop-er Charge ($ per ET)	Weighted average cross-subsidy to developer charge ($ per ET)
Option 1 - No Cross Subsidy	A	Marulan	29,212	81	29,212	29,212	6,562	22,650	22,650	0
	B	Marys Mount	16,865	884	9,382	14,917	4,753	10,165	10,165	
		Goulburn	12,475	705	5,535					
Option 2 - Cross Subsidy	A	Marulan	29,212	81	29,212	29,212	6,562	22,650	10,165	602
	B	Marys Mount	16,865	884	9,382	14,917	4,753	10,165		
		Goulburn	12,475	705	5,535					

The impact of the cross-subsidies on the annual sewerage bill for each option are summarised in Table 8-9 and shown in Figure 8-1 (Marulan) and Figure 8-2 (Goulburn and Marys Mount).

Table 8-9. Impact of Cross-subsidies on Sewerage Bill

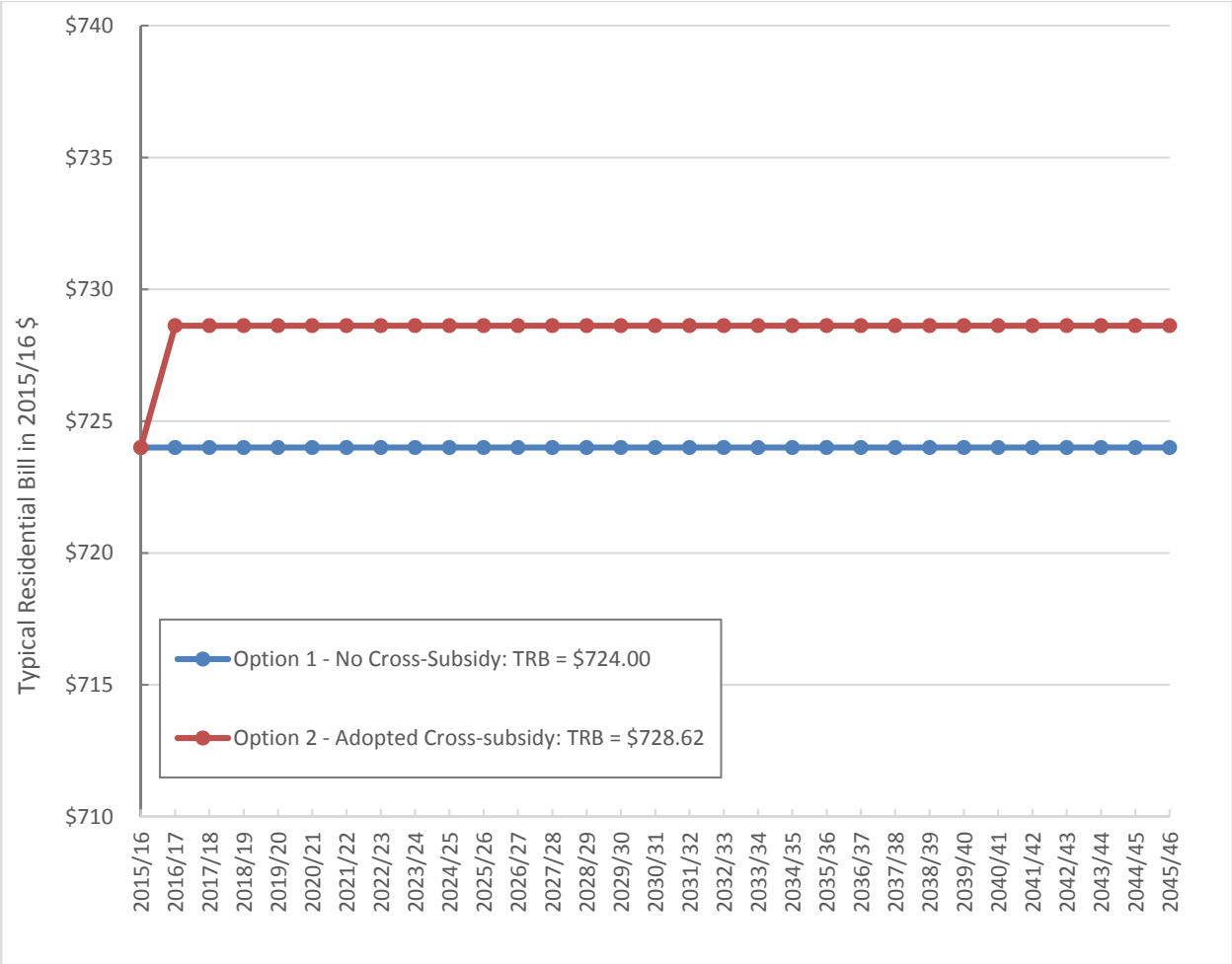
Option	Service Area(s)	Required Annual Sewerage Bill per ET ($)	Resulting Increase in Annual Sewerage Bill (%)
1 – No Cross Subsidy	Goulburn & Marys Mount	$724.00	0.0%
	Marulan	$874.00	0.0%
2 – Adopted Cross-subsidy	Goulburn & Marys Mount	$728.62	0.6%
	Marulan	$878.62	0.5%



Notes:

1. Option 1 involves a developer charge of $22,650/ET (Marulan) and $10,165/ET (Goulburn and Marys Mount) , with no cross-subsidy
2. Option 2 involves a developer charge of $10,165/ET for all service areas, requiring an increase of 0.5% in each year's TRB

Figure 8-1 Impact of Developer Charges Option on TRB (Sewerage) – Marulan



Notes:

1. Option 1 involves a developer charge of $22,650/ET (Marulan) and $10,165/ET (Goulburn and Marys Mount) , with no cross-subsidy
2. Option 2 involves a developer charge of $10,165/ET for all service areas, requiring an increase of 0.6% in each year's TRB

Figure 8-2 Impact of Developer Charges Option on TRB (Sewerage) – Goulburn and Marys Mount

9 Developer Charges Calculation – Stormwater

All new properties and properties with increase in impervious area are liable for payment of developer charges for stormwater. For stormwater, one ET represents the equivalent runoff from a single, detached residential dwelling with an average impervious area of 350m^2. The number of ET for non-residential property will be calculated based on the impervious area, where 350m^2 impervious area represents one ET.

Credit for existing use is applied in the calculation of the ET loadings, as the developer charges are levied for additional ET loading only. For example, the first lot in a residential subdivision is exempt from developer charges where the lot already contributes runoff from an existing dwelling and associated impervious areas to the stormwater system. Properties without existing impervious area do not receive credit for stormwater charges.

9.1 Summary

The developer charges for the area covered by this DSP document area are as follows:

Table 9-1. Summary of Proposed Stormwater Developer Charges

DSP Area	Capital Charge ($ per ET)	Reduction Amount ($ per ET)	Developer Charge ($ per ET)
Goulburn	2,515	0	2,515
Marulan	1,325	0	1,325
Marys Mount	1,325	0	1,325

These amounts have been calculated on the basis of the information presented in Sections 9.2 to **Error! Reference source not found.**

9.2 Service Areas

The service areas for stormwater and the basis of determining the service areas are as follows:

Service Area	Basis of determining the service area
Goulburn	Separate town or village
Marulan	Separate town or village
Marys Mount	New development area over 500 lots

9.3 Equivalent Tenements (ETs)

The 2016 guidelines do not include a methodology for the calculation of stormwater ETs. In order to determine the number of stormwater ET for 1996, current year and 2046 for input into the capital charge calculations, it was assumed that the number of stormwater ETs for each service area was equal to the number of water supply ETs. ET projections for each service area are shown in Table 9-2. The ETs in January 1996 are also provided.

Table 9-2. ET Projections for Stormwater

Year	Number of ETs		
	Goulburn	Marulan	Marys Mount
January 1996	13,599	478	0
2015/16	16,045	590	749
2016/17	16,122	595	823
2017/18	16,200	601	897
2018/19	16,280	606	970
2019/20	16,362	612	1,044
2020/21	16,444	617	1,118
2021/22	16,511	622	1,192
2022/23	16,578	627	1,266
2023/24	16,647	632	1,340
2024/25	16,717	637	1,414
2025/26	16,788	642	1,488
2026/27	16,842	647	1,562
2027/28	16,897	651	1,636
2028/29	16,953	656	1,710
2029/30	17,009	660	1,784
2030/31	17,067	665	1,858
2031/32	17,126	670	1,932
2032/33	17,185	674	2,006
2033/34	17,300	679	2,025
2034/35	17,436	684	2,025
2035/36	17,572	689	2,025
2036/37	17,709	693	2,025
2037/38	17,847	698	2,025
2038/39	17,986	703	2,025
2039/40	18,126	708	2,025
2040/41	18,268	713	2,025
2041/42	18,410	718	2,025
2042/43	18,553	723	2,025
2043/44	18,697	728	2,025
2044/45	18,842	733	2,025
30th year 2045/46	18,988	738	2,025

ET calculations details for each service area are shown in Section 15.

9.4 Capital Charge

The capital charge for each service area covered by this DSP document has been calculated using the NPV spreadsheet method. Calculation details for PV of ETs and PV of capital costs for each service area are shown in Section 18. The summary of the capital charge calculations is shown in Table 9-3.

Table 9-3. Capital charge calculation for Stormwater

Service Area	PV of New ETs for pre-1996 assets @ 3%	PV of New ETs for post-1996 assets @ 5%	PV of capital cost for pre-1996 assets @ 3% ($)	PV of capital cost for post-1996 assets @ 5% ($)	Capital charge for pre-1996 assets ($)	Capital charge for post-1996 assets ($)	Capital charge per ET ($)
Goulburn	2,948	2,102	1,807,865	3,997,767	613	1,902	2,515
Marulan	136	97	0	157,674	0	1,619	1,619
Marys Mount	1,050	671	21,472	857,302	20	1,277	1,298

9.5 DSP Area

Table 9-4 shows the agglomeration of service areas into DSP areas of within 30% of the highest capital charge. The Marulan and Marys Mount service areas are agglomerated into a single DSP area.

Table 9-4. Agglomeration of Service Areas

Service Area	Capital Charge (2016/17$ per ET)	Percentage of Highest Capital Charge DSP Area A	Percentage of Highest Capital Charge DSP Area B
Goulburn	2,515	100%	
Marulan	1,619	64%	100%
Marys Mount	1,298	52%	80%

Weighted average capital charge for each DSP area is calculated by weighting by the PV of new ETs in each service areas. The calculation is shown in Table 9-5.

Table 9-5. Weighted average capital charge

DSP area	Service area	Capital charge for each service area ($ per ET)	New ETs in service area	PV of new ETs in service area	% of PV of new ETs in DSP area	Weighted component of the capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)
A	Goulburn	2,515	2,943	1,410	100.0%	2,515	2,515
B	Marulan	1,619	148	81	8.4%	135	1,325
	Marys Mount	1,298	1,276	884	91.6%	1,190	

Utility-wide weighted average capital charge: $ 2,032 per ET

9.6 Reduction Amount and Cross-Subsidy

Council does not levy specific charges for stormwater services; therefore a reduction amount has not been calculated for stormwater.

Council has elected to adopt the calculated developer charges for stormwater and not apply a cross-subsidy.

10 Reviewing/ Updating of Developer Charges

Developer charges will be adjusted on 1 July each year on the basis of movements in the CPI for Sydney, in the preceding 12 months to December, excluding the impact of GST.

Developer charges will be reviewed by Council after a period of 4 to 8 years.

11 Background Document

A background document containing all the critical data including calculation models behind each DSP is available from Council on request. The contact details are below:

Goulburn Mulwaree Council Utilities Section
Ph: (02) 4823 4444

The background documents lists and references all the other studies that have been used as a source, including GMC's Strategic Business Plan, Financial Plan and the latest TBL Performance Report.

12 Other DSPs and related contribution plans

This DSP supersedes all other DSPs and Development Contribution Plans previously prepared by Council.

The related Section 94 contributions plans prepared by Council are:

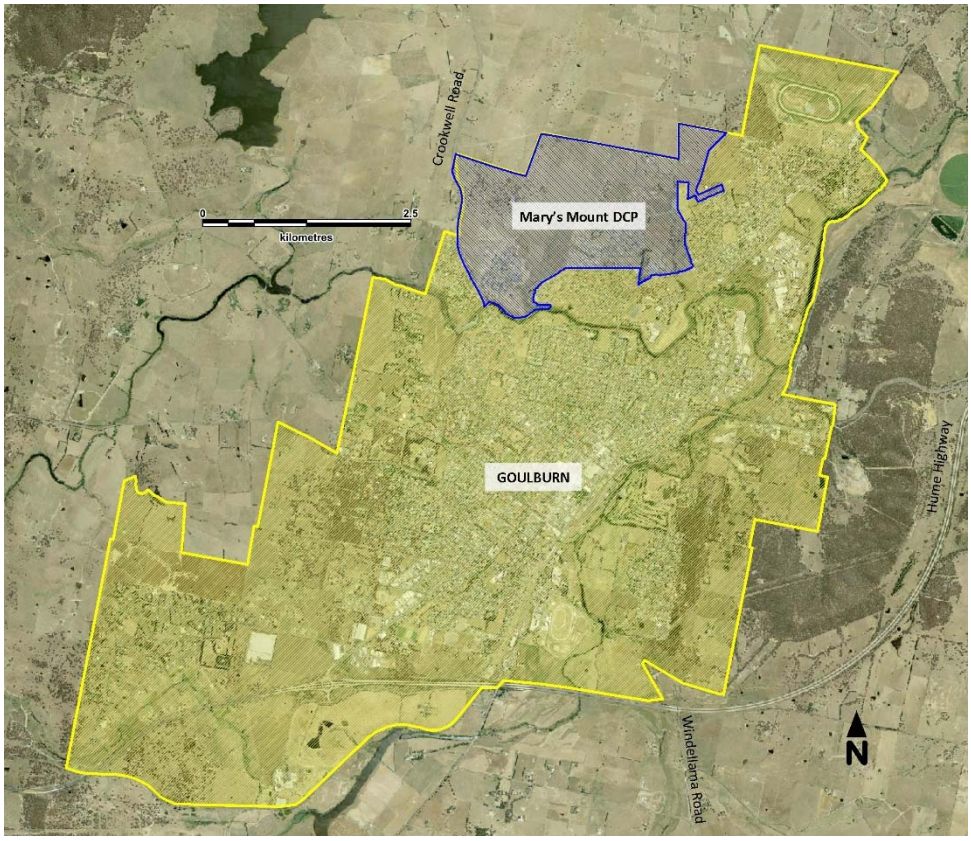
- Goulburn Mulwaree Council Section 94A Levy Development Contributions Plan 2009 (Parsons Brinckerhoff, 2009)
- Goulburn Mulwaree Council Section 94A Levy Development Contributions Plan 2009 Amendment No. 2 (2012)

13 Glossary

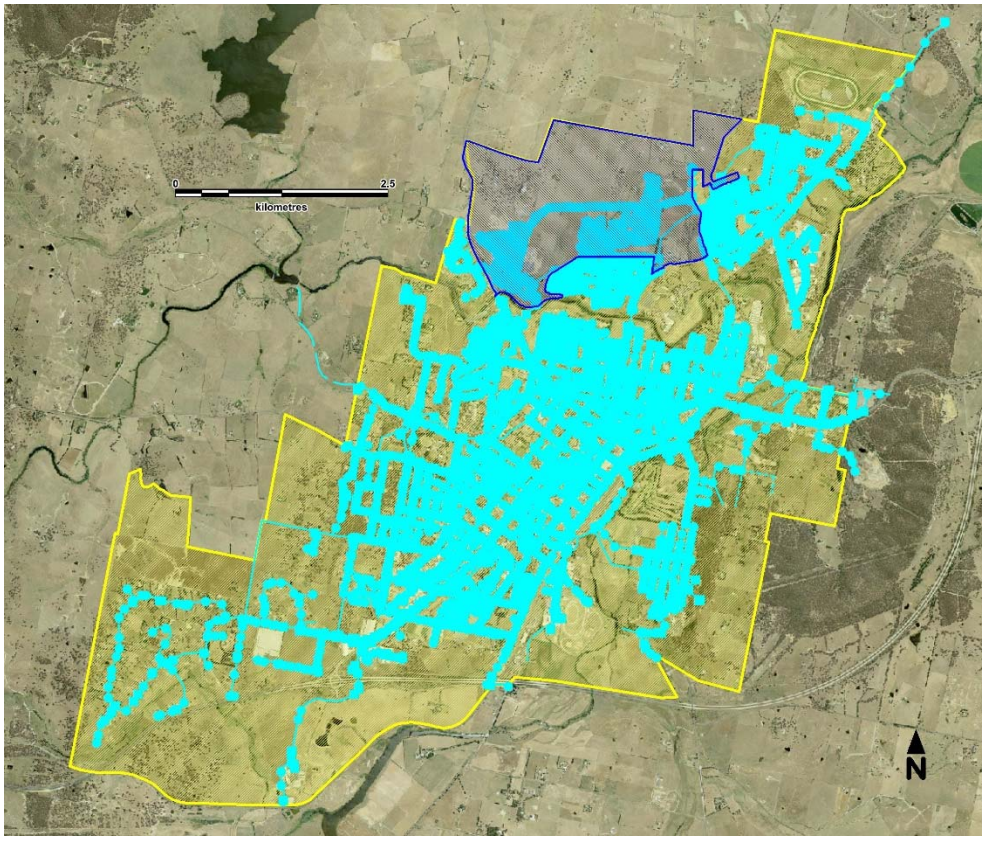
Annual Bill	LWU's annual water supply or sewerage bill for an annual demand of 1 ET.
Asset	An asset (or part of an asset) including land and headworks assets that directly provides, or will provide, the developer services to developments within the DSP area for which the Developer Charge is payable
ADWF	Average dry weather flow. One of the design parameters for flow in sewers.
BOD	Biochemical oxygen demand. Used as a measure of the 'strength' of sewage.
Capital Cost	The Present Value (MEERA basis) of all expenditure on assets used to service the development.
Capital Charge	Capital cost of assets per ET adjusted for commercial return on investment (ROI).
CP	Section 94 Contributions Plan.
CPI	Consumer price index.
Developer Charge (DC)	Charge levied on developers to recover part of the capital cost incurred in providing infrastructure to new development.
Development Area	See DSP area.
Discount Rate	The rate used to calculate the present value of money arising in the future.
DSP	Development Servicing Plan
DSP area	That part of a water utility's area covered by a particular Development Servicing Plan. Also referred to as Development Area.
EP	Equivalent Persons (or equivalent population). Used as a design parameter for loadings of sewage treatment works.
ET	Equivalent tenement. The annual demand a detached residential dwelling will place on the infrastructure in terms of the water consumption or sewage discharge.
GMC	Goulburn Mulwaree Council
GST	Goods and services tax.
Headworks	Significant assets at the top end of the water systems or the bottom end of the wastewater and stormwater system. For example water headworks may comprise a system of storage reservoirs, water treatment works and major supply conduits.
IPART	The NSW Independent Pricing and Regulatory Tribunal.
kL	Kilolitre (1,000 litres).
LGSA	Local Government and Shires Associations.
LWU	Local water utility (NSW). Excludes Sydney Water Corporation, Hunter Water Corporation, Gosford Council, Wyong Council, Essential Water and Fish River Water Supply.
MEERA	Modern Engineering Equivalent Replacement Asset. An asset value calculated on the basis that the asset is constructed at the time of valuation in accordance with modern engineering practice and the most economically viable technologies, which provides similar utility functions to the existing asset in service.
ML	Megalitre (1,000,000 litres, or 1,000 kilolitres).
Net income	Annual bill minus OMA cost per ET.
NOW	NSW Office of Water

NPV	Net present value means the difference between the Present Value of a revenue stream and the Present Value of a cost stream.
OMA	Operation, maintenance and administration (cost).
Peak Day Demand	The maximum demand in any one day of the year. Used to size water treatments works, service reservoirs, trunk mains and pumping stations in the distribution system.
Operating cost	In relation to a DSP is the operation, maintenance and administration cost (excluding depreciation and interest) of a LWU in providing Customer services to a DSP area.
Periodic bills	The periodic bills (generally quarterly) levied by a LWU in accordance with their annual operational plan.
Post 1996 Asset	An asset that was commissioned by a LWU on or after 1 January 1996 or that is yet to be commissioned.
Pre 1996 Asset	An asset that was commissioned by a LWU before 1 January 1996.
PV	Present value. The current value of future money or ETs.
PWWF	Peak wet weather flow. One of the design parameters of flow in sewers.
Real Terms	The value of a variable adjusted for inflation by a CPI adjustment
Reduction Amount	The amount by which the capital charge is reduced to arrive at the developer charge. This amount reflects the capital contribution that will be paid by the occupier of a development as part of future annual bills.
ROI	Return on investment. Represents the income that is, or could be, generated by investing money.
Service Area	An area serviced by a separate water supply system, an area served by a separate STW, a separate small town or village, or a new development of over 500 ETs.
SS	Suspended solids, or the concentration of particles in sewage. Used as a measure of the 'strength' of sewage.
STW	Sewage treatment works
TRB	Typical residential bill, which is the principal indicator of the overall cost of a water supply or sewerage system and is the bill paid by a residential customer using the utility's average annual residential water supplied per connected property.
WTW	Water treatment works.

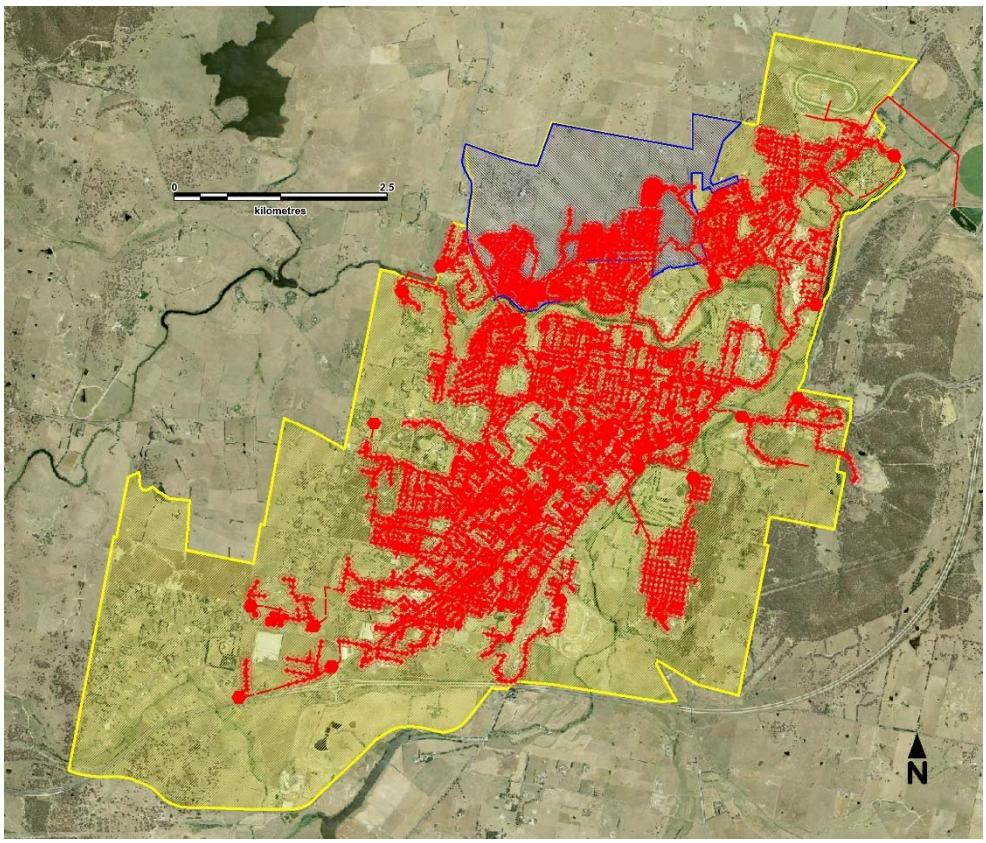
14 Plans



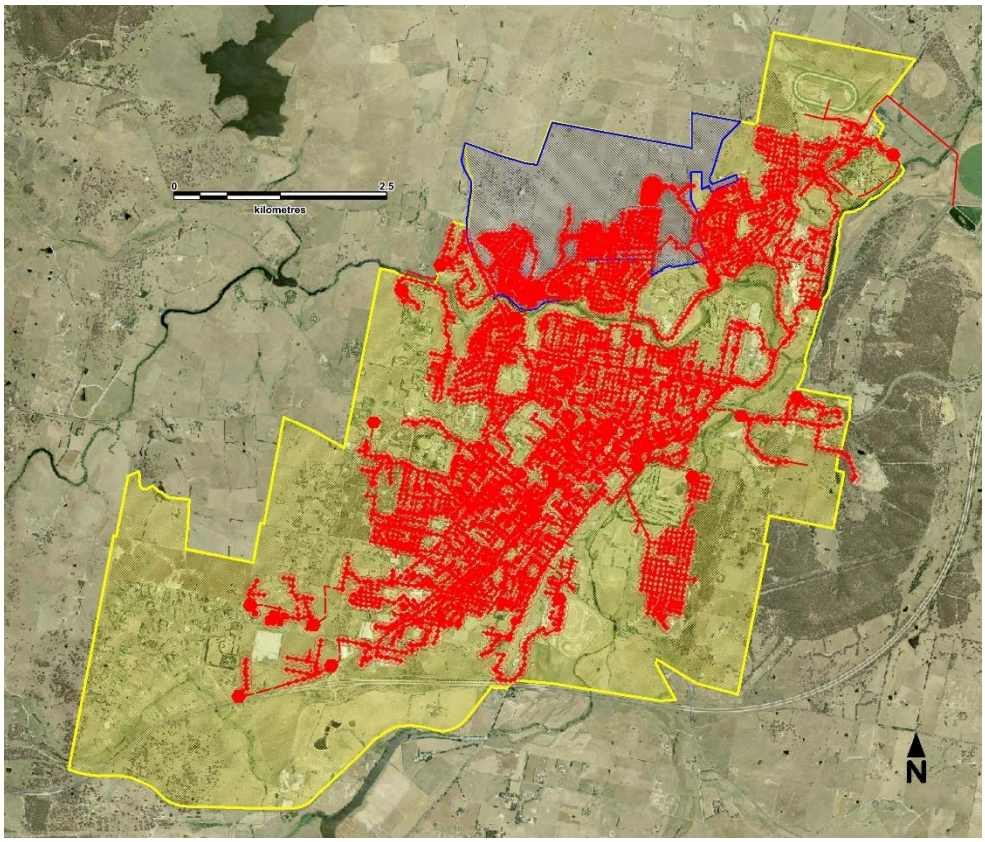
Plan 14-1 Goulburn DSP Area



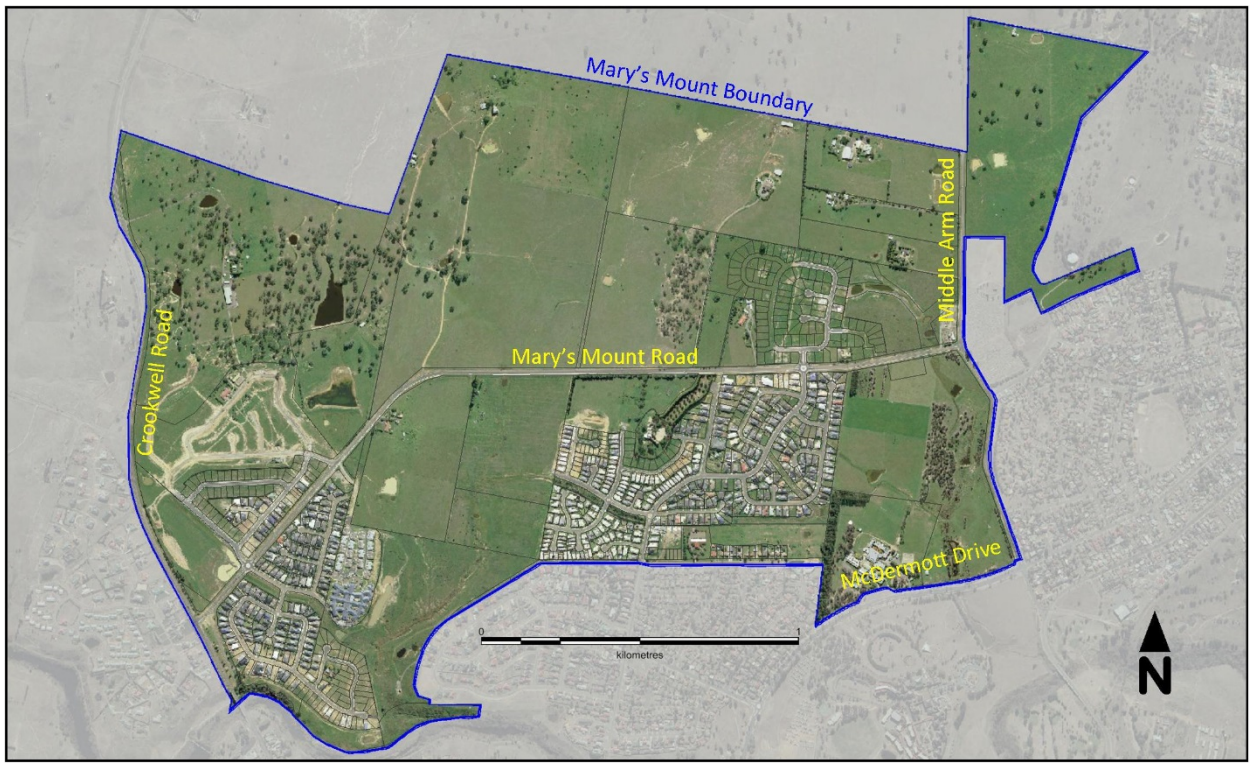
Plan 14-2 Goulburn DSP Area – Existing Water Supply Infrastructure



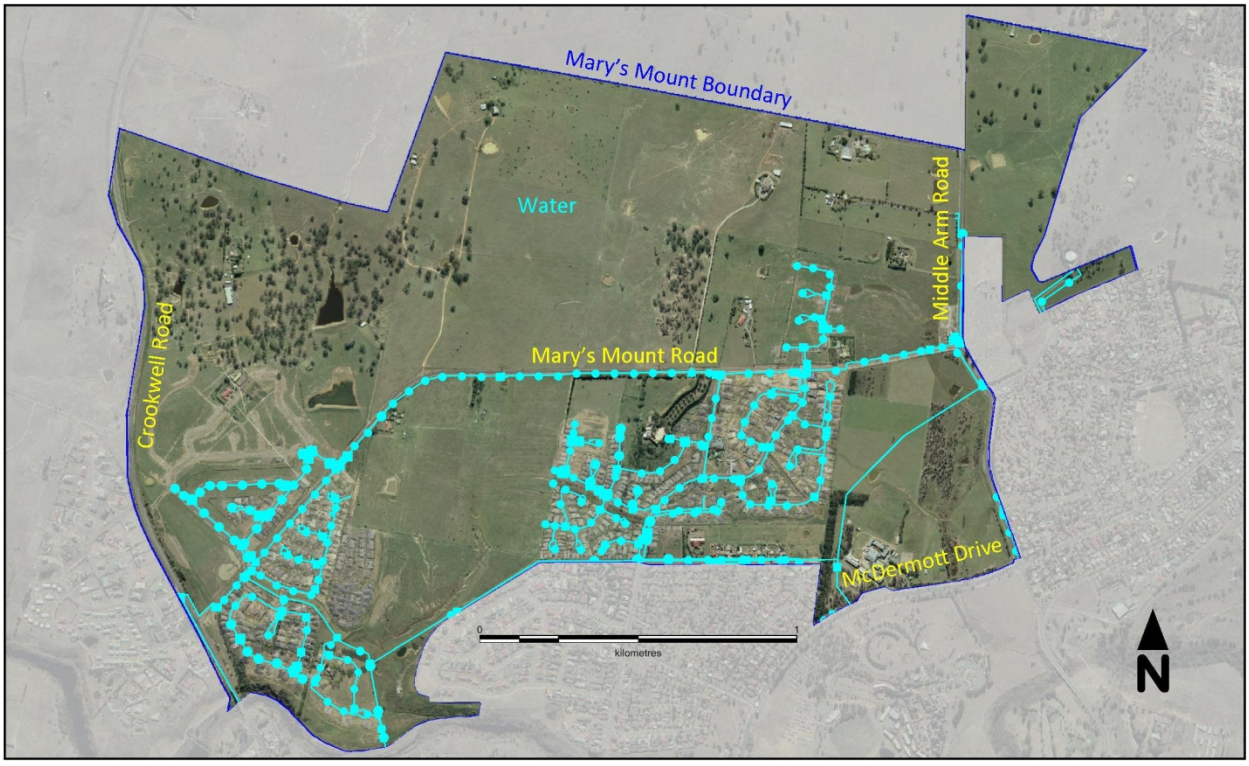
Plan 14-3 Goulburn DSP Area – Existing Sewerage Infrastructure



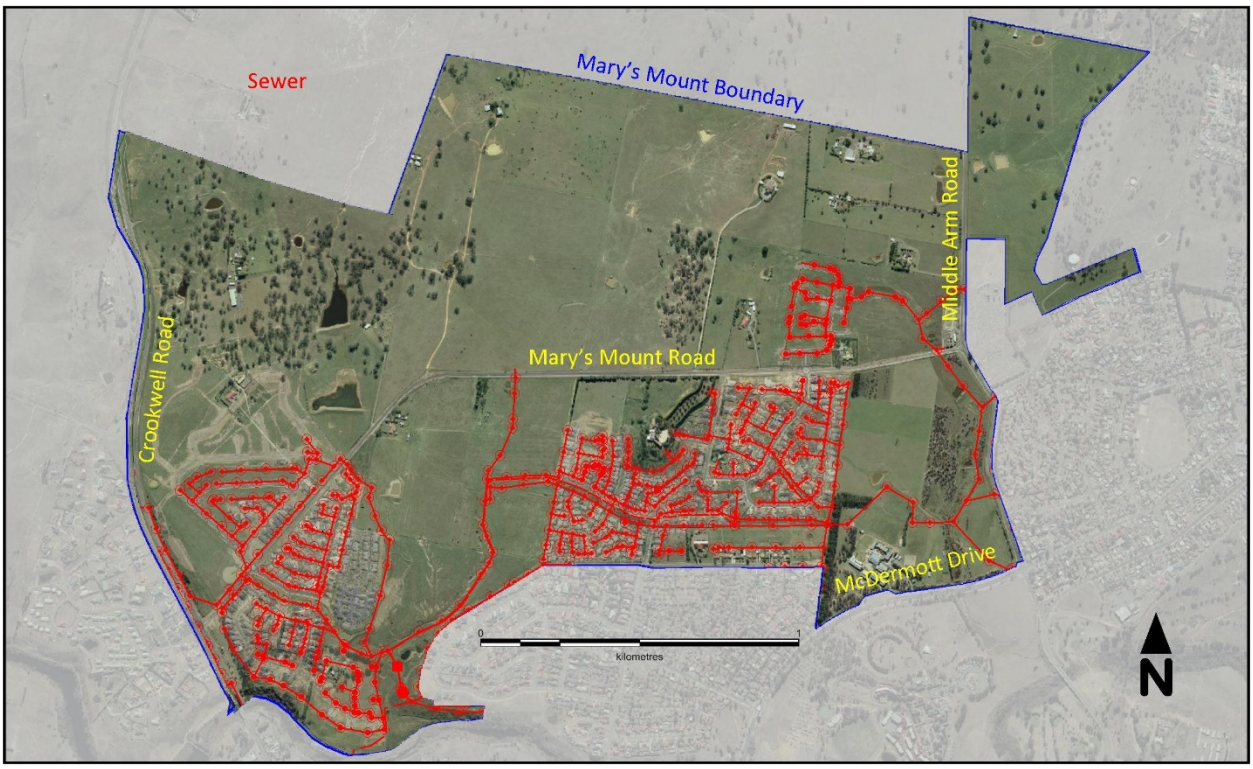
Plan 14-4 Goulburn DSP Area – Existing Stormwater Infrastructure



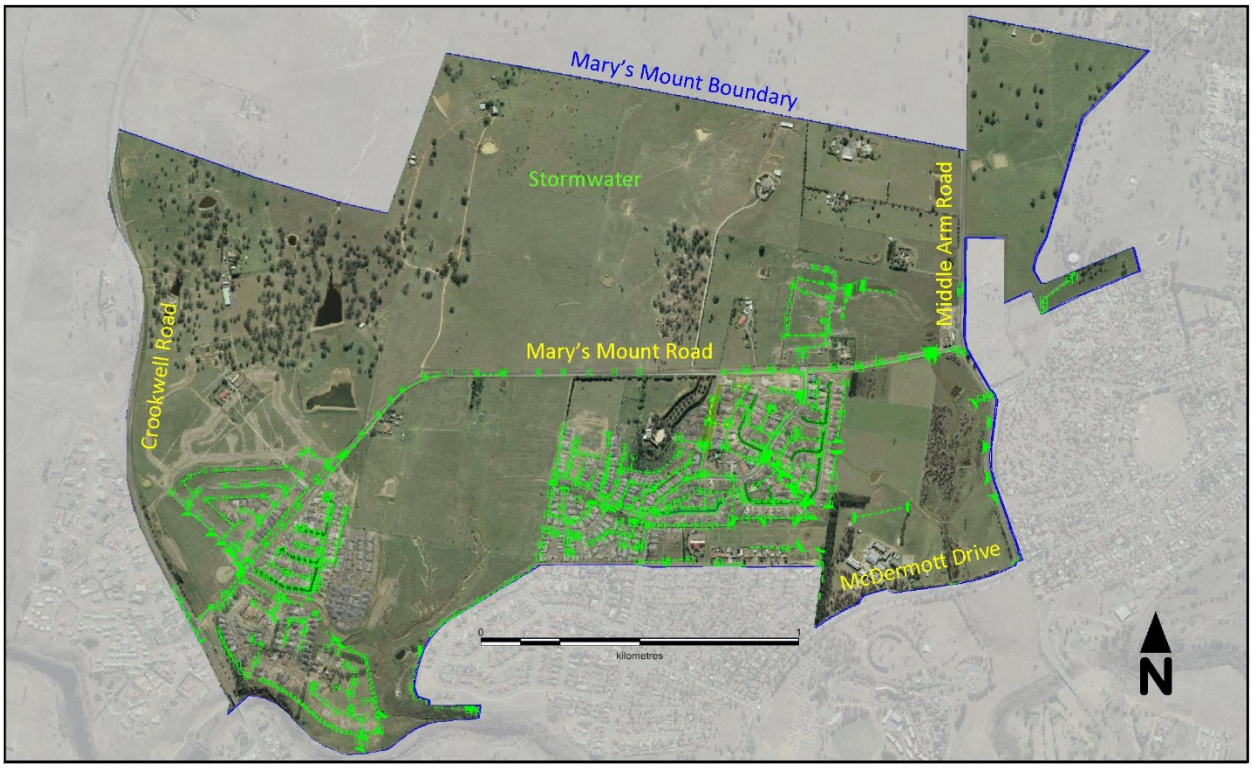
Plan 14-5 Marys Mount DSP Area



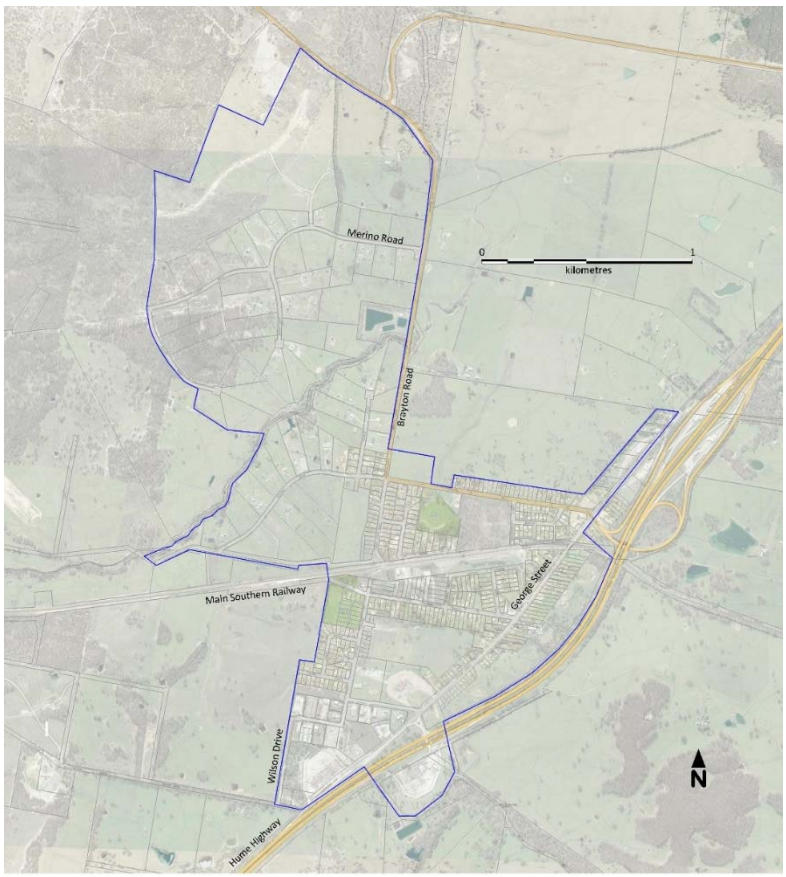
Plan 14-6 Marys Mount DSP Area – Existing Water Supply Infrastructure



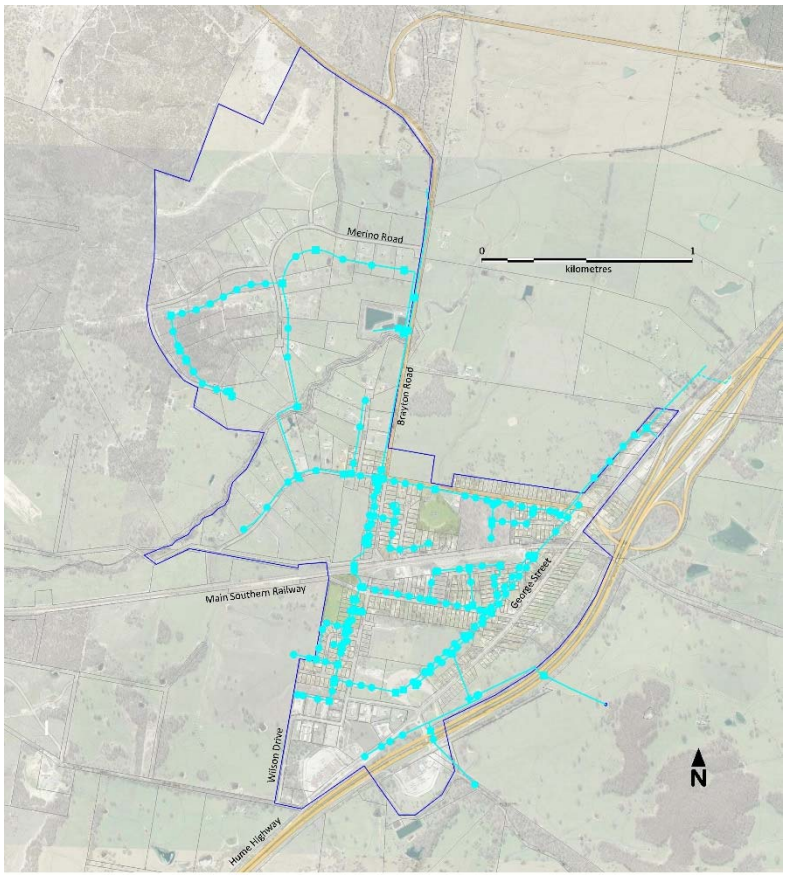
Plan 14-7 Marys Mount DSP Area – Existing Sewerage Infrastructure



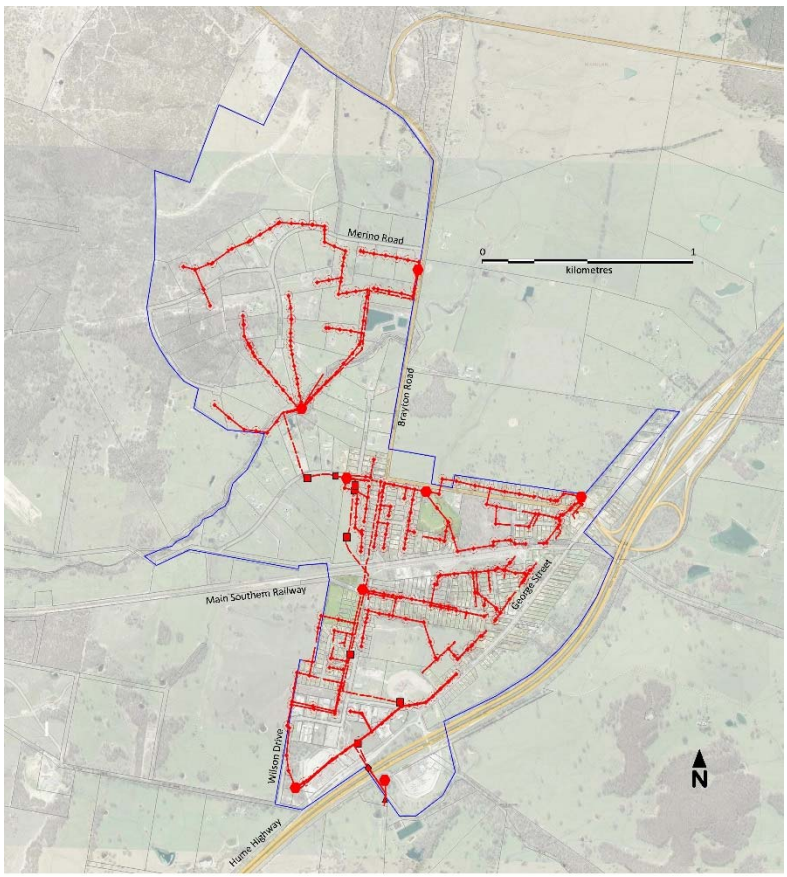
Plan 14-8 Marys Mount DSP Area – Existing Stormwater Infrastructure



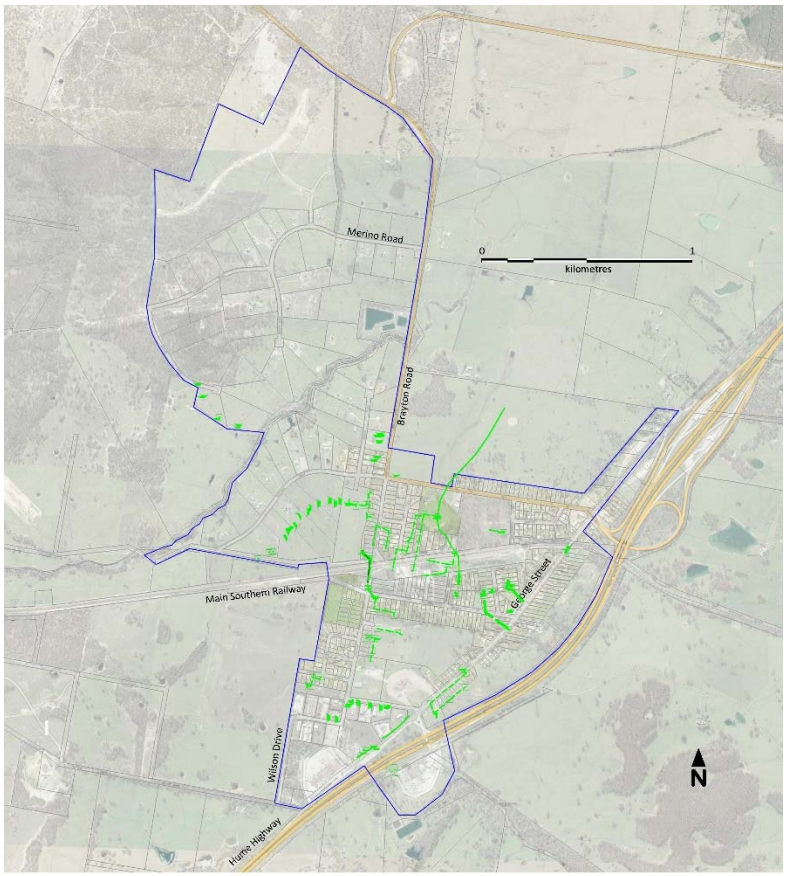
Plan 14-9 Marulan DSP Area



Plan 14-10 Marulan DSP Area – Existing Water Supply Infrastructure



Plan 14-11 Marulan DSP Area – Existing Sewerage Infrastructure



Plan 14-12 Marulan DSP Area – Existing Stormwater Infrastructure

15 Calculation of ETs

Equivalent Tenement Take-Up - Water Supply

Service Area — **Goulburn & Marys Mount**

Year of Calculation — **2016**

Assumptions:

Total Water Supplied 2014-2015 (kL)	2,519,000	*Goulburn and Marys Mount Combined*
Average Annual Residential Water Supplied 2014-2015 (kL/ connected property)	152	
Equivalent Tenements (ETs) for 2014-2015	16,627	*Goulburn and Marys Mount Combined*

Year	Growth (% pa)	Equivalent Tenements (ET) *Goulburn & MM*	Equivalent Tenements (ET) *Goulburn*	Equivalent Tenements (ET) *Marys Mount*	Annual ET Take-up (ET) *Goulburn & MM*	Annual ET Take-up (ET) *Marys Mount*	Annual ET Take-up (ET) *Goulburn*
1995/96	*1.05%*	13,599	13,599	0			
1996/97	*1.05%*	13,744	13,744	0	144	0	144
1997/98	*1.05%*	13,890	13,890	0	146	0	146
1998/99	*1.05%*	14,037	14,037	0	147	0	147
1999/00	*1.05%*	14,186	14,186	0	149	0	149
2000/01	*1.05%*	14,337	14,337	0	151	0	151
2001/02	*1.05%*	14,489	14,489	0	152	0	152
2002/03	*1.05%*	14,642	14,642	0	154	0	154
2003/04	*1.05%*	14,798	14,798	0	155	0	155
2004/05	*1.05%*	14,955	14,947	8	157	8	149
2005/06	*0.30%*	15,000	14,959	41	45	33	12
2006/07	*0.40%*	15,060	14,990	70	60	29	31
2007/08	*1.35%*	15,266	15,142	124	206	54	152
2008/09	*1.80%*	15,546	15,361	185	280	61	219
2009/10	*1.55%*	15,791	15,543	248	245	63	182
2010/11	*1.00%*	15,950	15,603	347	160	99	61
2011/12	*1.35%*	16,168	15,758	410	218	63	155
2012/13	*1.63%*	16,436	15,886	550	268	140	128
2013/14	*0.50%*	16,519	15,886	633	83	83	0
2014/15	*0.65%*	16,627	15,908	719	108	86	22
2015/16	1.00%	16,793	16,045	749	166	30	137
2016/17	0.90%	16,944	16,122	823	151	74	77
2017/18	0.90%	17,097	16,200	897	153	74	79
2018/19	0.90%	17,251	16,280	970	154	74	80
2019/20	0.90%	17,406	16,362	1,044	155	74	81
2020/21	0.90%	17,563	16,444	1,118	157	74	83
2021/22	0.80%	17,703	16,511	1,192	141	74	67
2022/23	0.80%	17,845	16,579	1,266	142	74	68
2023/24	0.80%	17,988	16,647	1,340	143	74	69
2024/25	0.80%	18,132	16,717	1,414	144	74	70
2025/26	0.80%	18,277	16,788	1,488	145	74	71
2026/27	0.70%	18,405	16,842	1,562	128	74	54
2027/28	0.70%	18,533	16,897	1,636	129	74	55
2028/29	0.70%	18,663	16,953	1,710	130	74	56
2029/30	0.70%	18,794	17,010	1,784	131	74	57
2030/31	0.70%	18,925	17,067	1,858	132	74	58
2031/32	0.70%	19,058	17,126	1,932	132	74	59
2032/33	0.70%	19,191	17,185	2,006	133	74	59
2033/34	0.70%	19,326	17,301	2,025	134	19	115
2034/35	0.70%	19,461	17,436	2,025	135	0	135
2035/36	0.70%	19,597	17,572	2,025	136	0	136
2036/37	0.70%	19,734	17,709	2,025	137	0	137
2037/38	0.70%	19,872	17,847	2,025	138	0	138
2038/39	0.70%	20,011	17,986	2,025	139	0	139
2039/40	0.70%	20,152	18,127	2,025	140	0	140
2040/41	0.70%	20,293	18,268	2,025	141	0	141
2041/42	0.70%	20,435	18,410	2,025	142	0	142
2042/43	0.70%	20,578	18,553	2,025	143	0	143
2043/44	0.70%	20,722	18,697	2,025	144	0	144
2044/45	0.70%	20,867	18,842	2,025	145	0	145
2045/46	0.70%	21,013	18,988	2,025	146	0	146
TOTAL		**21,013**	**18,988**	**2,025**	**7,413**	**2,025**	**5,388**

Equivalent Tenement Take-Up - Water Supply

Service Area | **Marulan**

Year of Calculation | **2016**

Assumptions:

Total Water Supplied 2014-2015 (kL)	85,000
Average Annual Residential Water Supplied 2014-2015 (kL/ connected property)	146
Equivalent Tenements (ETs) for 2014-2015	584

Year	Growth % pa	Equivalent Tenements (ET)	Annual ET Take-up (ET)
1995/96	*1.05%*	478	
1996/97	*1.05%*	483	5
1997/98	*1.05%*	488	5
1998/99	*1.05%*	493	5
1999/00	*1.05%*	498	5
2000/01	*1.05%*	504	5
2001/02	*1.05%*	509	5
2002/03	*1.05%*	514	5
2003/04	*1.05%*	520	5
2004/05	*1.05%*	525	6
2005/06	*0.30%*	527	2
2006/07	*0.40%*	529	2
2007/08	*1.35%*	536	7
2008/09	*1.80%*	546	10
2009/10	*1.55%*	555	9
2010/11	*1.00%*	560	6
2011/12	*1.35%*	568	8
2012/13	*1.63%*	577	9
2013/14	*0.50%*	580	3
2014/15	*0.65%*	584	4
2015/16	1.00%	590	6
2016/17	0.90%	595	5
2017/18	0.90%	601	5
2018/19	0.90%	606	5
2019/20	0.90%	612	5
2020/21	0.90%	617	6
2021/22	0.80%	622	5
2022/23	0.80%	627	5
2023/24	0.80%	632	5
2024/25	0.80%	637	5
2025/26	0.80%	642	5
2026/27	0.70%	647	4
2027/28	0.70%	651	5
2028/29	0.70%	656	5
2029/30	0.70%	660	5
2030/31	0.70%	665	5
2031/32	0.70%	670	5
2032/33	0.70%	674	5
2033/34	0.70%	679	5
2034/35	0.70%	684	5
2035/36	0.70%	689	5
2036/37	0.70%	693	5
2037/38	0.70%	698	5
2038/39	0.70%	703	5
2039/40	0.70%	708	5
2040/41	0.70%	713	5
2041/42	0.70%	718	5
2042/43	0.70%	723	5
2043/44	0.70%	728	5
2044/45	0.70%	733	5
2045/46	0.70%	738	5
TOTAL		**738**	**260**

Equivalent Tenement Take-Up - Sewerage

Service Area — **Goulburn and Marys Mount**

Year of Calculation — **2016**

Assumptions:

Measured Average Dry Weather Flow 2014/15 (kL/d)	5,530	*Goulburn and Marys Mount Combined*
Occupancy Ratio	2.4	
Equivalent Tenements (ETs) for 2014-2015	11,520	*Goulburn and Marys Mount Combined*

Year	Growth Rate (% pa)	Equivalent Tenements (ET)	Equivalent Tenements (ET)	Equivalent Tenements (ET)	Annual ET Take-up (ET)	Annual ET Take-up (ET)	Annual ET Take-up (ET)
		Goulburn & MM	*Goulburn*	*Marys Mount*	*Goulburn & MM*	*Marys Mount*	*Goulburn*
1995/96	*1.05%*	9,422	9,422	0			
1996/97	*1.05%*	9,522	9,522	0	100	0	100
1997/98	*1.05%*	9,623	9,623	0	101	0	101
1998/99	*1.05%*	9,726	9,726	0	102	0	102
1999/00	*1.05%*	9,829	9,829	0	103	0	103
2000/01	*1.05%*	9,933	9,933	0	104	0	104
2001/02	*1.05%*	10,038	10,038	0	105	0	105
2002/03	*1.05%*	10,145	10,145	0	107	0	107
2003/04	*1.05%*	10,253	10,253	0	108	0	108
2004/05	*1.05%*	10,361	10,353	8	109	8	101
2005/06	*0.30%*	10,393	10,354	39	31	31	0
2006/07	*0.40%*	10,434	10,364	70	42	31	11
2007/08	*1.35%*	10,577	10,453	124	143	54	89
2008/09	*1.80%*	10,771	10,586	185	194	61	133
2009/10	*1.55%*	10,941	10,693	248	170	63	107
2010/11	*1.00%*	11,051	10,704	347	111	99	12
2011/12	*1.35%*	11,202	10,792	410	151	63	88
2012/13	*1.63%*	11,388	10,838	550	186	140	46
2013/14	*0.50%*	11,445	10,838	607	57	57	0
2014/15	*0.65%*	11,520	10,838	682	75	75	0
2015/16	1.00%	11,635	10,886	749	115	67	48
2016/17	0.90%	11,740	10,917	823	105	74	31
2017/18	0.90%	11,846	10,949	897	106	74	32
2018/19	0.90%	11,952	10,981	971	107	74	33
2019/20	0.90%	12,060	11,015	1,045	108	74	34
2020/21	0.90%	12,168	11,049	1,119	109	74	35
2021/22	0.80%	12,266	11,073	1,193	97	74	23
2022/23	0.80%	12,364	11,097	1,267	98	74	24
2023/24	0.80%	12,463	11,122	1,341	99	74	25
2024/25	0.80%	12,562	11,148	1,415	100	74	26
2025/26	0.80%	12,663	11,174	1,489	100	74	27
2026/27	0.70%	12,752	11,189	1,563	89	74	15
2027/28	0.70%	12,841	11,204	1,637	89	74	15
2028/29	0.70%	12,931	11,220	1,711	90	74	16
2029/30	0.70%	13,021	11,237	1,785	91	74	17
2030/31	0.70%	13,112	11,254	1,859	91	74	17
2031/32	0.70%	13,204	11,272	1,933	92	74	18
2032/33	0.70%	13,297	11,290	2,007	92	74	18
2033/34	0.70%	13,390	11,364	2,025	93	19	74
2034/35	0.70%	13,483	11,458	2,025	94	0	94
2035/36	0.70%	13,578	11,552	2,025	94	0	94
2036/37	0.70%	13,673	11,647	2,025	95	0	95
2037/38	0.70%	13,768	11,743	2,025	96	0	96
2038/39	0.70%	13,865	11,839	2,025	96	0	96
2039/40	0.70%	13,962	11,936	2,025	97	0	97
2040/41	0.70%	14,060	12,034	2,025	98	0	98
2041/42	0.70%	14,158	12,133	2,025	98	0	98
2042/43	0.70%	14,257	12,232	2,025	99	0	99
2043/44	0.70%	14,357	12,332	2,025	100	0	100
2044/45	0.70%	14,457	12,432	2,025	100	0	100
2045/46	0.70%	14,559	12,533	2,025	101	0	101
TOTAL		**14,559**	**12,533**	**2,025**	**5,136**	**2,025**	**3,111**

Equivalent Tenement Take-Up - Sewerage

Service Area **Marulan**

Year of Calculation **2016**

Assumptions:

Measured Average Dry Weather Flow 2014/15 (kL/d)	N/A	*Data not available*
Occupancy Ratio	2.4	
Equivalent Tenements (ETs) for 2014-2015	584	*Assumed equal to existing water supply ETs*

Year	Growth Rate (% pa)	Equivalent Tenements (ET)	Annual ET Take-up (ET)
1995/96	*1.05%*	478	
1996/97	*1.05%*	483	5
1997/98	*1.05%*	488	5
1998/99	*1.05%*	493	5
1999/00	*1.05%*	498	5
2000/01	*1.05%*	504	5
2001/02	*1.05%*	509	5
2002/03	*1.05%*	514	5
2003/04	*1.05%*	520	5
2004/05	*1.05%*	525	6
2005/06	*0.30%*	527	2
2006/07	*0.40%*	529	2
2007/08	*1.35%*	536	7
2008/09	*1.80%*	546	10
2009/10	*1.55%*	555	9
2010/11	*1.00%*	560	6
2011/12	*1.35%*	568	8
2012/13	*1.63%*	577	9
2013/14	*0.50%*	580	3
2014/15	*0.65%*	584	4
2015/16	1.00%	590	6
2016/17	0.90%	595	5
2017/18	0.90%	601	5
2018/19	0.90%	606	5
2019/20	0.90%	611	5
2020/21	0.90%	617	6
2021/22	0.80%	622	5
2022/23	0.80%	627	5
2023/24	0.80%	632	5
2024/25	0.80%	637	5
2025/26	0.80%	642	5
2026/27	0.70%	646	4
2027/28	0.70%	651	5
2028/29	0.70%	656	5
2029/30	0.70%	660	5
2030/31	0.70%	665	5
2031/32	0.70%	669	5
2032/33	0.70%	674	5
2033/34	0.70%	679	5
2034/35	0.70%	684	5
2035/36	0.70%	688	5
2036/37	0.70%	693	5
2037/38	0.70%	698	5
2038/39	0.70%	703	5
2039/40	0.70%	708	5
2040/41	0.70%	713	5
2041/42	0.70%	718	5
2042/43	0.70%	723	5
2043/44	0.70%	728	5
2044/45	0.70%	733	5
2045/46	0.70%	738	5
TOTAL		**738**	**260**

Equivalent Tenement Take-Up - Stormwater

Service Area | **Goulburn and Marys Mount**

Year of Calculation | **2016**

Assumptions:

Equivalent Tenements (ETs) for 2014-2015 | 16,627 | *Goulburn and Marys Mount Combined, assume equal to water supply ETs*

Year	Growth Rate (% pa)	Equivalent Tenements (ET)	Equivalent Tenements (ET)	Equivalent Tenements (ET)	Annual ET Take-up (ET)	Annual ET Take-up (ET)	Annual ET Take-up (ET)
		Goulburn & MM	*Goulburn*	*Marys Mount*	*Goulburn & MM*	*Marys Mount*	*Goulburn*
1995/96	*1.05%*	13,599	13,599	0			
1996/97	*1.05%*	13,744	13,744	0	144	0	144
1997/98	*1.05%*	13,890	13,890	0	146	0	146
1998/99	*1.05%*	14,037	14,037	0	147	0	147
1999/00	*1.05%*	14,186	14,186	0	149	0	149
2000/01	*1.05%*	14,336	14,336	0	151	0	151
2001/02	*1.05%*	14,489	14,489	0	152	0	152
2002/03	*1.05%*	14,642	14,642	0	154	0	154
2003/04	*1.05%*	14,798	14,798	0	155	0	155
2004/05	*1.05%*	14,955	14,947	8	157	8	149
2005/06	*0.30%*	15,000	14,959	41	45	33	12
2006/07	*0.40%*	15,060	14,990	70	60	29	31
2007/08	*1.35%*	15,266	15,142	124	206	54	152
2008/09	*1.80%*	15,546	15,361	185	280	61	219
2009/10	*1.55%*	15,791	15,543	248	245	63	182
2010/11	*1.00%*	15,950	15,603	347	160	99	61
2011/12	*1.35%*	16,168	15,758	410	218	63	155
2012/13	*1.63%*	16,436	15,886	550	268	140	128
2013/14	*0.50%*	16,519	15,886	633	83	83	0
2014/15	*0.65%*	16,627	15,908	719	108	86	22
2015/16	1.00%	16,793	16,045	749	166	30	137
2016/17	0.90%	16,944	16,122	823	151	74	77
2017/18	0.90%	17,097	16,200	897	152	74	79
2018/19	0.90%	17,251	16,280	970	154	74	80
2019/20	0.90%	17,406	16,362	1,044	155	74	81
2020/21	0.90%	17,563	16,444	1,118	157	74	83
2021/22	0.80%	17,703	16,511	1,192	141	74	67
2022/23	0.80%	17,845	16,578	1,266	142	74	68
2023/24	0.80%	17,988	16,647	1,340	143	74	69
2024/25	0.80%	18,131	16,717	1,414	144	74	70
2025/26	0.80%	18,277	16,788	1,488	145	74	71
2026/27	0.70%	18,404	16,842	1,562	128	74	54
2027/28	0.70%	18,533	16,897	1,636	129	74	55
2028/29	0.70%	18,663	16,953	1,710	130	74	56
2029/30	0.70%	18,794	17,009	1,784	131	74	57
2030/31	0.70%	18,925	17,067	1,858	132	74	58
2031/32	0.70%	19,058	17,126	1,932	132	74	59
2032/33	0.70%	19,191	17,185	2,006	133	74	59
2033/34	0.70%	19,325	17,300	2,025	134	19	115
2034/35	0.70%	19,461	17,436	2,025	135	0	135
2035/36	0.70%	19,597	17,572	2,025	136	0	136
2036/37	0.70%	19,734	17,709	2,025	137	0	137
2037/38	0.70%	19,872	17,847	2,025	138	0	138
2038/39	0.70%	20,011	17,986	2,025	139	0	139
2039/40	0.70%	20,151	18,126	2,025	140	0	140
2040/41	0.70%	20,293	18,268	2,025	141	0	141
2041/42	0.70%	20,435	18,410	2,025	142	0	142
2042/43	0.70%	20,578	18,553	2,025	143	0	143
2043/44	0.70%	20,722	18,697	2,025	144	0	144
2044/45	0.70%	20,867	18,842	2,025	145	0	145
2045/46	0.70%	21,013	18,988	2,025	146	0	146
TOTAL		**21,013**	**18,988**	**2,025**	**7,413**	**2,025**	**5,388**

Equivalent Tenement Take-Up - Stormwater

Service Area Marulan

Year of Calculation 2016

Assumptions:

Equivalent Tenements (ETs) for 2014-2015 584 *Assumed equal to water supply ETs*

Year	Growth Rate (% pa)	Equivalent Tenements (ET)	Annual ET Take-up (ET)
1995/96	*1.05%*	478	
1996/97	*1.05%*	483	5
1997/98	*1.05%*	488	5
1998/99	*1.05%*	493	5
1999/00	*1.05%*	498	5
2000/01	*1.05%*	504	5
2001/02	*1.05%*	509	5
2002/03	*1.05%*	514	5
2003/04	*1.05%*	520	5
2004/05	*1.05%*	525	6
2005/06	*0.30%*	527	2
2006/07	*0.40%*	529	2
2007/08	*1.35%*	536	7
2008/09	*1.80%*	546	10
2009/10	*1.55%*	555	9
2010/11	*1.00%*	560	6
2011/12	*1.35%*	568	8
2012/13	*1.63%*	577	9
2013/14	*0.50%*	580	3
2014/15	*0.65%*	584	4
2015/16	1.00%	590	6
2016/17	0.90%	595	5
2017/18	0.90%	601	5
2018/19	0.90%	606	5
2019/20	0.90%	611	5
2020/21	0.90%	617	6
2021/22	0.80%	622	5
2022/23	0.80%	627	5
2023/24	0.80%	632	5
2024/25	0.80%	637	5
2025/26	0.80%	642	5
2026/27	0.70%	646	4
2027/28	0.70%	651	5
2028/29	0.70%	656	5
2029/30	0.70%	660	5
2030/31	0.70%	665	5
2031/32	0.70%	669	5
2032/33	0.70%	674	5
2033/34	0.70%	679	5
2034/35	0.70%	684	5
2035/36	0.70%	688	5
2036/37	0.70%	693	5
2037/38	0.70%	698	5
2038/39	0.70%	703	5
2039/40	0.70%	708	5
2040/41	0.70%	713	5
2041/42	0.70%	718	5
2042/43	0.70%	723	5
2043/44	0.70%	728	5
2044/45	0.70%	733	5
2045/46	0.70%	738	5
TOTAL		**738**	**260**

16 Existing Capital Costs

Existing Capital Cost - Water Supply

Service Area | Goulburn

Year of Calculation | 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	BUI0000015	Pump Station	Addison St Building	1988				$98,395	100.0%	35.3%	$34,714	Pump Station, post 1986
Goulburn	IWP0000017	Pump Station	Addison St Pump 1	1988				$58,823	100.0%	35.3%	$20,753	Pump Station, post 1986
Goulburn	IWP0000018	Pump Station	Addison St Pump 2	1988				$58,823	100.0%	35.3%	$20,753	Pump Station, post 1986
Goulburn, Marys Mount	IHG0000001	Treatment	Block and Gantry	1988				$10,695	61.5%	35.3%	$2,321	Treatment, post 1986
Goulburn, Marys Mount	IDP0000015	Treatment	Chlorinator	1988				$16,043	61.5%	35.3%	$3,481	Treatment, post 1986
Goulburn	IPW0000022	Pump Station	Local Pipework and fittings	1988				$69,518	100.0%	35.3%	$24,526	Pump Station, post 1986
Goulburn	IHH0000003	Reservoir	Ridge St 1 Rails & Ladders	1988				$128,341	100.0%	35.3%	$45,279	Reservoir, post 1986
Goulburn	RES0000003	Reservoir	Ridge St 1 Reservoir	1988				$534,753	100.0%	35.3%	$188,661	Reservoir, post 1986
Goulburn	RES0000023	Reservoir	Ridge St 1 Reservoir Membrane Coating	1988				$171,121	100.0%	35.3%	$60,372	Reservoir, post 1986
Goulburn	BSR0000003	Reservoir	Ridge St 1 Roof	1988				$235,291	100.0%	35.3%	$83,011	Reservoir, post 1986
Goulburn	SUB0000003	Reservoir	Ridge St 1 Siteworks	1988				$37,433	100.0%	35.3%	$13,206	Reservoir, post 1986
Goulburn	ISW0000008	Pump Station	Switchboard	1988				$117,646	100.0%	35.3%	$41,506	Pump Station, post 1986
Goulburn, Marys Mount	ILC0000003	Treatment	Ultrasonic Meter	1988				$19,251	61.5%	35.3%	$4,177	Treatment, post 1986
Goulburn	IVC0000005	Pump Station	Valve Pit	1988				$48,128	100.0%	35.3%	$16,980	Pump Station, post 1986
Goulburn		Trunkmain	Water Trunkmain	1989	5.5	100		$938	100.0%	35.3%	$331	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1989	28.25	225		$10,672	100.0%	35.3%	$3,765	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1989	529.2	225		$194,040	100.0%	35.3%	$68,458	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	22.6	200		$7,654	100.0%	35.3%	$2,700	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	24.5	200		$8,301	100.0%	35.3%	$2,928	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	195.6	200		$66,836	100.0%	35.3%	$23,580	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	239.5	200		$80,850	100.0%	35.3%	$28,524	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	239.6	200		$80,850	100.0%	35.3%	$28,524	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1990	321.4	200		$107,800	100.0%	35.3%	$38,032	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IAC0000001	Treatment	Actuator	1990				$203,206	61.5%	35.3%	$44,090	Treatment, post 1986
Goulburn, Marys Mount	ICC0000002	Treatment	Compressor and airline	1990				$26,738	61.5%	35.3%	$5,801	Treatment, post 1986
Goulburn	IRO0000001	Reservoir	Eastgrove HZ Internal Road	1990				$58,823	100.0%	35.3%	$20,753	Reservoir, post 1986
Goulburn	IHH0000008	Reservoir	Eastgrove HZ Rails & Ladders	1990				$69,518	100.0%	35.3%	$24,526	Reservoir, post 1986
Goulburn	RES0000008	Reservoir	Eastgrove HZ Reservoir	1990				$331,547	100.0%	35.3%	$116,970	Reservoir, post 1986
Goulburn	RES0000020	Reservoir	Eastgrove HZ Reservoir Membrane Coating	1990				$102,673	100.0%	35.3%	$36,223	Reservoir, post 1986
Goulburn	BSR0000008	Reservoir	Eastgrove HZ Roof	1990				$99,464	100.0%	35.3%	$35,091	Reservoir, post 1986
Goulburn	SUB0000008	Reservoir	Eastgrove HZ Siteworks	1990				$128,341	100.0%	35.3%	$45,279	Reservoir, post 1986
Goulburn	BFN0000005	Reservoir	Fencing	1990				$59,892	100.0%	35.3%	$21,130	Reservoir, post 1986
Goulburn, Marys Mount	ICE0000006	Treatment	Fluoride Feeder Controller	1990				$310,157	61.5%	35.3%	$67,296	Treatment, post 1986
Goulburn	IPW0000010	Reservoir	Local Pipework	1990				$69,518	100.0%	35.3%	$24,526	Reservoir, post 1986
Goulburn	IPW0000011	Reservoir	Local Pipework	1990				$267,376	100.0%	35.3%	$94,331	Reservoir, post 1986
Goulburn, Marys Mount	IWP0000006	Headworks	Pump	1990				$51,336	61.5%	35.3%	$11,139	Headworks, post 1986
Goulburn, Marys Mount	IDS0000002	Headworks	Sooley Dam Spillway	1991				$3,315,467	61.5%	0.0%	$0	Headworks, not growth related
Goulburn, Marys Mount	PIT0000001	Headworks	Sooley Pumpback Chamber	1991				$74,865	61.5%	35.3%	$16,244	Headworks, post 1986, growth related item
Goulburn		Trunkmain	Water Trunkmain	1992	25.8	375		$19,404	100.0%	35.3%	$6,846	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1993	676.1	200		$226,380	100.0%	35.3%	$79,867	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IWW0000008	Reservoir	Chlorine Analyser	1994				$32,085	61.5%	35.3%	$6,962	Reservoir, post 1986
Goulburn, Marys Mount	CTK0000001	Reservoir	Chlorine dosing tank	1994				$3,209	61.5%	35.3%	$696	Reservoir, post 1986
Goulburn, Marys Mount	IWP0000021	Reservoir	Dosing Pump	1994				$7,487	61.5%	35.3%	$1,624	Reservoir, post 1986
Goulburn, Marys Mount	IRO0000010	Reservoir	Internal Road	1994				$64,170	61.5%	35.3%	$13,923	Reservoir, post 1986
Goulburn, Marys Mount	IVC0000006	Reservoir	Valve Pit	1994				$35,294	61.5%	35.3%	$7,658	Reservoir, post 1986
Goulburn		Trunkmain	Water Trunkmain	1995	16.5	300		$7,762	100.0%	35.3%	$2,738	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	17.9	300		$8,408	100.0%	35.3%	$2,966	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	25.4	300		$11,858	100.0%	35.3%	$4,184	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	84.2	300		$39,886	100.0%	35.3%	$14,072	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	176	300		$83,006	100.0%	35.3%	$29,285	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	221.3	300		$104,566	100.0%	35.3%	$36,891	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1995	1709	300		$808,500	100.0%	35.3%	$285,240	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	LLL0000002	Headworks	Crookwell Road	1995				$86,385	61.5%	35.3%	$18,743	Headworks, post 1986
Goulburn, Marys Mount	IWP0000004	Headworks	Pejar Amenities Pump	1995				$3,743	61.5%	35.3%	$812	Headworks, post 1986
Goulburn, Marys Mount	TEL0000014	Headworks	Pejar RTU	1995				$27,807	61.5%	35.3%	$6,033	Headworks, post 1986
Goulburn, Marys Mount	IIW0000005	Headworks	Pejar Tower monitoring equipment	1995				$16,043	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IWW0000004	Treatment	Turbidity meter	1995				$12,834	61.5%	0.0%	$0	Treatment, post 1986; not growth related
Goulburn		Trunkmain	Water Trunkmain	1996	28.49	200		$9,702	100.0%	100.0%	$9,702	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	29.5	200		$10,025	100.0%	100.0%	$10,025	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	57.21	200		$19,404	100.0%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	69.6	200		$23,716	100.0%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	91.2	200		$31,262	100.0%	100.0%	$31,262	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	118.8	200		$39,886	100.0%	100.0%	$39,886	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	123.1	200		$42,042	100.0%	100.0%	$42,042	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	1996	220.2	200		$74,382	100.0%	100.0%	$74,382	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	BSS0000003	Treatment	Chemical shed and foundations	1996				$14,973	61.5%	100.0%	$9,208	Treatment, post 1986
Goulburn		Trunkmain	Water Trunkmain	1997	21.8	375		$16,170	100.0%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	ISW0000009	Reservoir	Switchboard	1997				$80,213	61.5%	100.0%	$49,331	Reservoir, post 1986
Goulburn		Trunkmain	Water Trunkmain	1998	120.9	300		$57,134	100.0%	100.0%	$57,134	Trunkmain, Post 1986 asset

Existing Capital Cost - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Assset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	ILC0000003	Treatment	Ultrasonic Meter	1988				$19,251	38.5%	35.3%	$2,615	Treatment, post 1986
Goulburn, Marys Mount	IDP0000015	Treatment	Chlorinator	1988				$16,043	38.5%	35.3%	$2,179	Treatment, post 1986
Goulburn, Marys Mount	IHG0000001	Treatment	Block and Gantry	1988				$10,695	38.5%	35.3%	$1,453	Treatment, post 1986
Goulburn, Marys Mount	IWP0000006	Headworks	Pump	1990				$51,336	38.5%	35.3%	$6,973	Headworks, post 1986
Goulburn, Marys Mount	ICE0000006	Treatment	Fluoride Feeder Controller	1990				$310,157	38.5%	35.3%	$42,128	Treatment, post 1986
Goulburn, Marys Mount	ICC0000002	Treatment	Compressor and airline	1990				$26,738	38.5%	35.3%	$3,632	Treatment, post 1986
Goulburn, Marys Mount	IAC0000001	Treatment	Actuator	1990				$203,206	38.5%	35.3%	$27,601	Treatment, post 1986
Goulburn, Marys Mount	PIT0000001	Headworks	Sooley Pumpback Chamber	1991				$74,865	38.5%	35.3%	$10,169	Headworks, post 1986; growth related item
Goulburn, Marys Mount	IDS0000002	Headworks	Sooley Dam Spillway	1991				$3,315,467	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IVC0000006	Reservoir	Valve Pit	1994				$35,294	38.5%	35.3%	$4,794	Reservoir, post 1986
Goulburn, Marys Mount	IRO0000010	Reservoir	Internal Road	1994				$64,170	38.5%	35.3%	$8,716	Reservoir, post 1986
Goulburn, Marys Mount	IWP0000021	Reservoir	Dosing Pump	1994				$7,487	38.5%	35.3%	$1,017	Reservoir, post 1986
Goulburn, Marys Mount	CTK0000001	Reservoir	Chlorine dosing tank	1994				$3,209	38.5%	35.3%	$436	Reservoir, post 1986
Goulburn, Marys Mount	IWW0000008	Reservoir	Chlorine Analyser	1994				$32,085	38.5%	35.3%	$4,358	Reservoir, post 1986
Goulburn, Marys Mount	IWW0000004	Treatment	Turbidity meter	1995				$12,834	38.5%	35.3%	$1,743	Treatment, post 1986
Goulburn, Marys Mount	IIW0000005	Headworks	Pejar Tower monitoring equipment	1995				$16,043	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000014	Headworks	Pejar RTU	1995				$27,807	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IWP0000004	Headworks	Pejar Amenities Pump	1995				$3,743	38.5%	35.3%	$508	Headworks, post 1986
Goulburn, Marys Mount	LLL0000002	Headworks	Crookwell Road	1995				$86,385	38.5%	35.3%	$11,734	Headworks, post 1986
Goulburn, Marys Mount	BSS0000003	Treatment	Chemical shed and foundations	1996				$14,973	38.5%	100.0%	$5,765	Treatment, post 1986
Goulburn, Marys Mount	ISW0000009	Reservoir	Switchboard	1997				$80,213	38.5%	100.0%	$30,882	Reservoir, post 1986
Goulburn, Marys Mount	ISS0000003	Reservoir	Safety Shower	1998				$5,348	38.5%	100.0%	$2,059	Reservoir, post 1986
Goulburn, Marys Mount	IWP0000001	Pump Station	River St High Lift Pumps	1998				$48,128	38.5%	100.0%	$18,529	Pump Station, post 1986
Goulburn, Marys Mount	IRO0000002	Headworks	Pejar Road	1998				$77,004	38.5%	100.0%	$29,647	Headworks, post 1986
Goulburn, Marys Mount	ISW0000004	Treatment	Main Switchboard	1998				$97,325	38.5%	100.0%	$37,470	Treatment, post 1986
Goulburn, Marys Mount	IDD0000007	Treatment	Fluoride dust extractor	1998				$12,834	38.5%	100.0%	$4,941	Treatment, post 1986
Goulburn, Marys Mount	ITC0000023	Treatment	WTP Sed Tank 2 Coating	1999				$59,892	38.5%	100.0%	$23,059	Treatment, post 1986
Goulburn, Marys Mount	ITC0000022	Treatment	WTP Sed Tank 1 Coating	1999				$59,892	38.5%	100.0%	$23,059	Treatment, post 1986
Goulburn, Marys Mount	IVE0000006	Treatment	WTP PAC Dosing Dust Extractor	1999				$26,738	38.5%	100.0%	$10,294	Treatment, post 1986
Goulburn, Marys Mount	IRO0000003	Headworks	Sooley Internal Roads	1999				$77,004	38.5%	100.0%	$29,647	Headworks, post 1986
Goulburn, Marys Mount	IPW0000016	Headworks	Pump back pipeline	1999				$278,071	38.5%	100.0%	$107,058	Headworks, post 1986
Goulburn, Marys Mount	IWP0000005	Headworks	PACL dosing pumps	1999				$8,556	38.5%	100.0%	$3,294	Headworks, post 1986
Goulburn, Marys Mount	IDP0000003	Treatment	PAC Dosing System	1999				$69,518	38.5%	100.0%	$26,764	Treatment, post 1986
Goulburn, Marys Mount	BFN0000012	Headworks	Fencing	1999				$181,816	38.5%	100.0%	$69,999	Headworks, post 1986
Goulburn, Marys Mount	IWP0000007	Treatment	Chlorination booster pumps	1999				$32,085	38.5%	100.0%	$12,353	Treatment, post 1986
Goulburn, Marys Mount	IRA0000002	Headworks	Wollondilly River Rain Gauge	2000				$2,674	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IRA0000001	Headworks	Pejar Creek Rain Gauge	2000				$2,674	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	BFN0000011	Headworks	Fencing	2000				$3,636	38.5%	100.0%	$1,400	Headworks, post 1986
Goulburn, Marys Mount	IWW0000001	Reservoir	Chlorine Analyser	2000				$32,085	38.5%	100.0%	$12,353	Reservoir, post 1986
Goulburn, Marys Mount	IRA0000004	Headworks	Cardross Rain Gauge	2000				$2,674	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	ILC0000001	Reservoir	Bradfordville Level	2000				$16,043	38.5%	100.0%	$6,176	Reservoir, post 1986
Goulburn, Marys Mount	WSV0000004	Headworks	Wollondilly River V-notch weir	2001				$69,518	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000016	Headworks	Wollondilly River Telemetry	2001				$23,529	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000008	Headworks	Wollondilly River Gauging Equipment	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000009	Headworks	Wollondilly River Electrical Connections	2001				$5,348	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000004	Headworks	Wollondilly River D/S monitoring equipme	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000002	Headworks	Woll River monitoring equipment	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000025	Reservoir	Telemetry	2001				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	IVC0000001	Headworks	Rossi Valve Chamber	2001				$556,143	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000014	Headworks	Rossi Hydrology equipment	2001				$32,085	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000007	Headworks	Rossi Crump Weir	2001				$94,116	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000003	Headworks	Pejar Creek V-notch weir	2001				$69,518	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000015	Headworks	Pejar Creek Telemetry	2001				$23,529	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000006	Headworks	Pejar Creek Gauging Equipment	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000007	Headworks	Pejar Creek Electrical Connections	2001				$5,348	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000003	Headworks	Pejar Ck monitoring equipment	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related

Existing Capital Cost - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Assset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IWW0000006	Treatment	Monitoring Meters	2001				$79,143	38.5%	0.0%	$0	Treatment, post 1986; not growth related
Goulburn, Marys Mount	ICE0000007	Treatment	Main controller system	2001				$278,071	38.5%	100.0%	$107,058	Treatment, post 1986
Goulburn, Marys Mount	WSV0000006	Headworks	Cardross V-notch weir	2001				$69,518	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000018	Headworks	Cardross Telemetry	2001				$23,529	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000012	Headworks	Cardross Gauging Equipment	2001				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000013	Headworks	Cardross Electrical Connections	2001				$5,348	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000023	Pump Station	Telemetry	2002				$42,780	38.5%	100.0%	$16,470	Pump Station, post 1986
Goulburn, Marys Mount	TEL0000017	Headworks	TEL0000018	2002				$26,738	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000005	Headworks	Sooley Creek V-notch weir	2002				$69,518	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IRA0000003	Headworks	Sooley Creek Rain Gauge	2002				$2,674	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000010	Headworks	Sooley Creek Gauging Equipment	2002				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000011	Headworks	Sooley Creek Electrical Connections	2002				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	BFN0000010	Headworks	Fencing	2002				$4,599	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000008	Headworks	Bumana Creek V-notch weir	2002				$26,738	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000019	Headworks	Bumana Creek Telemetry	2002				$23,529	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IRA0000005	Headworks	Bumana Creek Rain Gauge	2002				$2,674	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000015	Headworks	Bumana Creek Gauging Equipment	2002				$12,834	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000016	Headworks	Bumana Creek Electrical Connections	2002				$5,348	38.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000022	Treatment	Telemetry server and equipment	2003				$48,128	38.5%	100.0%	$18,529	Treatment, post 1986
Goulburn, Marys Mount	TEL0000003	Reservoir	Low Level 2 Telemetry	2003				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000008	Reservoir	High Level 2 Telemetry	2003				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000007	Reservoir	High Level 1 Telemetry	2003				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000011	Reservoir	Bradfordville Telemetry	2003				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000006	Reservoir	Addison St Telemetry	2003				$18,182	38.5%	100.0%	$7,000	Reservoir, post 1986
Goulburn, Marys Mount	IMM0000001	Treatment	Vertical Mixers	2005				$96,256	38.5%	100.0%	$37,058	Treatment, post 1986
Goulburn, Marys Mount	IVC0000004	Headworks	Valve Pit	2005				$21,390	38.5%	100.0%	$8,235	Headworks, post 1986
Goulburn, Marys Mount	TEL0000021	Headworks	Telemetry	2005				$23,529	38.5%	100.0%	$9,059	Headworks, post 1986
Goulburn, Marys Mount	ISW0000007	Headworks	Switchboard	2005				$149,731	38.5%	100.0%	$57,646	Headworks, post 1986
Goulburn, Marys Mount	IVC0000002	Headworks	Sooley Valve House	2005				$139,036	38.5%	100.0%	$53,529	Headworks, post 1986
Goulburn, Marys Mount	IIW0000017	Headworks	Sooley DO Monitoring Equipment	2005				$50,267	38.5%	100.0%	$19,353	Headworks, post 1986
Goulburn, Marys Mount	IDD0000005	Headworks	Sooley Dam Wall Raised and Strengthened	2005				$22,245,714	38.5%	100.0%	$8,564,600	Headworks, post 1986, increased capacity from 4000-6,250ML
Goulburn, Marys Mount	IWV0000003	Headworks	Sooley Dam Valves	2005				$139,036	38.5%	100.0%	$53,529	Headworks, post 1986
Goulburn, Marys Mount	TEL0000020	Headworks	Sooley Dam Telemetry	2005				$37,433	38.5%	100.0%	$14,412	Headworks, post 1986
Goulburn, Marys Mount	ISW0000001	Headworks	Sooley Compressor Switchboard	2005				$58,823	38.5%	100.0%	$22,647	Headworks, post 1986
Goulburn, Marys Mount	ICL0000001	Headworks	Sooley Compressor Discharge Line	2005				$38,502	38.5%	100.0%	$14,823	Headworks, post 1986
Goulburn, Marys Mount	IVC0000017	Headworks	Sooley Compressor Condensate Pit	2005				$10,695	38.5%	100.0%	$4,118	Headworks, post 1986
Goulburn, Marys Mount	BUI0000008	Headworks	Sooley Compressor Building	2005				$56,684	38.5%	100.0%	$21,823	Headworks, post 1986
Goulburn, Marys Mount	ICC0000001	Headworks	Sooley Compressor	2005				$90,908	38.5%	100.0%	$35,000	Headworks, post 1986
Goulburn, Marys Mount	IPW0000018	Headworks	Pipework	2005				$106,951	38.5%	100.0%	$41,176	Headworks, post 1986
Goulburn, Marys Mount	VSD0000001	Treatment	Mixer VSD's	2005				$27,807	38.5%	100.0%	$10,706	Treatment, post 1986
Goulburn, Marys Mount	IPW0000021	Headworks	Local Pipework	2005				$160,426	38.5%	100.0%	$61,764	Headworks, post 1986
Goulburn, Marys Mount	IRR0000001	Treatment	Floc tank walkways and supports	2005				$181,816	38.5%	100.0%	$69,999	Treatment, post 1986
Goulburn, Marys Mount	IBA0000001	Treatment	Floc Tank Baffles	2005				$171,121	38.5%	100.0%	$65,882	Treatment, post 1986
Goulburn, Marys Mount	BFN0000013	Headworks	Fencing	2005				$13,904	38.5%	100.0%	$5,353	Headworks, post 1986
Goulburn, Marys Mount	BUI0000014	Headworks	Copford Building	2005				$81,282	38.5%	100.0%	$31,294	Headworks, post 1986
Goulburn, Marys Mount	ICE0000001	Headworks	Control equipment	2005				$117,646	38.5%	100.0%	$45,294	Headworks, post 1986
Goulburn, Marys Mount	IBO0000001	Headworks	Bores	2005				$72,726	38.5%	100.0%	$28,000	Headworks, post 1986
Goulburn, Marys Mount	RES0000012	Headworks	Balance Tank and Civil Works	2005				$128,341	38.5%	100.0%	$49,411	Headworks, post 1986
Goulburn, Marys Mount	IBU0000004	Treatment	WTP Unloading Bund	2006				$139,036	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000096	Treatment	WTP Poly Vacuum Loader	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000095	Treatment	WTP Poly Transfer Pump	2006				$5,348	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000019	Treatment	WTP Poly Dosing Valves & Fittings	2006				$12,834	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000099	Treatment	WTP Poly Dosing Service water pump	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000093	Treatment	WTP Poly Dosing Pumps	2006				$11,765	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000072	Treatment	WTP Poly Dosing Pipework	2006				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000010	Treatment	WTP Poly Dosing LCP	2006				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000012	Treatment	WTP Poly Dosing Feeder	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS

Existing Capital Cost - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Assset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	ICE0000014	Treatment	WTP Poly Dosing Electrical	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000010	Treatment	WTP Poly Dosing Day Tank	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000011	Treatment	WTP Poly Dosing Agitators	2006				$10,695	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000018	Treatment	WTP Mn Valves & Fittings	2006				$6,417	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000094	Treatment	WTP Mn Vacuum Loader	2006				$12,834	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000008	Treatment	WTP Mn LCP	2006				$8,021	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000008	Treatment	WTP Mn Feeder	2006				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000012	Treatment	WTP Mn Electrical	2006				$8,021	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000092	Treatment	WTP Mn Dosing Pumps	2006				$7,487	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000070	Treatment	WTP Mn Dosing Pipework	2006				$6,417	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000007	Treatment	WTP Mn Agitators	2006				$5,348	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IIU0000001	Treatment	UV Disinfection Unit	2006				$513,363	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IRO0000004	Headworks	Upper Sooley Internal Road	2006				$310,157	38.5%	100.0%	$119,410	Headworks, post 1986
Goulburn, Marys Mount	BSS0000001	Headworks	Shed	2006				$5,882	38.5%	100.0%	$2,265	Headworks, post 1986
Goulburn, Marys Mount	IDD0000006	Headworks	Settling Dam	2006				$203,206	38.5%	100.0%	$78,234	Headworks, post 1986
Goulburn, Marys Mount	IDP0000019	Treatment	Sepa dosing system	2006				$10,695	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000018	Treatment	Polymer dosing system	2006				$12,834	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000017	Headworks	Pipe, valves & fittings	2006				$160,426	38.5%	100.0%	$61,764	Headworks, post 1986
Goulburn, Marys Mount	IDP0000002	Headworks	PACL Dosing Plant	2006				$72,726	38.5%	100.0%	$28,000	Headworks, post 1986
Goulburn, Marys Mount	IGG0000001	Headworks	Generator	2006				$16,043	38.5%	100.0%	$6,176	Headworks, post 1986
Goulburn, Marys Mount	ICE0000004	Treatment	Filter level sensors	2006				$51,336	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	BSS0000002	Treatment	Chemical dosing shed	2006				$72,726	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	BUI0000009	Treatment	Chemical Building	2006				$171,121	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IBU0000001	Treatment	Bunded chemical delivery area	2006				$24,599	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000020	Treatment	WTP Soda Ash Valves	2007				$32,085	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000071	Treatment	WTP Soda Ash Pipework	2007				$69,518	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000009	Treatment	WTP Soda Ash Mixing tanks	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000009	Treatment	WTP Soda Ash LCP	2007				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000023	Treatment	WTP Soda Ash Hopper valves	2007				$32,085	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IIH0000004	Treatment	WTP Soda Ash Hopper	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000010	Treatment	WTP Soda Ash Feeders	2007				$192,511	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000013	Treatment	WTP Soda Ash Electrical	2007				$58,823	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000009	Treatment	WTP Soda Ash Agitators	2007				$24,599	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000098	Treatment	WTP Service Water pumps	2007				$32,085	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000100	Treatment	WTP Service water Pumps	2007				$8,556	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000101	Treatment	WTP Service water Pumps	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000076	Treatment	WTP Service Water Pipework	2007				$90,908	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000011	Treatment	WTP Service water LCP	2007				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000015	Treatment	WTP Service water Electrical	2007				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000006	Treatment	WTP PAC Dosing Venturi Mixers	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000017	Treatment	WTP PAC Dosing Valves & Fittings	2007				$21,390	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000005	Treatment	WTP PAC Dosing Unload Feeder	2007				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000004	Treatment	WTP PAC Dosing Unload Conveyer	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000069	Treatment	WTP PAC Dosing Pipework	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000003	Treatment	WTP PAC Dosing Metering Feeders	2007				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000007	Treatment	WTP PAC Dosing LCP	2007				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000011	Treatment	WTP PAC Dosing Electrical	2007				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IIH0000003	Treatment	WTP PAC Dosing Hoppers	2007				$69,518	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ISW0000048	Treatment	WTP Main Switchboard	2007				$97,325	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000068	Treatment	WTP Chemical Dosing Pipework	2007				$26,738	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICC0000004	Treatment	WTP Chemical Dosing Compressor	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000012	Treatment	WTP Alum Storage Tank	2007				$85,560	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000067	Treatment	WTP Alum Pipework	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000091	Treatment	WTP Alum Dosing Pumps	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000104	Treatment	WTP Alum Dosing Equipment	2007				$21,390	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000008	Treatment	WTP Alum Day Tank	2007				$10,695	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000011	Treatment	WTP Acid Storage Tank	2007				$69,518	38.5%	0.0%	$0	Treatment, purpose was improved LOS

Existing Capital Cost - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Assset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IPW0000075	Treatment	WTP Acid Pipework	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000090	Treatment	WTP Acid Dosing Pumps	2007				$16,043	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000105	Treatment	WTP Acid Dosing Equipment	2007				$21,390	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000007	Treatment	WTP Acid Day Tank	2007				$8,556	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ISW0000002	Treatment	Switchboard	2007				$171,121	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000005	Treatment	Soda Ash Dosing System	2007				$299,462	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWW0000003	Treatment	Chlorine Analyser	2007				$32,085	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000006	Treamtent	Alum Local Control Panel	2007				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000010	Treatment	Alum dosing system	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000012	Treatment	Acid Dosing System	2007				$48,128	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000005	Treatment	Acid Local Control Panel	2007				$37,433	38.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ACC0000091	Headworks	Highlands Source Pipeline	2009				$48,535	38.5%	20.9%	$3,901	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	VSD0000004	Pump Station	Wingcaribee PS VSD	2011				$80,213	38.5%	20.9%	$6,447	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IWV0000022	Pump Station	Wingcaribee PS Valves	2011				$117,646	38.5%	20.9%	$9,456	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IVC0000018	Pump Station	Wingcaribee PS Valve pits	2011				$128,341	38.5%	20.9%	$10,316	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	ISW0000047	Pump Station	Wingcaribee PS Switchboard	2011				$128,341	38.5%	20.9%	$10,316	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IPW0000077	Pump Station	Wingcaribee PS Steel Pipework	2011				$331,547	38.5%	20.9%	$26,649	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IWP0000102	Pump Station	Wingcaribee PS Pumps	2011				$224,596	38.5%	20.9%	$18,052	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	INS0000001	Pump Station	Wingcaribee PS Instrumentation	2011				$106,951	38.5%	20.9%	$8,596	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	BFN0000029	Pump Station	Wingcaribee PS Fencing	2011				$8,984	38.5%	20.9%	$722	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	ICE0000018	Pump Station	Wingcaribee PS Electrical Installations	2011				$95,186	38.5%	20.9%	$7,651	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IOO0000003	Pump Station	Wingcaribee PS Drainage	2011				$32,085	38.5%	20.9%	$2,579	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IHG0000009	Pump Station	Wingcaribee PS Crane	2011				$69,518	38.5%	20.9%	$5,588	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	BUI0000036	Pump Station	Wingcaribee PS Building	2011				$331,547	38.5%	20.9%	$26,649	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount		Trunkmain	Dividing Valve	2011		300		$29,106	38.5%	100.0%	$11,206	Trunkmain, Post 1986 asset
Goulburn, Marys Mount		Trunkmain	Dividing Valve	2011		375		$40,964	38.5%	100.0%	$15,771	Trunkmain, Post 1986 asset

Existing Capital Cost - Water Supply

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn		Trunkmain	Water Trunkmain	1998	1158.4	300		$549,780	100.0%	100.0%	$549,780	Trunkmain, Post 1986 asset
Goulburn	BUI0000007	Reservoir	Eastgrove Chlorination Building	1998				$17,112	100.0%	100.0%	$17,112	Reservoir, post 1986
Goulburn	IDP0000001	Reservoir	Eastgrove Chlorination Dosing Unit	1998				$2,674	100.0%	100.0%	$2,674	Reservoir, post 1986
Goulburn	IWP0000003	Reservoir	Eastgrove Chlorine Dosing Pump 1	1998				$3,743	100.0%	100.0%	$3,743	Reservoir, post 1986
Goulburn	IWP0000002	Reservoir	Eastgrove Chlorine Dosing Pump 2	1998				$3,743	100.0%	100.0%	$3,743	Reservoir, post 1986
Goulburn	ISS0000001	Reservoir	Eastgrove Safety Shower	1998				$2,674	100.0%	100.0%	$2,674	Reservoir, post 1986
Goulburn, Marys Mount	IDD0000007	Treatment	Fluoride dust extractor	1998				$12,834	61.5%	100.0%	$7,893	Treatment, post 1986
Goulburn, Marys Mount	ISW0000004	Treatment	Main Switchboard	1998				$97,325	61.5%	100.0%	$59,855	Treatment, post 1986
Goulburn, Marys Mount	IRO0000002	Headworks	Pejar Road	1998				$77,004	61.5%	100.0%	$47,358	Headworks, post 1986
Goulburn, Marys Mount	IWP0000001	Pump Station	River St High Lift Pumps	1998				$48,128	61.5%	100.0%	$29,599	Pump Station, post 1986
Goulburn, Marys Mount	ISS0000003	Reservoir	Safety Shower	1998				$5,348	61.5%	100.0%	$3,289	Reservoir, post 1986
Goulburn, Marys Mount	IWP0000007	Treatment	Chlorination booster pumps	1999				$32,085	61.5%	100.0%	$19,732	Treatment, post 1986
Goulburn, Marys Mount	BFN0000012	Headworks	Fencing	1999				$181,816	61.5%	100.0%	$111,817	Headworks, post 1986
Goulburn, Marys Mount	IDP0000003	Treatment	PAC Dosing System	1999				$69,518	61.5%	100.0%	$42,753	Treatment, post 1986
Goulburn, Marys Mount	IWP0000005	Headworks	PACL dosing pumps	1999				$8,556	61.5%	100.0%	$5,262	Headworks, post 1986
Goulburn, Marys Mount	IPW0000016	Headworks	Pump back pipeline	1999				$278,071	61.5%	100.0%	$171,014	Headworks, post 1986
Goulburn, Marys Mount	IRO0000003	Headworks	Sooley Internal Roads	1999				$77,004	61.5%	100.0%	$47,358	Headworks, post 1986
Goulburn, Marys Mount	IVE0000006	Treatment	WTP PAC Dosing Dust Extractor	1999				$26,738	61.5%	100.0%	$16,444	Treatment, post 1986
Goulburn, Marys Mount	ITC0000022	Treatment	WTP Sed Tank 1 Coating	1999				$59,892	61.5%	100.0%	$36,834	Treatment, post 1986
Goulburn, Marys Mount	ITC0000023	Treatment	WTP Sed Tank 2 Coating	1999				$59,892	61.5%	100.0%	$36,834	Treatment, post 1986
Goulburn		Trunkmain	Water Trunkmain	2000	12.7	300		$6,037	100.0%	100.0%	$6,037	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2000	90.3	200		$30,184	100.0%	100.0%	$30,184	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2000	116.5	300		$54,978	100.0%	100.0%	$54,978	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2000	137.8	300		$64,680	100.0%	100.0%	$64,680	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2000	341.1	300		$161,700	100.0%	100.0%	$161,700	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	ILC0000001	Reservoir	Bradfordville Level	2000				$16,043	61.5%	100.0%	$9,866	Reservoir, post 1986
Goulburn, Marys Mount	IRA0000004	Headworks	Cardross Rain Gauge	2000				$2,674	61.5%	100.0%	$1,644	Headworks, post 1986
Goulburn	IWW0000007	Pump Station	Chlorine analyser	2000				$32,085	100.0%	100.0%	$32,085	Pump Station, post 1986
Goulburn, Marys Mount	IWW0000001	Reservoir	Chlorine Analyser	2000				$32,085	61.5%	100.0%	$19,732	Reservoir, post 1986
Goulburn	IWW0000002	Reservoir	Chlorine Analyser	2000				$32,085	100.0%	100.0%	$32,085	Reservoir, post 1986
Goulburn	ILC0000002	Reservoir	Craigs Hill Level	2000				$16,043	100.0%	100.0%	$16,043	Reservoir, post 1986
Goulburn	IWP0000019	Pump Station	Dosing Pump	2000				$7,487	100.0%	100.0%	$7,487	Pump Station, post 1986
Goulburn, Marys Mount	BFN0000011	Headworks	Fencing	2000				$3,636	61.5%	100.0%	$2,236	Headworks, post 1986
Goulburn, Marys Mount	IRA0000001	Headworks	Pejar Creek Rain Gauge	2000				$2,674	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn	IIS0000002	Pump Station	Safety Shower	2000				$5,348	100.0%	100.0%	$5,348	Pump Station, post 1986
Goulburn, Marys Mount	IRA0000002	Headworks	Wollondilly River Rain Gauge	2000				$2,674	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn		Trunkmain	Water Trunkmain	2001	10	150		$2,479	100.0%	100.0%	$2,479	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	10.9	200		$3,665	100.0%	100.0%	$3,665	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	20.1	200		$6,791	100.0%	100.0%	$6,791	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	89.32	200		$30,184	100.0%	100.0%	$30,184	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	143.8	150		$35,574	100.0%	100.0%	$35,574	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	132	200		$45,276	100.0%	100.0%	$45,276	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	208.9	200		$71,148	100.0%	100.0%	$71,148	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2001	522.3	200		$172,480	100.0%	100.0%	$172,480	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IIW0000013	Headworks	Cardross Electrical Connections	2001				$5,348	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000012	Headworks	Cardross Gauging Equipment	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000018	Headworks	Cardross Telemetry	2001				$23,529	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000006	Headworks	Cardross V-notch weir	2001				$69,518	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn	BFN0000006	Reservoir	Fencing	2001				$10,695	100.0%	100.0%	$10,695	Reservoir, post 1986
Goulburn, Marys Mount	ICE0000007	Treatment	Main controller system	2001				$278,071	61.5%	100.0%	$171,014	Treatment, post 1986
Goulburn, Marys Mount	IWW0000006	Treatment	Monitoring Meters	2001				$79,143	61.5%	100.0%	$48,673	Treatment, post 1986
Goulburn, Marys Mount	IIW0000003	Headworks	Pejar Ck monitoring equipment	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000007	Headworks	Pejar Creek Electrical Connections	2001				$5,348	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000006	Headworks	Pejar Creek Gauging Equipment	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000015	Headworks	Pejar Creek Telemetry	2001				$23,529	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000003	Headworks	Pejar Creek V-notch weir	2001				$69,518	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000007	Headworks	Rossi Crump Weir	2001				$94,116	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000014	Headworks	Rossi Hydrology equipment	2001				$32,085	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IVC0000001	Headworks	Rossi Valve Chamber	2001				$556,143	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn	TEL0000024	Pump Station	Telemetry	2001				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986
Goulburn	TEL0000026	Pump Station	Telemetry	2001				$19,251	100.0%	100.0%	$19,251	Pump Station, post 1986
Goulburn, Marys Mount	TEL0000025	Reservoir	Telemetry	2001				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn, Marys Mount	IIW0000002	Headworks	Woll River monitoring equipment	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000004	Headworks	Wollondilly River D/S monitoring equipme	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000009	Headworks	Wollondilly River Electrical Connections	2001				$5,348	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000008	Headworks	Wollondilly River Gauging Equipment	2001				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000016	Headworks	Wollondilly River Telemetry	2001				$23,529	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000004	Headworks	Wollondilly River V-notch weir	2001				$69,518	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn		Trunkmain	Water Trunkmain	2002	81	200		$28,028	100.0%	100.0%	$28,028	Trunkmain, Post 1986 asset

Existing Capital Cost - Water Supply

Service Area | Goulburn

Year of Calculation | 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn		Trunkmain	Water Trunkmain	2002	93.3	200		$31,262	100.0%	100.0%	$31,262	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2002	106.9	200		$36,652	100.0%	100.0%	$36,652	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2002	108.7	200		$36,652	100.0%	100.0%	$36,652	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2002	184.2	200		$62,524	100.0%	100.0%	$62,524	Trunkmain, Post 1986 asset
Goulburn	IWP0000020	Reservoir	Bradfordville Pump 1	2002				$96,256	100.0%	100.0%	$96,256	Reservoir, post 1986
Goulburn, Marys Mount	IIW0000016	Headworks	Bumana Creek Electrical Connections	2002				$5,348	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000015	Headworks	Bumana Creek Gauging Equipment	2002				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IRA0000005	Headworks	Bumana Creek Rain Gauge	2002				$2,674	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000019	Headworks	Bumana Creek Telemetry	2002				$23,529	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000008	Headworks	Bumana Creek V-notch weir	2002				$26,738	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	BFN0000010	Headworks	Fencing	2002				$4,599	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000011	Headworks	Sooley Creek Electrical Connections	2002				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IIW0000010	Headworks	Sooley Creek Gauging Equipment	2002				$12,834	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	IRA0000003	Headworks	Sooley Creek Rain Gauge	2002				$2,674	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	WSV0000005	Headworks	Sooley Creek V-notch weir	2002				$69,518	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000017	Headworks	TEL0000018	2002				$26,738	61.5%	0.0%	$0	Headworks, post 1986; not growth related
Goulburn, Marys Mount	TEL0000023	Pump Station	Telemetry	2002				$42,780	61.5%	100.0%	$26,310	Pump Station, post 1986
Goulburn		Trunkmain	Water Trunkmain	2003	220.3	300		$104,566	100.0%	100.0%	$104,566	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2003	487.9	200		$161,700	100.0%	100.0%	$161,700	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	TEL0000006	Reservoir	Addison St Telemetry	2003				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000011	Reservoir	Bradfordville Telemetry	2003				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn	TEL0000009	Reservoir	Eastgrove HZ Telemetry	2003				$18,182	100.0%	100.0%	$18,182	Reservoir, post 1986
Goulburn	TEL0000010	Reservoir	Eastgrove LZ Telemetry	2003				$18,182	100.0%	100.0%	$18,182	Reservoir, post 1986
Goulburn	BFN0000007	Reservoir	Fencing	2003				$10,695	100.0%	100.0%	$10,695	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000007	Reservoir	High Level 1 Telemetry	2003				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000008	Reservoir	High Level 2 Telemetry	2003				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000003	Reservoir	Low Level 2 Telemetry	2003				$18,182	61.5%	100.0%	$11,182	Reservoir, post 1986
Goulburn	TEL0000004	Reservoir	Ridge St 1 Telemetry	2003				$18,182	100.0%	100.0%	$18,182	Reservoir, post 1986
Goulburn, Marys Mount	TEL0000022	Treatment	Telemetry server and equipment	2003				$48,128	61.5%	100.0%	$29,599	Treatment, post 1986
Goulburn, Marys Mount	RES0000012	Headworks	Balance Tank and Civil Works	2005				$128,341	61.5%	100.0%	$78,930	Headworks, post 1986
Goulburn, Marys Mount	IBO0000001	Headworks	Bores	2005				$72,726	61.5%	100.0%	$44,727	Headworks, post 1986
Goulburn, Marys Mount	ICE0000001	Headworks	Control equipment	2005				$117,646	61.5%	100.0%	$72,352	Headworks, post 1986
Goulburn, Marys Mount	BUI0000014	Headworks	Copford Building	2005				$81,282	61.5%	100.0%	$49,989	Headworks, post 1986
Goulburn, Marys Mount	BFN0000013	Headworks	Fencing	2005				$13,904	61.5%	100.0%	$8,551	Headworks, post 1986
Goulburn, Marys Mount	IBA0000001	Treatment	Floc Tank Baffles	2005				$171,121	61.5%	100.0%	$105,239	Treatment, post 1986
Goulburn, Marys Mount	IRR0000001	Treatment	Floc tank walkways and supports	2005				$181,816	61.5%	100.0%	$111,817	Treatment, post 1986
Goulburn, Marys Mount	IPW0000021	Headworks	Local Pipework	2005				$160,426	61.5%	100.0%	$98,662	Headworks, post 1986
Goulburn, Marys Mount	VSD0000001	Treatment	Mixer VSD's	2005				$27,807	61.5%	100.0%	$17,101	Treatment, post 1986
Goulburn, Marys Mount	IPW0000018	Headworks	Pipework	2005				$106,951	61.5%	100.0%	$65,775	Headworks, post 1986
Goulburn, Marys Mount	ICC0000001	Headworks	Sooley Compressor	2005				$90,908	61.5%	100.0%	$55,908	Headworks, post 1986
Goulburn, Marys Mount	BUI0000008	Headworks	Sooley Compressor Building	2005				$56,684	61.5%	100.0%	$34,861	Headworks, post 1986
Goulburn, Marys Mount	IVC0000017	Headworks	Sooley Compressor Condensate Pit	2005				$10,695	61.5%	100.0%	$6,577	Headworks, post 1986
Goulburn, Marys Mount	ICL0000001	Headworks	Sooley Compressor Discharge Line	2005				$38,502	61.5%	100.0%	$23,679	Headworks, post 1986
Goulburn, Marys Mount	ISW0000001	Headworks	Sooley Compressor Switchboard	2005				$58,823	61.5%	100.0%	$36,176	Headworks, post 1986
Goulburn, Marys Mount	TEL0000020	Headworks	Sooley Dam Telemetry	2005				$37,433	61.5%	100.0%	$23,021	Headworks, post 1986
Goulburn, Marys Mount	IWV0000003	Headworks	Sooley Dam Valves	2005				$139,036	61.5%	100.0%	$85,507	Headworks, post 1986
Goulburn, Marys Mount	IDD0000005	Headworks	Sooley Dam Wall Raised and Strengthened	2005				$22,245,714	61.5%	100.0%	$13,681,114	Headworks, post 1986, increased capacity from 4000-6,250ML
Goulburn, Marys Mount	IIW0000017	Headworks	Sooley DO Monitoring Equipment	2005				$50,267	61.5%	100.0%	$30,914	Headworks, post 1986
Goulburn, Marys Mount	IVC0000002	Headworks	Sooley Valve House	2005				$139,036	61.5%	100.0%	$85,507	Headworks, post 1986
Goulburn, Marys Mount	ISW0000007	Headworks	Switchboard	2005				$149,731	61.5%	100.0%	$92,084	Headworks, post 1986
Goulburn, Marys Mount	TEL0000021	Headworks	Telemetry	2005				$23,529	61.5%	100.0%	$14,470	Headworks, post 1986
Goulburn, Marys Mount	IVC0000004	Headworks	Valve Pit	2005				$21,390	61.5%	100.0%	$13,155	Headworks, post 1986
Goulburn, Marys Mount	IMM0000001	Treatment	Vertical Mixers	2005				$96,256	61.5%	100.0%	$59,197	Treatment, post 1986
Goulburn, Marys Mount	IBU0000001	Treatment	Bunded chemical delivery area	2006				$24,599	61.5%	100.0%	$15,128	Treatment, post 1986
Goulburn, Marys Mount	BUI0000009	Treatment	Chemical Building	2006				$171,121	61.5%	100.0%	$105,239	Treatment, post 1986
Goulburn, Marys Mount	BSS0000002	Treatment	Chemical dosing shed	2006				$72,726	61.5%	100.0%	$44,727	Treatment, post 1986
Goulburn	BFN0000002	Reservoir	Fencing	2006				$34,224	100.0%	100.0%	$34,224	Reservoir, post 1986
Goulburn, Marys Mount	ICE0000004	Treatment	Filter level sensors	2006				$51,336	61.5%	100.0%	$31,572	Treatment, post 1986
Goulburn, Marys Mount	IGG0000001	Headworks	Generator	2006				$16,043	61.5%	100.0%	$9,866	Headworks, post 1986
Goulburn	IPW0000005	Reservoir	Local Pipework	2006				$181,816	100.0%	100.0%	$181,816	Reservoir, post 1986
Goulburn, Marys Mount	IDP0000002	Headworks	PACL Dosing Plant	2006				$72,726	61.5%	100.0%	$44,727	Headworks, post 1986
Goulburn, Marys Mount	IPW0000017	Headworks	Pipe, valves & fittings	2006				$160,426	61.5%	100.0%	$98,662	Headworks, post 1986
Goulburn, Marys Mount	IDP0000018	Treatment	Polymer dosing system	2006				$12,834	61.5%	100.0%	$7,893	Treatment, post 1986
Goulburn	IHH0000004	Reservoir	Ridge St 2 Rails & Ladders	2006				$128,341	100.0%	100.0%	$128,341	Reservoir, post 1986
Goulburn	RES0000004	Reservoir	Ridge St 2 Reservoir	2006				$534,753	100.0%	100.0%	$534,753	Reservoir, post 1986
Goulburn	RES0000024	Reservoir	Ridge St 2 Reservoir Membrane Coating	2006				$171,121	100.0%	100.0%	$171,121	Reservoir, post 1986
Goulburn	BSR0000004	Reservoir	Ridge St 2 Roof	2006				$235,291	100.0%	100.0%	$235,291	Reservoir, post 1986
Goulburn	TEL0000005	Reservoir	Ridge St 2 Telemetry	2006				$18,182	100.0%	100.0%	$18,182	Reservoir, post 1986
Goulburn, Marys Mount	IDP0000019	Treatment	Sepa dosing system	2006				$10,695	61.5%	100.0%	$6,577	Treatment, post 1986

Existing Capital Cost - Water Supply

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IDD0000006	Headworks	Settling Dam	2006				$203,206	61.5%	100.0%	$124,972	Headworks, post 1986
Goulburn, Marys Mount	BSS0000001	Headworks	Shed	2006				$5,882	61.5%	100.0%	$3,618	Headworks, post 1986
Goulburn, Marys Mount	IRO0000004	Headworks	Upper Sooley Internal Road	2006				$310,157	61.5%	100.0%	$190,746	Headworks, post 1986
Goulburn, Marys Mount	IIU0000001	Treatment	UV Disinfection Unit	2006				$513,363	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000007	Treatment	WTP Mn Agitators	2006				$5,348	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000070	Treatment	WTP Mn Dosing Pipework	2006				$6,417	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000092	Treatment	WTP Mn Dosing Pumps	2006				$7,487	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000012	Treatment	WTP Mn Electrical	2006				$8,021	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000008	Treatment	WTP Mn Feeder	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000008	Treatment	WTP Mn LCP	2006				$8,021	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000094	Treatment	WTP Mn Vacuum Loader	2006				$12,834	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000018	Treatment	WTP Mn Valves & Fittings	2006				$6,417	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000011	Treatment	WTP Poly Dosing Agitators	2006				$10,695	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000010	Treatment	WTP Poly Dosing Day Tank	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000014	Treatment	WTP Poly Dosing Electrical	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000012	Treatment	WTP Poly Dosing Feeder	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000010	Treatment	WTP Poly Dosing LCP	2006				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000072	Treatment	WTP Poly Dosing Pipework	2006				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000093	Treatment	WTP Poly Dosing Pumps	2006				$11,765	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000099	Treatment	WTP Poly Dosing Service water pump	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000019	Treatment	WTP Poly Dosing Valves & Fittings	2006				$12,834	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000095	Treatment	WTP Poly Transfer Pump	2006				$5,348	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000096	Treatment	WTP Poly Vacuum Loader	2006				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IBU0000004	Treatment	WTP Unloading Bund	2006				$139,036	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000012	Treatment	Acid Dosing System	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000005	Treatment	Acid Local Control Panel	2007				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000010	Treatment	Alum dosing system	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000006	Treamtent	Alum Local Control Panel	2007				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWW0000003	Treatment	Chlorine Analyser	2007				$32,085	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IDP0000005	Treatment	Soda Ash Dosing System	2007				$299,462	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ISW0000002	Treatment	Switchboard	2007				$171,121	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000007	Treatment	WTP Acid Day Tank	2007				$8,556	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000105	Treatment	WTP Acid Dosing Equipment	2007				$21,390	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000090	Treatment	WTP Acid Dosing Pumps	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000075	Treatment	WTP Acid Pipework	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000011	Treatment	WTP Acid Storage Tank	2007				$69,518	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000008	Treatment	WTP Alum Day Tank	2007				$10,695	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000104	Treatment	WTP Alum Dosing Equipment	2007				$21,390	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000091	Treatment	WTP Alum Dosing Pumps	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000067	Treatment	WTP Alum Pipework	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000012	Treatment	WTP Alum Storage Tank	2007				$85,560	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICC0000004	Treatment	WTP Chemical Dosing Compressor	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000068	Treatment	WTP Chemical Dosing Pipework	2007				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ISW0000048	Treatment	WTP Main Switchboard	2007				$97,325	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IIH0000003	Treatment	WTP PAC Dosing Hoppers	2007				$69,518	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000011	Treatment	WTP PAC Dosing Electrical	2007				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000007	Treatment	WTP PAC Dosing LCP	2007				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000003	Treatment	WTP PAC Dosing Metering Feeders	2007				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000069	Treatment	WTP PAC Dosing Pipework	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000004	Treatment	WTP PAC Dosing Unload Conveyer	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000005	Treatment	WTP PAC Dosing Unload Feeder	2007				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000017	Treatment	WTP PAC Dosing Valves & Fittings	2007				$21,390	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000006	Treatment	WTP PAC Dosing Venturi Mixers	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000015	Treatment	WTP Service water Electrical	2007				$37,433	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000011	Treatment	WTP Service water LCP	2007				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000076	Treatment	WTP Service Water Pipework	2007				$90,908	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000098	Treatment	WTP Service Water pumps	2007				$32,085	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000100	Treatment	WTP Service water Pumps	2007				$8,556	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWP0000101	Treatment	WTP Service water Pumps	2007				$16,043	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000009	Treatment	WTP Soda Ash Agitators	2007				$24,599	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICE0000013	Treatment	WTP Soda Ash Electrical	2007				$58,823	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IMM0000010	Treatment	WTP Soda Ash Feeders	2007				$192,511	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IIH0000004	Treatment	WTP Soda Ash Hopper	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000023	Treatment	WTP Soda Ash Hopper valves	2007				$32,085	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	ICP0000009	Treatment	WTP Soda Ash LCP	2007				$26,738	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	CTK0000009	Treatment	WTP Soda Ash Mixing tanks	2007				$48,128	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IPW0000071	Treatment	WTP Soda Ash Pipework	2007				$69,518	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn, Marys Mount	IWV0000020	Treatment	WTP Soda Ash Valves	2007				$32,085	61.5%	0.0%	$0	Treatment, purpose was improved LOS
Goulburn		Trunkmain	Water Trunkmain	2008	94	200		$32,340	100.0%	100.0%	$32,340	Trunkmain, Post 1986 asset

Existing Capital Cost - Water Supply

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn		Trunkmain	Water Trunkmain	2008	1329	250		$560,560	100.0%	100.0%	$560,560	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2008	1785	250		$754,600	100.0%	100.0%	$754,600	Trunkmain, Post 1986 asset
Goulburn	ACC0000106	Reservoir	Ridge Street Reservoir	2008				$32,085	100.0%	100.0%	$32,085	Reservoir, post 1986
Goulburn		Trunkmain	Water Trunkmain	2009	13.8	200		$4,635	100.0%	100.0%	$4,635	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	ACC0000091	Headworks	Highlands Source Pipeline	2009				$48,535	61.5%	50.0%	$14,925	HSP, Post 1986, GMC estimated 50% for improved LOS, 50% for future growth
Goulburn	ACC0000129	Reservoir	Overhead Standpipe Upgrades	2009				$21,390	100.0%	100.0%	$21,390	Reservoir, post 1986
Goulburn		Trunkmain	Water Trunkmain	2010	82	375		$60,368	100.0%	100.0%	$60,368	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2010	1130	450		$1,078,000	100.0%	100.0%	$1,078,000	Trunkmain, Post 1986 asset
Goulburn, Marys Mount		Trunkmain	Dividing Valve	2011		300		$29,106	61.5%	100.0%	$17,900	Trunkmain, Post 1986 asset
Goulburn, Marys Mount		Trunkmain	Dividing Valve	2011		375		$40,964	61.5%	100.0%	$25,193	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2011	205.3	250		$86,240	100.0%	100.0%	$86,240	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Water Trunkmain	2011	421	200		$140,140	100.0%	100.0%	$140,140	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	BUI0000036	Pump Station	Wingcaribee PS Building	2011				$331,547	61.5%	20.9%	$42,569	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IHG0000009	Pump Station	Wingcaribee PS Crane	2011				$69,518	61.5%	20.9%	$8,926	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IOO0000003	Pump Station	Wingcaribee PS Drainage	2011				$32,085	61.5%	20.9%	$4,120	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	ICE0000018	Pump Station	Wingcaribee PS Electrical Installations	2011				$95,186	61.5%	20.9%	$12,221	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	BFN0000029	Pump Station	Wingcaribee PS Fencing	2011				$8,984	61.5%	20.9%	$1,153	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	INS0000001	Pump Station	Wingcaribee PS Instrumentation	2011				$106,951	61.5%	20.9%	$13,732	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IWP0000102	Pump Station	Wingcaribee PS Pumps	2011				$224,596	61.5%	20.9%	$28,837	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IPW0000077	Pump Station	Wingcaribee PS Steel Pipework	2011				$331,547	61.5%	20.9%	$42,569	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	ISW0000047	Pump Station	Wingcaribee PS Switchboard	2011				$128,341	61.5%	20.9%	$16,478	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IVC0000018	Pump Station	Wingcaribee PS Valve pits	2011				$128,341	61.5%	20.9%	$16,478	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	IWV0000022	Pump Station	Wingcaribee PS Valves	2011				$117,646	61.5%	20.9%	$15,105	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon
Goulburn, Marys Mount	VSD0000004	Pump Station	Wingcaribee PS VSD	2011				$80,213	61.5%	20.9%	$10,299	HSP, Post 1986, partly improved LOS, partly for growth over 30-yr planning horizon

Existing Capital Cost - Water Supply

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Marulan	RES0000013	Treatment	Water Tank	1998				$35,294	100.0%	25.1%	$8,843	Treatment, post 1986; partly to service existing population
Marulan	ISV0000005	Treatment	Valves	1998				$56,684	100.0%	25.1%	$14,203	Treatment, post 1986; partly to service existing population
Marulan	BSW0000001	Treatment	Tank	1998				$26,738	100.0%	25.1%	$6,699	Treatment, post 1986; partly to service existing population
Marulan	RES0000014	Treatment	Tank	1998				$8,021	100.0%	25.1%	$2,010	Treatment, post 1986; partly to service existing population
Marulan	ISS0000004	Treatment	Safety Shower	1998				$5,348	100.0%	25.1%	$1,340	Treatment, post 1986; partly to service existing population
Marulan	IWP0000026	Treatment	Pumps	1998				$34,224	100.0%	25.1%	$8,575	Treatment, post 1986; partly to service existing population
Marulan	IWP0000027	Treatment	Pump	1998				$34,224	100.0%	25.1%	$8,575	Treatment, post 1986; partly to service existing population
Marulan	IWP0000028	Treatment	Pump	1998				$21,390	100.0%	25.1%	$5,360	Treatment, post 1986; partly to service existing population
Marulan	IWP0000029	Treatment	Pump	1998				$48,128	100.0%	25.1%	$12,059	Treatment, post 1986; partly to service existing population
Marulan	IWP0000030	Treatment	Pump	1998				$23,529	100.0%	25.1%	$5,895	Treatment, post 1986; partly to service existing population
Marulan	BSS0000004	Treatment	Marulan WTP Shed	1998				$104,812	100.0%	25.1%	$26,262	Treatment, post 1986; partly to service existing population
Marulan	IWP0000025	Treatment	Marulan Pump	1998				$21,390	100.0%	25.1%	$5,360	Treatment, post 1986; partly to service existing population
Marulan	CTK0000006	Treatment	Marulan Membrane Unit Casing	1998				$235,291	100.0%	25.1%	$58,955	Treatment, post 1986; partly to service existing population
Marulan	ILD0000001	Treatment	Marulan lined earth dam	1998				$588,228	100.0%	25.1%	$147,387	Treatment, post 1986; partly to service existing population
Marulan	ILD0000002	Treatment	Marulan lined earth dam	1998				$105,881	100.0%	25.1%	$26,530	Treatment, post 1986; partly to service existing population
Marulan	ILD0000003	Treatment	Marulan lined earth dam	1998				$100,534	100.0%	25.1%	$25,190	Treatment, post 1986; partly to service existing population
Marulan	IDD0000017	Treatment	Marulan HL Storage Dam Liner	1998				$171,121	100.0%	25.1%	$42,876	Treatment, post 1986; partly to service existing population
Marulan	IWP0000024	Treatment	Marulan Dam Pumps	1998				$49,197	100.0%	25.1%	$12,327	Treatment, post 1986; partly to service existing population
Marulan	ICC0000003	Treatment	Marulan Compressor	1998				$38,502	100.0%	25.1%	$9,647	Treatment, post 1986; partly to service existing population
Marulan	RES0000025	Treatment	Marulan Buffer Tank	1998				$139,036	100.0%	25.1%	$34,837	Treatment, post 1986; partly to service existing population
Marulan	IDD0000016	Treatment	Marulan Backwash Lagoon 2 Liner	1998				$39,572	100.0%	25.1%	$9,915	Treatment, post 1986; partly to service existing population
Marulan	IDD0000015	Treatment	Marulan Backwash Lagoon 1 Liner	1998				$43,850	100.0%	25.1%	$10,987	Treatment, post 1986; partly to service existing population
Marulan	IPW0000025	Treatment	Local pipework and valves	1998				$192,511	100.0%	25.1%	$48,236	Treatment, post 1986; partly to service existing population
Marulan	IRO0000012	Treatment	Internal Road	1998				$17,112	100.0%	25.1%	$4,288	Treatment, post 1986; partly to service existing population
Marulan	IRO0000013	Treatment	Internal Road	1998				$25,668	100.0%	25.1%	$6,431	Treatment, post 1986; partly to service existing population
Marulan	CTK0000002	Treatment	Gebel tank	1998				$8,021	100.0%	25.1%	$2,010	Treatment, post 1986; partly to service existing population
Marulan	IHG0000002	Treatment	Gantry	1998				$6,952	100.0%	25.1%	$1,742	Treatment, post 1986; partly to service existing population
Marulan	BFN0000014	Treatment	Fencing	1998				$91,977	100.0%	25.1%	$23,046	Treatment, post 1986; partly to service existing population
Marulan	ICE0000005	Treatment	Control Panel	1998				$128,341	100.0%	25.1%	$32,157	Treatment, post 1986; partly to service existing population
Marulan	IDP0000020	Treatment	Chlorination equipment	1998				$80,213	100.0%	25.1%	$20,098	Treatment, post 1986; partly to service existing population
Marulan	IBL0000001	Treatment	Blowers	1998				$42,780	100.0%	25.1%	$10,719	Treatment, post 1986; partly to service existing population
Marulan	IWP0000032	Treatment	Marulan Pump 2	1999				$48,128	100.0%	25.1%	$12,059	Treatment, post 1986; partly to service existing population
Marulan	IWP0000031	Treatment	Marulan Pump 1	1999				$48,128	100.0%	25.1%	$12,059	Treatment, post 1986; partly to service existing population
Marulan	IIS0000001	Treatment	Safety Shower	2000				$5,348	100.0%	25.1%	$1,340	Treatment, post 1986; partly to service existing population
Marulan	IWP0000033	Treatment	Chlorine pump	2000				$16,043	100.0%	25.1%	$4,020	Treatment, post 1986; partly to service existing population
Marulan	IWW0000009	Treatment	Chlorine Analyser	2000				$32,085	100.0%	25.1%	$8,039	Treatment, post 1986; partly to service existing population
Marulan	IWV0000015	Pump Station	Brayton PS Screen	2000				$5,348	100.0%	100.0%	$5,348	Pump Station, post 1986
Marulan	IWV0000014	Pump Station	Brayton PS Foot Valve	2000				$6,417	100.0%	100.0%	$6,417	Pump Station, post 1986
Marulan	BSR0000012	Headworks	Balance Tank Roof Roof	2000				$37,433	100.0%	100.0%	$37,433	Headworks, post 1986
Marulan	TEL0000027	Headworks	Telemetry	2001				$18,182	100.0%	100.0%	$18,182	Headworks, post 1986
Marulan	TEL0000028	Reservoir	Telemetry	2001				$18,182	100.0%	100.0%	$18,182	Reservoir, post 1986
Marulan	VSD0000003	Pump Station	Brayton PS VSD	2005				$5,348	100.0%	100.0%	$5,348	Pump Station, post 1986
Marulan	IWV0000016	Pump Station	Brayton PS Valves	2005				$19,251	100.0%	100.0%	$19,251	Pump Station, post 1986
Marulan	ISW0000046	Pump Station	Brayton PS Switchboard	2005				$26,738	100.0%	100.0%	$26,738	Pump Station, post 1986
Marulan	IWP0000097	Pump Station	Brayton PS Pumps	2005				$42,780	100.0%	100.0%	$42,780	Pump Station, post 1986
Marulan	ICE0000019	Pump Station	Brayton PS Electrics	2005				$12,834	100.0%	100.0%	$12,834	Pump Station, post 1986
Marulan	ICP0000004	Treatment	Marulan Floc Local Control Panel	2007				$8,021	100.0%	25.1%	$2,013	Treatment, post 1986
Marulan	CTK0000005	Treatment	Marulan Floc Dosing Storage Tank	2007				$1,604	100.0%	25.1%	$403	Treatment, post 1986
Marulan	IWP0000089	Treatment	Marulan Floc Dosing Pumps	2007				$7,487	100.0%	25.1%	$1,879	Treatment, post 1986
Marulan	ACC0000112	Treatment	Marulan Water Telemetry	2008				$75,173	0.0%	25.1%	$0	Treatment, post 1986; improved LOS

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	IPW-0004219	Trunkmain	Sewer Main	1986	44.8	225		$10,780	100%	24.8%	$2,676	Trunkmain, Post 1986 asset
Goulburn	IPW-0004220	Trunkmain	Sewer Main	1986	21.4	225		$5,282	100%	24.8%	$1,311	Trunkmain, Post 1986 asset
Goulburn	IPW-0004221	Trunkmain	Sewer Main	1986	40.5	225		$10,025	100%	24.8%	$2,488	Trunkmain, Post 1986 asset
Goulburn	IPW-0004222	Trunkmain	Sewer Main	1986	40.5	225		$10,025	100%	24.8%	$2,488	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	1986	378.0	200		$150,920	100%	24.8%	$37,460	Trunkmain, Post 1986 asset
Goulburn	IPW-0004235	Trunkmain	Sewer Main	1987	61.3	225		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004236	Trunkmain	Sewer Main	1987	34.4	225		$8,516	100%	24.8%	$2,114	Trunkmain, Post 1986 asset
Goulburn	IPW-0004237	Trunkmain	Sewer Main	1987	24.3	225		$6,037	100%	24.8%	$1,498	Trunkmain, Post 1986 asset
Goulburn	IPW-0004238	Trunkmain	Sewer Main	1987	59.8	225		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004239	Trunkmain	Sewer Main	1987	33.9	225		$8,408	100%	24.8%	$2,087	Trunkmain, Post 1986 asset
Goulburn	IPW-0004240	Trunkmain	Sewer Main	1987	58.0	225		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0004241	Trunkmain	Sewer Main	1987	45.4	225		$10,780	100%	24.8%	$2,676	Trunkmain, Post 1986 asset
Goulburn	IPW-0004258	Trunkmain	Sewer Main	1987	26.0	225		$6,468	100%	24.8%	$1,605	Trunkmain, Post 1986 asset
Goulburn	IPW-0004259	Trunkmain	Sewer Main	1987	35.1	225		$8,732	100%	24.8%	$2,167	Trunkmain, Post 1986 asset
Goulburn	IPW-0004260	Trunkmain	Sewer Main	1987	33.6	225		$8,301	100%	24.8%	$2,060	Trunkmain, Post 1986 asset
Goulburn	IPW-0004261	Trunkmain	Sewer Main	1987	48.4	225		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004276	Trunkmain	Sewer Main	1987	67.8	225		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0004277	Trunkmain	Sewer Main	1987	47.5	225		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004278	Trunkmain	Sewer Main	1987	9.3	225		$2,264	100%	24.8%	$562	Trunkmain, Post 1986 asset
Goulburn	IPW-0004279	Trunkmain	Sewer Main	1987	76.4	225		$19,404	100%	24.8%	$4,816	Trunkmain, Post 1986 asset
Goulburn	IPW-0004280	Trunkmain	Sewer Main	1987	16.6	225		$4,096	100%	24.8%	$1,017	Trunkmain, Post 1986 asset
Goulburn	IWV0000013	Pump Station	Pipes, valves and fittings	1987				$8,556	100%	24.8%	$2,124	Pump Station, post 1986 asset
Goulburn	IVE0000004	Pump Station	May St Wet Well	1987				$67,379	100%	24.8%	$16,724	Pump Station, post 1986 asset
Goulburn	WEL0000015	Pump Station	May St Switchboard	1987				$47,058	100%	24.8%	$11,680	Pump Station, post 1986 asset
Goulburn	ACC0000121	Pump Station	May St PS Pipework	1987				$24,599	100%	24.8%	$6,106	Pump Station, post 1986 asset
Goulburn	IPW-0001296	Trunkmain	Sewer Main	1988	32.0	225		$7,977	100%	24.8%	$1,980	Trunkmain, Post 1986 asset
Goulburn	IPW-0001297	Trunkmain	Sewer Main	1988	40.8	225		$10,133	100%	24.8%	$2,515	Trunkmain, Post 1986 asset
Goulburn	IPW-0003489	Trunkmain	Sewer Main	1988	69.7	225		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0003490	Trunkmain	Sewer Main	1988	36.7	225		$9,055	100%	24.8%	$2,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003497	Trunkmain	Sewer Main	1988	42.5	225		$10,564	100%	24.8%	$2,622	Trunkmain, Post 1986 asset
Goulburn	IPW-0003505	Trunkmain	Sewer Main	1988	53.2	300		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003506	Trunkmain	Sewer Main	1988	48.4	225		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0003507	Trunkmain	Sewer Main	1988	94.9	225		$23,716	100%	24.8%	$5,887	Trunkmain, Post 1986 asset
Goulburn	IPW-0003508	Trunkmain	Sewer Main	1988	70.0	225		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0004151	Trunkmain	Sewer Main	1988	116.1	525		$66,836	100%	24.8%	$16,589	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001211	Trunkmain	Sewer Main	1989	61.8	375		$21,560	44%	24.8%	$2,376	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001212	Trunkmain	Sewer Main	1989	37.4	375		$12,936	44%	24.8%	$1,426	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001213	Trunkmain	Sewer Main	1989	77.6	375		$28,028	44%	24.8%	$3,089	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001214	Trunkmain	Sewer Main	1989	46.0	375		$16,170	44%	24.8%	$1,782	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001215	Trunkmain	Sewer Main	1989	27.1	375		$9,702	44%	24.8%	$1,069	Trunkmain, Post 1986 asset
Goulburn	IPW-0001237	Trunkmain	Sewer Main	1989	11.6	225		$2,911	100%	24.8%	$722	Trunkmain, Post 1986 asset
Goulburn	IPW-0001238	Trunkmain	Sewer Main	1989	57.6	225		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0001239	Trunkmain	Sewer Main	1989	27.6	225		$6,791	100%	24.8%	$1,686	Trunkmain, Post 1986 asset
Goulburn	IPW-0001240	Trunkmain	Sewer Main	1989	60.9	225		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0001241	Trunkmain	Sewer Main	1989	41.7	225		$10,349	100%	24.8%	$2,569	Trunkmain, Post 1986 asset
Goulburn	IPW-0001242	Trunkmain	Sewer Main	1989	58.6	225		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001270	Trunkmain	Sewer Main	1989	39.1	375		$14,014	44%	24.8%	$1,544	Trunkmain, Post 1986 asset
Goulburn	IPW-0001298	Trunkmain	Sewer Main	1989	63.1	225		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0001299	Trunkmain	Sewer Main	1989	46.6	225		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0001300	Trunkmain	Sewer Main	1989	58.5	225		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0001301	Trunkmain	Sewer Main	1989	18.1	225		$4,528	100%	24.8%	$1,124	Trunkmain, Post 1986 asset
Goulburn	IPW-0001302	Trunkmain	Sewer Main	1989	45.5	225		$10,780	100%	24.8%	$2,676	Trunkmain, Post 1986 asset
Goulburn	IPW-0001303	Trunkmain	Sewer Main	1989	26.2	225		$6,468	100%	24.8%	$1,605	Trunkmain, Post 1986 asset
Goulburn	IPW-0001304	Trunkmain	Sewer Main	1989	45.4	225		$10,780	100%	24.8%	$2,676	Trunkmain, Post 1986 asset
Goulburn	IPW-0001305	Trunkmain	Sewer Main	1989	63.8	225		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0001306	Trunkmain	Sewer Main	1989	39.7	225		$9,810	100%	24.8%	$2,435	Trunkmain, Post 1986 asset
Goulburn	IPW-0001308	Trunkmain	Sewer Main	1989	63.1	225		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0001309	Trunkmain	Sewer Main	1989	81.8	225		$20,482	100%	24.8%	$5,084	Trunkmain, Post 1986 asset
Goulburn	IPW-0001310	Trunkmain	Sewer Main	1989	15.1	225		$3,773	100%	24.8%	$936	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001311	Trunkmain	Sewer Main	1989	56.8	375		$20,482	44%	24.8%	$2,257	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001312	Trunkmain	Sewer Main	1989	19.1	375		$6,791	44%	24.8%	$748	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IPW-0001313	Trunkmain	Sewer Main	1989	56.2	375		$20,482	44%	24.8%	$2,257	Trunkmain, Post 1986 asset
Goulburn	IPW-0001325	Trunkmain	Sewer Main	1989	50.4	225		$12,936	100%	24.8%	$3,211	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001384	Trunkmain	Sewer Main	1989	103.4	375		$36,652	44%	24.8%	$4,039	Trunkmain, Post 1986 asset
Goulburn	IPW-0002469	Trunkmain	Sewer Main	1989	13.8	525		$7,869	100%	24.8%	$1,953	Trunkmain, Post 1986 asset
Goulburn	IPW-0002507	Trunkmain	Sewer Main	1989	182.2	675		$161,700	100%	24.8%	$40,136	Trunkmain, Post 1986 asset
Goulburn	IPW-0002507	Trunkmain	Sewer Main	1989	182.2	675		$161,700	100%	24.8%	$40,136	Trunkmain, Post 1986 asset
Goulburn	IPW-0002534	Trunkmain	Sewer Main	1989	14.4	750		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0002535	Trunkmain	Sewer Main	1989	8.4	525		$4,851	100%	24.8%	$1,204	Trunkmain, Post 1986 asset
Goulburn	IPW-0003491	Trunkmain	Sewer Main	1989	124.6	225		$31,262	100%	24.8%	$7,760	Trunkmain, Post 1986 asset
Goulburn	IPW-0003492	Trunkmain	Sewer Main	1989	61.4	225		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0003493	Trunkmain	Sewer Main	1989	70.8	225		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0003494	Trunkmain	Sewer Main	1989	68.0	225		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0003495	Trunkmain	Sewer Main	1989	81.9	225		$20,482	100%	24.8%	$5,084	Trunkmain, Post 1986 asset
Goulburn	IPW-0003496	Trunkmain	Sewer Main	1989	28.4	225		$7,007	100%	24.8%	$1,739	Trunkmain, Post 1986 asset
Goulburn	IPW-0003511	Trunkmain	Sewer Main	1989	75.7	225		$18,326	100%	24.8%	$4,549	Trunkmain, Post 1986 asset
Goulburn	IPW-0003512	Trunkmain	Sewer Main	1989	10.8	225		$2,695	100%	24.8%	$669	Trunkmain, Post 1986 asset
Goulburn	IPW-0002026	Trunkmain	Sewer Main	1990	57.8	225		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0002578	Trunkmain	Sewer Main	1990	63.9	225		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0004174	Trunkmain	Sewer Main	1990	24.6	300		$7,546	100%	24.8%	$1,873	Trunkmain, Post 1986 asset
Goulburn	IPW-0004175	Trunkmain	Sewer Main	1990	33.3	300		$10,241	100%	24.8%	$2,542	Trunkmain, Post 1986 asset
Goulburn	IPW-0004184	Trunkmain	Sewer Main	1990	16.1	300		$4,959	100%	24.8%	$1,231	Trunkmain, Post 1986 asset
Goulburn	IPW-0004185	Trunkmain	Sewer Main	1990	8.2	300		$2,479	100%	24.8%	$615	Trunkmain, Post 1986 asset
Goulburn	IPW-0004186	Trunkmain	Sewer Main	1990	38.7	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004187	Trunkmain	Sewer Main	1990	72.0	300		$22,638	100%	24.8%	$5,619	Trunkmain, Post 1986 asset
Goulburn	IPW-0004188	Trunkmain	Sewer Main	1990	54.5	300		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0004223	Trunkmain	Sewer Main	1990	42.1	300		$12,936	100%	24.8%	$3,211	Trunkmain, Post 1986 asset
Goulburn	IPW-0004224	Trunkmain	Sewer Main	1990	15.5	300		$4,743	100%	24.8%	$1,177	Trunkmain, Post 1986 asset
Goulburn	IPW-0004225	Trunkmain	Sewer Main	1990	78.6	300		$23,716	100%	24.8%	$5,887	Trunkmain, Post 1986 asset
Goulburn	IPW-0004333	Trunkmain	Sewer Main	1990	95.1	300		$29,106	100%	24.8%	$7,224	Trunkmain, Post 1986 asset
Goulburn	IPW-0004334	Trunkmain	Sewer Main	1990	114.5	300		$35,574	100%	24.8%	$8,830	Trunkmain, Post 1986 asset
Goulburn	IPW-0004335	Trunkmain	Sewer Main	1990	67.2	300		$20,482	100%	24.8%	$5,084	Trunkmain, Post 1986 asset
Goulburn	IPW-0004336	Trunkmain	Sewer Main	1990	58.6	300		$18,326	100%	24.8%	$4,549	Trunkmain, Post 1986 asset
Goulburn	IPW-0004337	Trunkmain	Sewer Main	1990	90.6	300		$28,028	100%	24.8%	$6,957	Trunkmain, Post 1986 asset
Goulburn	IPW-0004338	Trunkmain	Sewer Main	1990	43.6	300		$12,936	100%	24.8%	$3,211	Trunkmain, Post 1986 asset
Goulburn	IPW-0004339	Trunkmain	Sewer Main	1990	72.5	300		$22,638	100%	24.8%	$5,619	Trunkmain, Post 1986 asset
Goulburn	IPW-0004340	Trunkmain	Sewer Main	1990	48.0	300		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004341	Trunkmain	Sewer Main	1990	52.5	300		$16,170	100%	24.8%	$4,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0004342	Trunkmain	Sewer Main	1990	99.6	300		$30,184	100%	24.8%	$7,492	Trunkmain, Post 1986 asset
Goulburn	IPW-0004343	Trunkmain	Sewer Main	1990	65.0	300		$20,482	100%	24.8%	$5,084	Trunkmain, Post 1986 asset
Goulburn	IPW-0004344	Trunkmain	Sewer Main	1990	77.3	300		$23,716	100%	24.8%	$5,887	Trunkmain, Post 1986 asset
Goulburn	IPW-0004345	Trunkmain	Sewer Main	1990	88.6	300		$26,950	100%	24.8%	$6,689	Trunkmain, Post 1986 asset
Goulburn	IPW-0004346	Trunkmain	Sewer Main	1990	57.3	300		$17,248	100%	24.8%	$4,281	Trunkmain, Post 1986 asset
Goulburn	IPW-0004347	Trunkmain	Sewer Main	1990	48.0	300		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004348	Trunkmain	Sewer Main	1990	39.9	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004349	Trunkmain	Sewer Main	1990	49.2	300		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004350	Trunkmain	Sewer Main	1990	41.3	300		$12,936	100%	24.8%	$3,211	Trunkmain, Post 1986 asset
Goulburn	IPW-0004941	Trunkmain	Sewer Main	1990	7.1	450		$3,126	100%	24.8%	$776	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IDD0000014	Treatment	Valve Chamber	1990				$160,426	44%	24.8%	$17,680	Treatment, post 1986 asset
Goulburn	ACC0000146	Pump Station	The Avenue Wet Well	1990				$81,282	100%	24.8%	$20,175	Pump Station, post 1986 asset
Goulburn	ACC0000147	Pump Station	The Avenue Switchboard	1990				$47,058	100%	24.8%	$11,680	Pump Station, post 1986 asset
Goulburn	WEL0000032	Pump Station	The Avenue Pumps	1990				$68,448	100%	24.8%	$16,990	Pump Station, post 1986 asset
Goulburn, Marys Mount	IWP0000069	Treatment	Sludge Dams	1990				$609,618	44%	24.8%	$67,183	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000061	Treatment	Sheds 2 3	1990				$21,390	44%	24.8%	$2,357	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000082	Treatment	Shed 1	1990				$18,182	44%	24.8%	$2,004	Treatment, post 1986 asset
Goulburn	WEL0000017	Pump Station	Pipes, valves and fittings	1990				$16,043	100%	24.8%	$3,982	Pump Station, post 1986 asset
Goulburn, Marys Mount	ISW0000023	Treatment	Maturation Pump Station	1990				$716,569	44%	24.8%	$78,970	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000058	Treatment	Maturation Ponds Baffles	1990				$57,753	44%	24.8%	$6,365	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000060	Treatment	Maturation Ponds	1990				$1,176,456	44%	24.8%	$129,652	Treatment, post 1986 asset
Goulburn, Marys Mount	IDD0000010	Treatment	Maturation Pond Switchboard	1990				$128,341	44%	24.8%	$14,144	Treatment, post 1986 asset
Goulburn, Marys Mount	IGG0000010	Treatment	Maturation Pond Pump 2	1990				$69,518	44%	24.8%	$7,661	Treatment, post 1986 asset
Goulburn, Marys Mount	ILR0000001	Treatment	Maturation Pond Pump 1	1990				$69,518	44%	24.8%	$7,661	Treatment, post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	ACC0000124	Treatment	Maturation Pond Plinth	1990				$16,043	44%	24.8%	$1,768	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000084	Treatment	Maturation Pond 2	1990				$1,016,030	44%	24.8%	$111,972	Treatment, post 1986 asset
Goulburn	ACC0000123	Pump Station	Long St Wet Well	1990				$68,448	100%	24.8%	$16,990	Pump Station, post 1986 asset
Goulburn	ACC0000082	Pump Station	Long St Switchboard	1990				$47,058	100%	24.8%	$11,680	Pump Station, post 1986 asset
Goulburn	ACC0000127	Pump Station	Long St Pumps	1990				$6,952	100%	24.8%	$1,726	Pump Station, post 1986 asset
Goulburn	IRG0000004	Pump Station	Long St PS Pipework	1990				$26,738	100%	24.8%	$6,637	Pump Station, post 1986 asset
Goulburn, Marys Mount	WEL0000016	Treatment	Internal Road	1990				$470,582	44%	24.8%	$51,861	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000022	Treatment	Humus Tank 4	1990				$491,973	44%	24.8%	$54,218	Treatment, post 1986 asset
Goulburn	IWP0000057	Pump Station	Grafton St Extraction Fan	1990				$12,834	100%	24.8%	$3,186	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPW0000059	Treatment	Farm Pipework	1990				$2,139,011	44%	24.8%	$235,731	Treatment, post 1986 asset
Goulburn, Marys Mount	ITC0000018	Treatment	Farm Perimeter Fencing	1990				$320,852	44%	24.8%	$35,360	Treatment, post 1986 asset
Goulburn	WEL0000014	Pump Station	Bradley St Flood Pump	1990				$69,518	100%	24.8%	$17,255	Pump Station, post 1986 asset
Goulburn	IPW-0001180	Trunkmain	Sewer Main	1991	37.7	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0001318	Trunkmain	Sewer Main	1991	34.9	300		$10,672	100%	24.8%	$2,649	Trunkmain, Post 1986 asset
Goulburn	IPW-0002344	Trunkmain	Sewer Main	1991	6.1	300		$1,833	100%	24.8%	$455	Trunkmain, Post 1986 asset
Goulburn	IPW-0002345	Trunkmain	Sewer Main	1991	15.6	300		$4,743	100%	24.8%	$1,177	Trunkmain, Post 1986 asset
Goulburn	IPW-0002352	Trunkmain	Sewer Main	1991	20.7	300		$6,360	100%	24.8%	$1,579	Trunkmain, Post 1986 asset
Goulburn	IPW-0002353	Trunkmain	Sewer Main	1991	18.8	300		$5,821	100%	24.8%	$1,445	Trunkmain, Post 1986 asset
Goulburn	IPW-0002421	Trunkmain	Sewer Main	1991	38.8	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004157	Trunkmain	Sewer Main	1991	6.2	300		$1,940	100%	24.8%	$482	Trunkmain, Post 1986 asset
Goulburn	IPW-0004158	Trunkmain	Sewer Main	1991	36.9	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0004163	Trunkmain	Sewer Main	1991	35.6	300		$10,780	100%	24.8%	$2,676	Trunkmain, Post 1986 asset
Goulburn	IPW-0004164	Trunkmain	Sewer Main	1991	45.2	300		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0004180	Trunkmain	Sewer Main	1991	60.9	300		$18,326	100%	24.8%	$4,549	Trunkmain, Post 1986 asset
Goulburn	IPW-0004189	Trunkmain	Sewer Main	1991	26.9	300		$8,301	100%	24.8%	$2,060	Trunkmain, Post 1986 asset
Goulburn	IPW-0004190	Trunkmain	Sewer Main	1991	50.5	300		$15,092	100%	24.8%	$3,746	Trunkmain, Post 1986 asset
Goulburn	IPW-0004191	Trunkmain	Sewer Main	1991	28.3	300		$8,732	100%	24.8%	$2,167	Trunkmain, Post 1986 asset
Goulburn	IPW-0004192	Trunkmain	Sewer Main	1991	64.2	300		$19,404	100%	24.8%	$4,816	Trunkmain, Post 1986 asset
Goulburn	IPW-0004192	Trunkmain	Sewer Main	1991	1.9	300		$582	100%	24.8%	$144	Trunkmain, Post 1986 asset
Goulburn	IPW-0004196	Trunkmain	Sewer Main	1991	44.9	300		$14,014	100%	24.8%	$3,478	Trunkmain, Post 1986 asset
Goulburn	IPW-0004197	Trunkmain	Sewer Main	1991	40.0	300		$11,858	100%	24.8%	$2,943	Trunkmain, Post 1986 asset
Goulburn	IPW-0005949	Trunkmain	Sewer Main	1991	5.8	300		$1,725	100%	24.8%	$428	Trunkmain, Post 1986 asset
Goulburn	IPW-0004195	Trunkmain	Sewer Main	1992	22.3	225		$5,498	100%	24.8%	$1,365	Trunkmain, Post 1986 asset
Goulburn	BSS0000016	Pump Station	May St Pumps	1992				$7,487	100%	24.8%	$1,858	Pump Station, post 1986 asset
Goulburn	IPW-0002453	Trunkmain	Sewer Main	1994	95.0	300		$29,106	100%	24.8%	$7,224	Trunkmain, Post 1986 asset
Goulburn	IPW-0002454	Trunkmain	Sewer Main	1994	89.3	300		$26,950	100%	24.8%	$6,689	Trunkmain, Post 1986 asset
Goulburn	IPW-0002455	Trunkmain	Sewer Main	1994	80.3	300		$24,794	100%	24.8%	$6,154	Trunkmain, Post 1986 asset
Goulburn	IPW-0002456	Trunkmain	Sewer Main	1994	89.7	300		$28,028	100%	24.8%	$6,957	Trunkmain, Post 1986 asset
Goulburn	IPW-0002457	Trunkmain	Sewer Main	1994	75.7	300		$23,716	100%	24.8%	$5,887	Trunkmain, Post 1986 asset
Goulburn	IPW-0002458	Trunkmain	Sewer Main	1994	101.0	300		$31,262	100%	24.8%	$7,760	Trunkmain, Post 1986 asset
Goulburn	IPW-0002459	Trunkmain	Sewer Main	1994	95.6	300		$29,106	100%	24.8%	$7,224	Trunkmain, Post 1986 asset
Goulburn	IPW-0002502	Trunkmain	Sewer Main	1994	43.8	450		$19,404	100%	24.8%	$4,816	Trunkmain, Post 1986 asset
Goulburn	ACC0000037	Treatment	STP Stormflow Pond Inlet	1994				$48,128	100%	24.8%	$11,946	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000040	Treatment	Stormflow Pond	1994				$4,812,775	44%	12.4%	$265,197	Treatment, post 1986 asset; GMC estimates 50% growth related
Goulburn	ACC0000041	Pump Station	Recreation Area Switchboard	1994				$47,058	100%	24.8%	$11,680	Pump Station, post 1986 asset
Goulburn	IPW-0003130	Trunkmain	Sewer Main	1995	40.9	225		$10,133	100%	24.8%	$2,515	Trunkmain, Post 1986 asset
Goulburn	IPW-0003131	Trunkmain	Sewer Main	1995	33.2	225		$8,193	100%	24.8%	$2,034	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IRO0000023	Treatment	Shed 5	1995				$69,518	44%	24.8%	$7,661	Treatment, post 1986 asset
Goulburn	IPW-0003607	Trunkmain	Sewer Main	1996	39.4	225		$9,810	100%	100.0%	$9,810	Trunkmain, Post 1986 asset
Goulburn	IPW-0003608	Trunkmain	Sewer Main	1996	34.1	225		$8,408	100%	100.0%	$8,408	Trunkmain, Post 1986 asset
Goulburn	IPW-0003609	Trunkmain	Sewer Main	1996	21.8	225		$5,390	100%	100.0%	$5,390	Trunkmain, Post 1986 asset
Goulburn	IPW-0003610	Trunkmain	Sewer Main	1996	66.5	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003611	Trunkmain	Sewer Main	1996	75.5	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0003612	Trunkmain	Sewer Main	1996	73.5	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0006150	Trunkmain	Sewer Main	1996	79.2	200		$31,262	100%	100.0%	$31,262	Trunkmain, Post 1986 asset
Goulburn	ILP0000001	Pump Station	Wollondilly Gardens Wet Well	1996				$65,240	100%	100.0%	$65,240	Pump Station, post 1986 asset
Goulburn	IPS0000008	Pump Station	Wollondilly Gardens Switchboard	1996				$47,058	100%	100.0%	$47,058	Pump Station, post 1986 asset
Goulburn	IDD0000013	Pump Station	Wollondilly Gardens Pumps	1996				$18,182	100%	100.0%	$18,182	Pump Station, post 1986 asset
Goulburn	IWP0000054	Pump Station	Wollondilly Gardens PS Pipework	1996				$25,668	100%	100.0%	$25,668	Pump Station, post 1986 asset
Goulburn	WEL0000018	Pump Station	Wollondilly Gardens Access Road	1996				$6,417	100%	100.0%	$6,417	Pump Station, post 1986 asset
Goulburn	VSD0000002	Pump Station	Rec Area PS Pipework	1996				$32,085	100%	100.0%	$32,085	Pump Station, post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	ISW0000024	Pump Station	Pipes, valves and fittings	1996				$12,834	100%	100.0%	$12,834	Pump Station, post 1986 asset
Goulburn	ACC0000154	Pump Station	Pipes, valves and fittings	1996				$18,182	100%	100.0%	$18,182	Pump Station, post 1986 asset
Goulburn	IPW-0002179	Trunkmain	Sewer Main	1998	1413.0	225		$668,360	100%	100.0%	$668,360	Trunkmain, Post 1986 asset
Goulburn	IPW-0002181	Trunkmain	Sewer Main	1998	72.1	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0002182	Trunkmain	Sewer Main	1998	61.1	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0002183	Trunkmain	Sewer Main	1998	59.3	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0002184	Trunkmain	Sewer Main	1998	77.3	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0002185	Trunkmain	Sewer Main	1998	16.0	225		$3,989	100%	100.0%	$3,989	Trunkmain, Post 1986 asset
Goulburn	IPW-0002186	Trunkmain	Sewer Main	1998	20.5	225		$5,067	100%	100.0%	$5,067	Trunkmain, Post 1986 asset
Goulburn	IPW-0002187	Trunkmain	Sewer Main	1998	10.2	225		$2,479	100%	100.0%	$2,479	Trunkmain, Post 1986 asset
Goulburn	IPW-0002188	Trunkmain	Sewer Main	1998	8.7	225		$2,156	100%	100.0%	$2,156	Trunkmain, Post 1986 asset
Goulburn	IPW-0002189	Trunkmain	Sewer Main	1998	22.7	225		$5,606	100%	100.0%	$5,606	Trunkmain, Post 1986 asset
Goulburn	IPW-0002190	Trunkmain	Sewer Main	1998	73.6	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0002191	Trunkmain	Sewer Main	1998	76.0	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0002192	Trunkmain	Sewer Main	1998	10.2	225		$2,479	100%	100.0%	$2,479	Trunkmain, Post 1986 asset
Goulburn	IPW-0002204	Trunkmain	Sewer Main	1998	5.0	225		$1,186	100%	100.0%	$1,186	Trunkmain, Post 1986 asset
Goulburn	IPW-0002575	Trunkmain	Sewer Main	1998	11.4	225		$2,803	100%	100.0%	$2,803	Trunkmain, Post 1986 asset
Goulburn	IPW-0002575	Trunkmain	Sewer Main	1998	11.4	225		$2,803	100%	100.0%	$2,803	Trunkmain, Post 1986 asset
Goulburn	IPW-0002576	Trunkmain	Sewer Main	1998	36.4	225		$9,055	100%	100.0%	$9,055	Trunkmain, Post 1986 asset
Goulburn	IPW-0002577	Trunkmain	Sewer Main	1998	14.9	225		$3,665	100%	100.0%	$3,665	Trunkmain, Post 1986 asset
Goulburn	ACC0000155	Pump Station	Telemetry	1998				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	ACC0000126	Pump Station	Fencing and Roadway	1998				$25,668	100%	100.0%	$25,668	Pump Station, post 1986 asset
Goulburn	ACC0000090	Pump Station	Copford Rd Switchboard	1998				$47,058	100%	100.0%	$47,058	Pump Station, post 1986 asset
Goulburn	BSS0000013	Pump Station	Copford Rd Access Road	1998				$3,422	100%	100.0%	$3,422	Pump Station, post 1986 asset
Goulburn, Marys Mount	ICO0000001	Treatment	Balance Tank 2	1998				$192,511	44%	100.0%	$85,475	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000007	Treatment	Balance Tank 1	1998				$695,179	44%	100.0%	$308,659	Treatment, post 1986 asset
Goulburn	IPW-0000255	Trunkmain	Sewer Main	1999	26.7	225		$6,576	100%	100.0%	$6,576	Trunkmain, Post 1986 asset
Goulburn	IPW-0000256	Trunkmain	Sewer Main	1999	34.7	225		$8,624	100%	100.0%	$8,624	Trunkmain, Post 1986 asset
Goulburn	IPW-0000257	Trunkmain	Sewer Main	1999	25.0	225		$6,145	100%	100.0%	$6,145	Trunkmain, Post 1986 asset
Goulburn	IPW-0000258	Trunkmain	Sewer Main	1999	54.0	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IOP0000001	Treatment	Travelling Irrigator	1999				$35,294	44%	100.0%	$15,670	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000348	Treatment	Step Screen Electrical works	1999				$26,738	44%	100.0%	$11,872	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000347	Pump Station	Kenmore Bridge Switchboard	1999				$47,058	44%	100.0%	$20,894	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000125	Pump Station	Kenmore Bridge Generator Building	1999				$45,989	44%	100.0%	$20,419	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000086	Pump Station	Kenmore Bridge Extraction Fan	1999				$37,433	44%	100.0%	$16,620	Pump Station, post 1986 asset
Goulburn, Marys Mount	WEL0000020	Treatment	Inlet Works Step Screen	1999				$128,341	44%	100.0%	$56,983	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000026	Treatment	Inlet works mesh floor	1999				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000061	Treatment	Humus Tank Pumps	1999				$149,731	44%	100.0%	$66,480	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000063	Treatment	Humus Scrapers	1999				$417,107	44%	100.0%	$185,196	Treatment, post 1986 asset
Goulburn	IGG0000007	Pump Station	Copford Road Extraction Fan	1999				$37,433	100%	100.0%	$37,433	Pump Station, post 1986 asset
Goulburn	IPW-0005574	Trunkmain	Sewer Main	2000	235.9	200		$56,056	100%	100.0%	$56,056	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPS0000001	Treatment	Trickling filter media	2000				$139,036	44%	100.0%	$61,732	Treatment, post 1986 asset
Goulburn	IPS0000003	Pump Station	Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IWM0000047	Pump Station	Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IWM0000046	Pump Station	Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IWM0000045	Pump Station	Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IWM0000044	Pump Station	Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000614	Treatment	Humus Spray Wash	2000				$21,390	44%	100.0%	$9,497	Treatment, post 1986 asset
Goulburn	ACC0000520	Pump Station	Bradley St Telemetry	2000				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	ACC0000519	Pump Station	Bradley St Switchboard	2000				$96,256	100%	100.0%	$96,256	Pump Station, post 1986 asset
Goulburn	ILA0000005	Pump Station	Bradley St Generator	2000				$90,908	100%	100.0%	$90,908	Pump Station, post 1986 asset
Goulburn	ILA0000006	Pump Station	Bradley St Gen Building	2000				$57,753	100%	100.0%	$57,753	Pump Station, post 1986 asset
Goulburn, Marys Mount	IOP0000002	Treatment	Assorted Hydrants - Farm	2000				$67,379	44%	100.0%	$29,916	Treatment, post 1986 asset
Goulburn	IPW-0002047	Trunkmain	Sewer Main	2001	71.1	375		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0002048	Trunkmain	Sewer Main	2001	85.7	375		$30,184	100%	100.0%	$30,184	Trunkmain, Post 1986 asset
Goulburn	IPW-0002049	Trunkmain	Sewer Main	2001	80.5	375		$29,106	100%	100.0%	$29,106	Trunkmain, Post 1986 asset
Goulburn	IPW-0002050	Trunkmain	Sewer Main	2001	77.8	375		$28,028	100%	100.0%	$28,028	Trunkmain, Post 1986 asset
Goulburn	IPW-0002051	Trunkmain	Sewer Main	2001	50.7	375		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0002056	Trunkmain	Sewer Main	2001	40.5	375		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0002057	Trunkmain	Sewer Main	2001	80.4	375		$29,106	100%	100.0%	$29,106	Trunkmain, Post 1986 asset
Goulburn	IPW-0003077	Trunkmain	Sewer Main	2001	53.1	300		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	IPW-0003105	Trunkmain	Sewer Main	2001	69.0	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003463	Trunkmain	Sewer Main	2001	84.1	225		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn	IPW-0003464	Trunkmain	Sewer Main	2001	45.7	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003465	Trunkmain	Sewer Main	2001	73.8	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0003466	Trunkmain	Sewer Main	2001	76.2	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003467	Trunkmain	Sewer Main	2001	78.9	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003468	Trunkmain	Sewer Main	2001	55.1	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW0000029	Treatment	Wet Weather Storage Spillway	2001				$26,738	44%	100.0%	$11,872	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000033	Treatment	Wet Weather Storage	2001				$2,780,714	44%	100.0%	$1,234,637	Treatment, post 1986 asset
Goulburn	IPW0000034	Pump Station	The Avenue Generator Building	2001				$45,989	100%	100.0%	$45,989	Pump Station, post 1986 asset
Goulburn	IPW0000035	Pump Station	The Avenue Generator	2001				$69,518	100%	100.0%	$69,518	Pump Station, post 1986 asset
Goulburn	IPS0000020	Pump Station	The Avenue Access Road	2001				$10,695	100%	100.0%	$10,695	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPS0000019	Pump Station	Telemetry	2001				$23,529	44%	100.0%	$10,447	Pump Station, post 1986 asset
Goulburn	IPS0000016	Pump Station	Telemetry	2001				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IPS0000017	Pump Station	Telemetry	2001				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPW0000037	Treatment	Kenmore Pivot Irrigator	2001				$98,395	44%	100.0%	$43,687	Treatment, post 1986 asset
Goulburn	IPS0000018	Pump Station	Fencing and Roadway	2001				$128	100%	100.0%	$128	Pump Station, post 1986 asset
Goulburn	IPS0000013	Pump Station	Copford Rd Generator	2001				$69,518	100%	100.0%	$69,518	Pump Station, post 1986 asset
Goulburn	IPS0000015	Pump Station	Copford Rd Gen Building	2001				$45,989	100%	100.0%	$45,989	Pump Station, post 1986 asset
Goulburn	IPS0000012	Pump Station	Avoca St Switchboard	2001				$71,657	100%	100.0%	$71,657	Pump Station, post 1986 asset
Goulburn	IPS0000009	Pump Station	Avoca St Generator Building	2001				$45,989	100%	100.0%	$45,989	Pump Station, post 1986 asset
Goulburn	IPS0000014	Pump Station	Avoca St Generator	2001				$69,518	100%	100.0%	$69,518	Pump Station, post 1986 asset
Goulburn	ACC0000096	Pump Station	Telemetry	2002				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	ACC0000095	Pump Station	Recreation Area Generator	2002				$35,294	100%	100.0%	$35,294	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPW0000031	Pump Station	Fencing and Roadway	2002				$11,765	44%	100.0%	$5,223	Pump Station, post 1986 asset
Goulburn	IPW-0002313	Trunkmain	Sewer Main	2003	65.3	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0002314	Trunkmain	Sewer Main	2003	38.5	225		$9,594	100%	100.0%	$9,594	Trunkmain, Post 1986 asset
Goulburn	IPW-0003522	Trunkmain	Sewer Main	2003	35.6	225		$8,840	100%	100.0%	$8,840	Trunkmain, Post 1986 asset
Goulburn	IPW-0003523	Trunkmain	Sewer Main	2003	50.4	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003524	Trunkmain	Sewer Main	2003	63.2	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003525	Trunkmain	Sewer Main	2003	51.4	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	STS0000002	Treatment	Wind Monitoring Unit	2003				$3,743	44%	100.0%	$1,662	Treatment, post 1986 asset
Goulburn	BLD0000054	Pump Station	Telemetry	2003				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn, Marys Mount	IWM0000054	Treatment	Telemetry	2003				$19,251	44%	100.0%	$8,547	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000087	Treatment	Telemetry	2003				$23,529	44%	100.0%	$10,447	Treatment, post 1986 asset
Goulburn, Marys Mount	BSS0000009	Treatment	Shed 4	2003				$14,973	44%	100.0%	$6,648	Treatment, post 1986 asset
Goulburn, Marys Mount	BSS0000007	Treatment	Safety Shower	2003				$5,348	44%	100.0%	$2,374	Treatment, post 1986 asset
Goulburn	ACC0000099	Pump Station	North Goulburn Switchboard	2003				$59,892	100%	100.0%	$59,892	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000176	Treatment	No 2 Farm 6 Strand Pivot Irrigator	2003				$149,731	44%	100.0%	$66,480	Treatment, post 1986 asset
Goulburn, Marys Mount	IPS0000022	Treatment	No 2 Farm 5 Strand Pivot Irrigator	2003				$128,341	44%	100.0%	$56,983	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000101	Treatment	MCC Panel	2003				$69,518	44%	100.0%	$30,866	Treatment, post 1986 asset
Goulburn, Marys Mount	ICP0000002	Treatment	Internal Road	2003				$72,726	44%	100.0%	$32,291	Treatment, post 1986 asset
Goulburn, Marys Mount	BLD0000052	Treatment	Fence Energiser	2003				$535	44%	100.0%	$237	Treatment, post 1986 asset
Goulburn	ISW0000027	Pump Station	Bradley St 2 Pumps	2003				$34,224	100%	100.0%	$34,224	Pump Station, post 1986 asset
Goulburn, Marys Mount	IWM0000052	Treatment	Alum tanks	2003				$117,646	44%	100.0%	$52,235	Treatment, post 1986 asset
Goulburn, Marys Mount	BSW0000002	Treatment	Alum Switchboard	2003				$66,309	44%	100.0%	$29,441	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000051	Treatment	Alum pumps	2003				$9,091	44%	100.0%	$4,036	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000050	Treatment	Alum Pumps	2003				$9,091	44%	100.0%	$4,036	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000049	Treatment	Alum bund	2003				$79,143	44%	100.0%	$35,140	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000036	Treatment	Septic Collection Tank	2004				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn	ISW0000038	Pump Station	North Goulburn Generator	2004				$35,294	100%	100.0%	$35,294	Pump Station, post 1986 asset
Goulburn	ILA0000007	Pump Station	Grafton St Switchboard	2004				$47,058	100%	100.0%	$47,058	Pump Station, post 1986 asset
Goulburn, Marys Mount	IVC0000016	Treatment	Flygt Mixer	2004				$16,043	44%	100.0%	$7,123	Treatment, post 1986 asset
Goulburn, Marys Mount	IST0000002	Pump Station	Brewer Street Generator	2004				$69,518	44%	100.0%	$30,866	Pump Station, post 1986 asset
Goulburn, Marys Mount	TEL0000055	Treatment	Trickling filter arms	2005				$256,681	44%	100.0%	$113,967	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000034	Treatment	Travelling Irrigator	2005				$139,036	44%	100.0%	$61,732	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000033	Pump Station	Kenmore Bridge Storage Well	2005				$74,865	44%	100.0%	$33,240	Pump Station, post 1986 asset
Goulburn	ISW0000032	Pump Station	BP West Generator Marulan	2005				$32,085	100%	100.0%	$32,085	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPW-0001578	Trunkmain	Sewer Main	2006	118.9	375		$42,042	44%	100.0%	$18,667	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001579	Trunkmain	Sewer Main	2006	122.4	375		$43,120	44%	100.0%	$19,145	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001580	Trunkmain	Sewer Main	2006	55.7	375		$19,404	44%	100.0%	$8,615	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IPW-0001581	Trunkmain	Sewer Main	2006	57.6	375		$20,482	44%	100.0%	$9,094	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001582	Trunkmain	Sewer Main	2006	171.6	375		$61,446	44%	100.0%	$27,282	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001583	Trunkmain	Sewer Main	2006	96.2	375		$34,496	44%	100.0%	$15,316	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001584	Trunkmain	Sewer Main	2006	63.0	375		$22,638	44%	100.0%	$10,051	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001585	Trunkmain	Sewer Main	2006	57.3	450		$24,794	44%	100.0%	$11,009	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001587	Trunkmain	Sewer Main	2006	25.3	450		$10,780	44%	100.0%	$4,786	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001589	Trunkmain	Sewer Main	2006	72.5	450		$32,340	44%	100.0%	$14,359	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001590	Trunkmain	Sewer Main	2006	167.4	450		$74,382	44%	100.0%	$33,026	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001591	Trunkmain	Sewer Main	2006	21.9	450		$9,702	44%	100.0%	$4,308	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001592	Trunkmain	Sewer Main	2006	111.4	450		$49,588	44%	100.0%	$22,017	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001593	Trunkmain	Sewer Main	2006	17.9	450		$7,869	44%	100.0%	$3,494	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001594	Trunkmain	Sewer Main	2006	48.5	450		$21,560	44%	100.0%	$9,573	Trunkmain, Post 1986 asset
Goulburn	IPW-0001595	Trunkmain	Sewer Main	2006	57.4	450		$25,872	100%	100.0%	$25,872	Trunkmain, Post 1986 asset
Goulburn	IPW-0001596	Trunkmain	Sewer Main	2006	33.3	450		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0001596	Trunkmain	Sewer Main	2006	27.6	450		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003104	Trunkmain	Sewer Main	2006	28.5	225		$7,115	100%	100.0%	$7,115	Trunkmain, Post 1986 asset
Goulburn	IPW-0003106	Trunkmain	Sewer Main	2006	36.2	225		$8,947	100%	100.0%	$8,947	Trunkmain, Post 1986 asset
Goulburn	IPW-0003578	Trunkmain	Sewer Main	2006	37.0	225		$9,163	100%	100.0%	$9,163	Trunkmain, Post 1986 asset
Goulburn	IPW-0003579	Trunkmain	Sewer Main	2006	61.9	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0003580	Trunkmain	Sewer Main	2006	50.6	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003581	Trunkmain	Sewer Main	2006	39.6	225		$9,810	100%	100.0%	$9,810	Trunkmain, Post 1986 asset
Goulburn	IPW-0003582	Trunkmain	Sewer Main	2006	54.4	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003583	Trunkmain	Sewer Main	2006	53.6	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003584	Trunkmain	Sewer Main	2006	37.6	225		$9,379	100%	100.0%	$9,379	Trunkmain, Post 1986 asset
Goulburn	IPW-0003585	Trunkmain	Sewer Main	2006	56.1	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003586	Trunkmain	Sewer Main	2006	51.4	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003587	Trunkmain	Sewer Main	2006	33.7	225		$8,301	100%	100.0%	$8,301	Trunkmain, Post 1986 asset
Goulburn	IPW-0003588	Trunkmain	Sewer Main	2006	92.9	225		$22,638	100%	100.0%	$22,638	Trunkmain, Post 1986 asset
Goulburn	IPW-0003589	Trunkmain	Sewer Main	2006	91.4	225		$22,638	100%	100.0%	$22,638	Trunkmain, Post 1986 asset
Goulburn	IPW-0003590	Trunkmain	Sewer Main	2006	96.6	225		$23,716	100%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn	IPW-0003591	Trunkmain	Sewer Main	2006	39.8	225		$9,918	100%	100.0%	$9,918	Trunkmain, Post 1986 asset
Goulburn	IPW-0003592	Trunkmain	Sewer Main	2006	57.8	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003593	Trunkmain	Sewer Main	2006	96.3	225		$23,716	100%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn	IPW-0003594	Trunkmain	Sewer Main	2006	48.1	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003595	Trunkmain	Sewer Main	2006	20.2	225		$5,067	100%	100.0%	$5,067	Trunkmain, Post 1986 asset
Goulburn	IPW-0004156	Trunkmain	Sewer Main	2006	72.4	300		$22,638	100%	100.0%	$22,638	Trunkmain, Post 1986 asset
Goulburn	IPW-0004919	Trunkmain	Sewer Main	2006	52.0	300		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0004920	Trunkmain	Sewer Main	2006	47.3	300		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0004921	Trunkmain	Sewer Main	2006	62.8	300		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0004922	Trunkmain	Sewer Main	2006	97.5	300		$30,184	100%	100.0%	$30,184	Trunkmain, Post 1986 asset
Goulburn	IPW-0004923	Trunkmain	Sewer Main	2006	57.6	300		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0004924	Trunkmain	Sewer Main	2006	26.0	300		$7,977	100%	100.0%	$7,977	Trunkmain, Post 1986 asset
Goulburn	IPW-0004925	Trunkmain	Sewer Main	2006	25.0	300		$7,654	100%	100.0%	$7,654	Trunkmain, Post 1986 asset
Goulburn	IPW-0004930	Trunkmain	Sewer Main	2006	24.0	300		$7,330	100%	100.0%	$7,330	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	TEL0000056	Treatment	Mat Pond Pumps	2006				$37,433	44%	100.0%	$16,620	Treatment, post 1986 asset
Goulburn	IPW-0001630	Trunkmain	Sewer Main	2007	98.2	225		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0001631	Trunkmain	Sewer Main	2007	58.3	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0001632	Trunkmain	Sewer Main	2007	121.2	225		$30,184	100%	100.0%	$30,184	Trunkmain, Post 1986 asset
Goulburn	IPW-0001633	Trunkmain	Sewer Main	2007	45.1	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0001634	Trunkmain	Sewer Main	2007	53.7	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0001635	Trunkmain	Sewer Main	2007	21.1	225		$5,282	100%	100.0%	$5,282	Trunkmain, Post 1986 asset
Goulburn	IPW-0002172	Trunkmain	Sewer Main	2007	1654.0	250		$905,520	100%	100.0%	$905,520	Trunkmain, Post 1986 asset
Goulburn	IPW-0002173	Trunkmain	Sewer Main	2007	50.0	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003097	Trunkmain	Sewer Main	2007	80.2	300		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0003098	Trunkmain	Sewer Main	2007	66.2	300		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn	IPW-0003099	Trunkmain	Sewer Main	2007	80.4	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003100	Trunkmain	Sewer Main	2007	54.3	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003101	Trunkmain	Sewer Main	2007	77.4	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003102	Trunkmain	Sewer Main	2007	42.8	225		$10,672	100%	100.0%	$10,672	Trunkmain, Post 1986 asset
Goulburn	IPW-0003103	Trunkmain	Sewer Main	2007	39.9	225		$9,918	100%	100.0%	$9,918	Trunkmain, Post 1986 asset
Goulburn	IPW-0003112	Trunkmain	Sewer Main	2007	47.9	300		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	IPW-0003113	Trunkmain	Sewer Main	2007	29.4	300		$9,055	100%	100.0%	$9,055	Trunkmain, Post 1986 asset
Goulburn	IPW-0003114	Trunkmain	Sewer Main	2007	46.1	300		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003115	Trunkmain	Sewer Main	2007	54.8	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003116	Trunkmain	Sewer Main	2007	53.7	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003117	Trunkmain	Sewer Main	2007	53.6	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003118	Trunkmain	Sewer Main	2007	70.3	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003119	Trunkmain	Sewer Main	2007	50.4	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003122	Trunkmain	Sewer Main	2007	66.4	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003123	Trunkmain	Sewer Main	2007	45.2	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0003124	Trunkmain	Sewer Main	2007	65.2	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003125	Trunkmain	Sewer Main	2007	79.2	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003126	Trunkmain	Sewer Main	2007	66.2	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003127	Trunkmain	Sewer Main	2007	51.2	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0003128	Trunkmain	Sewer Main	2007	60.0	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0004940	Trunkmain	Sewer Main	2007	42.7	450		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0005563	Trunkmain	Sewer Main	2007	3.0	200		$711	100%	100.0%	$711	Trunkmain, Post 1986 asset
Goulburn	IPW-0005564	Trunkmain	Sewer Main	2007	61.9	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0005566	Trunkmain	Sewer Main	2007	61.8	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0005567	Trunkmain	Sewer Main	2007	86.5	225		$21,560	100%	100.0%	$21,560	Trunkmain, Post 1986 asset
Goulburn	IPW-0005568	Trunkmain	Sewer Main	2007	72.8	225		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0005569	Trunkmain	Sewer Main	2007	89.0	225		$21,560	100%	100.0%	$21,560	Trunkmain, Post 1986 asset
Goulburn	IPW-0005570	Trunkmain	Sewer Main	2007	71.7	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0005571	Trunkmain	Sewer Main	2007	70.0	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0005964	Trunkmain	Sewer Main	2007	94.6	225		$23,716	100%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn	IPW-0005965	Trunkmain	Sewer Main	2007	15.8	225		$3,881	100%	100.0%	$3,881	Trunkmain, Post 1986 asset
Goulburn	IPW-0005966	Trunkmain	Sewer Main	2007	28.2	225		$7,007	100%	100.0%	$7,007	Trunkmain, Post 1986 asset
Goulburn	IPW-0005967	Trunkmain	Sewer Main	2007	113.2	225		$28,028	100%	100.0%	$28,028	Trunkmain, Post 1986 asset
Goulburn	IPW-0005968	Trunkmain	Sewer Main	2007	22.1	225		$5,498	100%	100.0%	$5,498	Trunkmain, Post 1986 asset
Goulburn	IPW-0005969	Trunkmain	Sewer Main	2007	28.7	225		$7,115	100%	100.0%	$7,115	Trunkmain, Post 1986 asset
Goulburn	IPW-0005970	Trunkmain	Sewer Main	2007	98.6	225		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0005971	Trunkmain	Sewer Main	2007	20.7	225		$5,174	100%	100.0%	$5,174	Trunkmain, Post 1986 asset
Goulburn	IPW-0005972	Trunkmain	Sewer Main	2007	2.9	225		$711	100%	100.0%	$711	Trunkmain, Post 1986 asset
Goulburn	IPW-0005973	Trunkmain	Sewer Main	2007	113.3	225		$28,028	100%	100.0%	$28,028	Trunkmain, Post 1986 asset
Goulburn	IPW-0005974	Trunkmain	Sewer Main	2007	30.5	225		$7,546	100%	100.0%	$7,546	Trunkmain, Post 1986 asset
Goulburn	IPW-0005975	Trunkmain	Sewer Main	2007	22.7	225		$5,606	100%	100.0%	$5,606	Trunkmain, Post 1986 asset
Goulburn	IPW-0005976	Trunkmain	Sewer Main	2007	48.9	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0005977	Trunkmain	Sewer Main	2007	98.1	225		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0005978	Trunkmain	Sewer Main	2007	100.3	225		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0005979	Trunkmain	Sewer Main	2007	68.9	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0005980	Trunkmain	Sewer Main	2007	86.4	225		$21,560	100%	100.0%	$21,560	Trunkmain, Post 1986 asset
Goulburn	IPW-0005981	Trunkmain	Sewer Main	2007	85.9	225		$21,560	100%	100.0%	$21,560	Trunkmain, Post 1986 asset
Goulburn	IPW-0005982	Trunkmain	Sewer Main	2007	76.8	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0005983	Trunkmain	Sewer Main	2007	76.3	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0006058	Trunkmain	Sewer Main	2007	1274.0	625		$1,724,800	100%	100.0%	$1,724,800	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2007	6.7	225		$1,617	100%	100.0%	$1,617	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IGG0000009	Treatment	Travelling Irrigator	2007				$94,116	44%	100.0%	$41,788	Treatment, post 1986 asset
Goulburn	TEL0000034	Pump Station	Lillkar Road PS Generator	2007				$69,518	100%	100.0%	$69,518	Pump Station, post 1986 asset
Goulburn	TEL0000033	Pump Station	Hume Street Pumps	2007				$68,448	100%	100.0%	$68,448	Pump Station, post 1986 asset
Goulburn	TEL0000051	Pump Station	Hume Street Access Road	2007				$32,085	100%	100.0%	$32,085	Pump Station, post 1986 asset
Goulburn	TEL0000038	Pump Station	Hume St Valve Pit	2007				$48,128	100%	100.0%	$48,128	Pump Station, post 1986 asset
Goulburn	TEL0000030	Pump Station	Hume St Pumps Station Telemetery	2007				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	TEL0000031	Pump Station	Hume St PS Pipework	2007				$90,908	100%	100.0%	$90,908	Pump Station, post 1986 asset
Goulburn	TEL0000050	Pump Station	Hume St Fencing	2007				$10,267	100%	100.0%	$10,267	Pump Station, post 1986 asset
Goulburn	TEL0000049	Pump Station	Hume Pumps Station	2007				$748,654	100%	100.0%	$748,654	Pump Station, post 1986 asset
Goulburn	TEL0000042	Pump Station	Hume PS valves and fittings	2007				$37,433	100%	100.0%	$37,433	Pump Station, post 1986 asset
Goulburn	TEL0000032	Pump Station	Hume PS Switchboard	2007				$96,256	100%	100.0%	$96,256	Pump Station, post 1986 asset
Goulburn	TEL0000039	Pump Station	Hume PS Generator	2007				$69,518	100%	100.0%	$69,518	Pump Station, post 1986 asset
Goulburn	TEL0000036	Pump Station	Hume PS Building	2007				$45,989	100%	100.0%	$45,989	Pump Station, post 1986 asset
Goulburn	TEL0000046	Pump Station	Ducks Lane Pump Station	2007				$748,654	100%	100.0%	$748,654	Pump Station, post 1986 asset
Goulburn	TEL0000047	Pump Station	Ducks Lane PS valves and fittings	2007				$37,433	100%	100.0%	$37,433	Pump Station, post 1986 asset
Goulburn	TEL0000045	Pump Station	Ducks Lane PS Valve Pit	2007				$48,128	100%	100.0%	$48,128	Pump Station, post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	TEL0000044	Pump Station	Ducks Lane PS Telemetery	2007				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	TEL0000043	Pump Station	Ducks Lane PS Switchboard	2007				$96,256	100%	100.0%	$96,256	Pump Station, post 1986 asset
Goulburn	TEL0000041	Pump Station	Ducks Lane PS Pumps	2007				$68,448	100%	100.0%	$68,448	Pump Station, post 1986 asset
Goulburn	TEL0000048	Pump Station	Ducks Lane PS Pipework	2007				$90,908	100%	100.0%	$90,908	Pump Station, post 1986 asset
Goulburn	TEL0000040	Pump Station	Ducks Lane PS Building	2007				$45,989	100%	100.0%	$45,989	Pump Station, post 1986 asset
Goulburn	TEL0000052	Pump Station	Ducks Lane Fencing	2007				$10,267	100%	100.0%	$10,267	Pump Station, post 1986 asset
Goulburn	TEL0000053	Pump Station	Ducks Lane Access Road	2007				$32,085	100%	100.0%	$32,085	Pump Station, post 1986 asset
Goulburn, Marys Mount	IWM0000063	Treatment	UV Disinfection Telemetry	2007				$26,738	44%	100.0%	$11,872	Wastewater treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000062	Treatment	UV Disinfection Switchboard7500	2007				$566,838	44%	100.0%	$251,676	Wastewater treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000061	Treatment	UV Disinfection Switch Building	2007				$81,282	44%	100.0%	$36,089	Wastewater treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000090	Treatment	UV Disinfection SS Pipework	2007				$192,511	44%	100.0%	$85,475	Wastewater treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000060	Treatment	UV Disinfection Reactors	2007				$770,044	44%	100.0%	$341,900	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000059	Treatment	UV Disinfection Priming Pumps	2007				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000089	Treatment	UV Disinfection Pressure Reg valves	2007				$9,626	44%	100.0%	$4,274	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000058	Treatment	UV Disinfection Pressure Reg valve	2007				$38,502	44%	100.0%	$17,095	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000088	Treatment	UV Disinfection PLC	2007				$64,170	44%	100.0%	$28,492	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000041	Treatment	UV Disinfection Flowmeters	2007				$41,711	44%	100.0%	$18,520	Treatment, post 1986 asset
Goulburn, Marys Mount	ITC0000020	Treatment	UV Disinfection Building	2007				$160,426	44%	100.0%	$71,229	Treatment, post 1986 asset
Goulburn, Marys Mount	ITC0000008	Treatment	UV Disinfection Auto Control Valves	2007				$51,336	44%	100.0%	$22,793	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000011	Treatment	UV Disinfection Assorted Valves	2007				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn, Marys Mount	IIF0000001	Treatment	Irrigation PS valves	2007				$26,738	44%	100.0%	$11,872	Treatment, post 1986 asset
Goulburn, Marys Mount	IIF0000002	Treatment	Irrigation PS Telemetry	2007				$19,251	44%	100.0%	$8,547	Treatment, post 1986 asset
Goulburn, Marys Mount	IST0000001	Treatment	Irrigation PS Switchboards	2007				$278,071	44%	100.0%	$123,464	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000002	Treatment	Irrigation PS mains switchboard	2007				$235,291	44%	100.0%	$104,469	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000003	Treatment	Irrigation PS Main Pumps	2007				$139,036	44%	100.0%	$61,732	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000001	Treatment	Irrigation PS Local Control Panels	2007				$16,043	44%	100.0%	$7,123	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000009	Treatment	Irrigation PS Jockey Pump	2007				$6,952	44%	100.0%	$3,087	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000010	Treatment	Irrigation PS DICL/SS Pipework	2007				$213,901	44%	100.0%	$94,972	Treatment, post 1986 asset
Goulburn, Marys Mount	WEL0000022	Treatment	Irrigation PS Crane	2007				$8,021	44%	100.0%	$3,561	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000028	Treatment	Irrigation PS 2A & 2B Pumps	2007				$25,668	44%	100.0%	$11,397	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000064	Treatment	Irrigation PS Hoist	2007				$10,695	44%	100.0%	$4,749	Treatment, post 1986 asset
Goulburn	IPW-0002440	Trunkmain	Sewer Main	2008	81.7	300		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0002441	Trunkmain	Sewer Main	2008	78.9	300		$23,716	100%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn	IPW-0002442	Trunkmain	Sewer Main	2008	67.6	300		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn	IPW-0002445	Trunkmain	Sewer Main	2008	77.8	450		$34,496	100%	100.0%	$34,496	Trunkmain, Post 1986 asset
Goulburn	IPW-0002446	Trunkmain	Sewer Main	2008	78.2	450		$34,496	100%	100.0%	$34,496	Trunkmain, Post 1986 asset
Goulburn	IPW-0002447	Trunkmain	Sewer Main	2008	78.1	450		$34,496	100%	100.0%	$34,496	Trunkmain, Post 1986 asset
Goulburn	IPW-0002448	Trunkmain	Sewer Main	2008	78.0	450		$34,496	100%	100.0%	$34,496	Trunkmain, Post 1986 asset
Goulburn	IPW-0002449	Trunkmain	Sewer Main	2008	78.6	450		$34,496	100%	100.0%	$34,496	Trunkmain, Post 1986 asset
Goulburn	IPW-0002450	Trunkmain	Sewer Main	2008	75.9	450		$33,418	100%	100.0%	$33,418	Trunkmain, Post 1986 asset
Goulburn	IPW-0002451	Trunkmain	Sewer Main	2008	79.7	450		$35,574	100%	100.0%	$35,574	Trunkmain, Post 1986 asset
Goulburn	IPW-0002452	Trunkmain	Sewer Main	2008	32.0	450		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0002492	Trunkmain	Sewer Main	2008	58.2	450		$25,872	100%	100.0%	$25,872	Trunkmain, Post 1986 asset
Goulburn	IPW-0002494	Trunkmain	Sewer Main	2008	56.0	450		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0002495	Trunkmain	Sewer Main	2008	56.7	450		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0002496	Trunkmain	Sewer Main	2008	33.0	450		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0002504	Trunkmain	Sewer Main	2008	58.4	450		$25,872	100%	100.0%	$25,872	Trunkmain, Post 1986 asset
Goulburn	IPW-0002505	Trunkmain	Sewer Main	2008	57.7	450		$25,872	100%	100.0%	$25,872	Trunkmain, Post 1986 asset
Goulburn	IPW-0003111	Trunkmain	Sewer Main	2008	50.9	300		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003121	Trunkmain	Sewer Main	2008	28.8	225		$7,115	100%	100.0%	$7,115	Trunkmain, Post 1986 asset
Goulburn	IPW-0003386	Trunkmain	Sewer Main	2008	58.0	300		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0003387	Trunkmain	Sewer Main	2008	58.4	300		$18,326	100%	100.0%	$18,326	Trunkmain, Post 1986 asset
Goulburn	IPW-0003388	Trunkmain	Sewer Main	2008	53.1	300		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003389	Trunkmain	Sewer Main	2008	74.8	300		$22,638	100%	100.0%	$22,638	Trunkmain, Post 1986 asset
Goulburn	IPW-0003390	Trunkmain	Sewer Main	2008	49.4	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003391	Trunkmain	Sewer Main	2008	45.6	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0003392	Trunkmain	Sewer Main	2008	43.3	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0003393	Trunkmain	Sewer Main	2008	46.5	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003394	Trunkmain	Sewer Main	2008	43.8	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0003395	Trunkmain	Sewer Main	2008	68.2	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2008	255.8	250		$140,140	100%	100.0%	$140,140	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IFM0000001	Treatment	STP Re-Use PS Mechanical	2008				$139,036	44%	100.0%	$61,732	Treatment, post 1986 asset
Goulburn, Marys Mount	BUI0000034	Treatment	STP Effluent PS Mechanical	2008				$90,908	44%	100.0%	$40,363	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000066	Treatment	Screenings Compactor Replacement	2008				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000068	Treatment	Re-Use PS Local Control Panels	2008				$96,256	44%	100.0%	$42,737	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000084	Treatment	L978 Ross St EPS Upgrade 0401991	2008				$802,129	44%	100.0%	$356,145	WWTP effluent pumping, post 1986 asset
Goulburn, Marys Mount	IWM0000082	Treatment	Effluent PS Walkway Structure	2008				$64,170	44%	100.0%	$28,492	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000081	Treatment	Effluent PS Local Control Panel	2008				$48,128	44%	100.0%	$21,369	Treatment, post 1986 asset
Goulburn	IWM0000065	Pump Station	Clyde St Pump Station	2008				$74,865	100%	100.0%	$74,865	Pump Station, post 1986 asset
Goulburn	IPW-0000935	Trunkmain	Sewer Main	2009	40.8	225		$10,133	100%	100.0%	$10,133	Trunkmain, Post 1986 asset
Goulburn	IPW-0000937	Trunkmain	Sewer Main	2009	65.0	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0000938	Trunkmain	Sewer Main	2009	34.0	225		$8,408	100%	100.0%	$8,408	Trunkmain, Post 1986 asset
Goulburn	IPW-0000939	Trunkmain	Sewer Main	2009	34.0	225		$8,408	100%	100.0%	$8,408	Trunkmain, Post 1986 asset
Goulburn	IPW-0003385	Trunkmain	Sewer Main	2009	71.0	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003396	Trunkmain	Sewer Main	2009	68.5	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003397	Trunkmain	Sewer Main	2009	46.8	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0004268	Trunkmain	Sewer Main	2009	181.2	600		$129,360	100%	100.0%	$129,360	Trunkmain, Post 1986 asset
Goulburn	IPW-0004271	Trunkmain	Sewer Main	2009	176.4	600		$118,580	100%	100.0%	$118,580	Trunkmain, Post 1986 asset
Goulburn	IPW-0004272	Trunkmain	Sewer Main	2009	118.7	600		$81,928	100%	100.0%	$81,928	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	90.2	225		$22,638	100%	100.0%	$22,638	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	85.0	225		$21,560	100%	100.0%	$21,560	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	84.7	225		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	83.8	225		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	81.3	225		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	77.0	225		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	69.9	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	51.3	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	48.6	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	43.4	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	30.0	225		$7,438	100%	100.0%	$7,438	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	21.6	225		$5,390	100%	100.0%	$5,390	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2009	11.1	225		$2,695	100%	100.0%	$2,695	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	BUI0000033	Treatment	Deer Park Irrigation	2009				$68,448	44%	100.0%	$30,391	Effluent irrigation, post 1986 asset
Goulburn, Marys Mount	IPW0000041	Treatment	Deer Park Hydrants	2009				$67,379	44%	100.0%	$29,916	Effluent irrigation, post 1986 asset
Goulburn	IWP0000088	Pump Station	Clyde Street Pump Station	2009				$21,390	100%	100.0%	$21,390	Pump Station, post 1986 asset
Goulburn	IWV0000007	Pump Station	Clyde St Telemetry	2009				$23,529	100%	100.0%	$23,529	Pump Station, post 1986 asset
Goulburn	IWV0000008	Pump Station	Clyde St PS Valves and fittings	2009				$16,043	100%	100.0%	$16,043	Pump Station, post 1986 asset
Goulburn	PLC0000001	Pump Station	Clyde St PS Pipework	2009				$34,224	100%	100.0%	$34,224	Pump Station, post 1986 asset
Goulburn	IPW-0002343	Trunkmain	Sewer Main	2010	55.3	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0002346	Trunkmain	Sewer Main	2010	66.0	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0002347	Trunkmain	Sewer Main	2010	55.1	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0002350	Trunkmain	Sewer Main	2010	32.0	225		$7,977	100%	100.0%	$7,977	Trunkmain, Post 1986 asset
Goulburn	IPW-0002351	Trunkmain	Sewer Main	2010	48.8	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0002418	Trunkmain	Sewer Main	2010	78.7	300		$23,716	100%	100.0%	$23,716	Trunkmain, Post 1986 asset
Goulburn	IPW-0002419	Trunkmain	Sewer Main	2010	80.6	300		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn	IPW-0002443	Trunkmain	Sewer Main	2010	52.9	300		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0002444	Trunkmain	Sewer Main	2010	66.3	300		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn	IPW-0002462	Trunkmain	Sewer Main	2010	64.2	300		$19,404	100%	100.0%	$19,404	Trunkmain, Post 1986 asset
Goulburn	IPW-0003376	Trunkmain	Sewer Main	2010	54.4	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003377	Trunkmain	Sewer Main	2010	16.8	225		$4,204	100%	100.0%	$4,204	Trunkmain, Post 1986 asset
Goulburn	IPW-0003378	Trunkmain	Sewer Main	2010	59.0	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0003379	Trunkmain	Sewer Main	2010	32.8	225		$8,085	100%	100.0%	$8,085	Trunkmain, Post 1986 asset
Goulburn	IPW-0003380	Trunkmain	Sewer Main	2010	46.4	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003381	Trunkmain	Sewer Main	2010	83.2	225		$20,482	100%	100.0%	$20,482	Trunkmain, Post 1986 asset
Goulburn	IPW-0003382	Trunkmain	Sewer Main	2010	46.6	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003383	Trunkmain	Sewer Main	2010	47.3	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003384	Trunkmain	Sewer Main	2010	66.5	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003398	Trunkmain	Sewer Main	2010	45.8	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003399	Trunkmain	Sewer Main	2010	67.2	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0004165	Trunkmain	Sewer Main	2010	19.9	225		$4,959	100%	100.0%	$4,959	Trunkmain, Post 1986 asset
Goulburn	IPW-0004166	Trunkmain	Sewer Main	2010	41.7	225		$10,349	100%	100.0%	$10,349	Trunkmain, Post 1986 asset
Goulburn	IPW-0004167	Trunkmain	Sewer Main	2010	27.6	225		$6,791	100%	100.0%	$6,791	Trunkmain, Post 1986 asset

Existing Capital Cost - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn	IPW-0004168	Trunkmain	Sewer Main	2010	16.3	225		$3,989	100%	100.0%	$3,989	Trunkmain, Post 1986 asset
Goulburn	IPW-0004170	Trunkmain	Sewer Main	2010	62.0	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0004171	Trunkmain	Sewer Main	2010	64.4	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0004172	Trunkmain	Sewer Main	2010	64.4	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0004173	Trunkmain	Sewer Main	2010	58.4	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2010	99.0	225		$24,794	100%	100.0%	$24,794	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2010	62.5	250		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2010	60.0	250		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2010	15.4	250		$4,096	100%	100.0%	$4,096	Trunkmain, Post 1986 asset
Goulburn		Trunkmain	Sewer Main	2010	5.5	250		$1,509	100%	100.0%	$1,509	Trunkmain, Post 1986 asset
Goulburn	IPW-0002433	Trunkmain	Sewer Main	2011	62.9	225		$15,092	100%	100.0%	$15,092	Trunkmain, Post 1986 asset
Goulburn	IPW-0002434	Trunkmain	Sewer Main	2011	63.9	225		$16,170	100%	100.0%	$16,170	Trunkmain, Post 1986 asset
Goulburn	IPW-0003498	Trunkmain	Sewer Main	2011	47.8	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003499	Trunkmain	Sewer Main	2011	44.8	225		$10,780	100%	100.0%	$10,780	Trunkmain, Post 1986 asset
Goulburn	IPW-0003500	Trunkmain	Sewer Main	2011	68.5	225		$17,248	100%	100.0%	$17,248	Trunkmain, Post 1986 asset
Goulburn	IPW-0003501	Trunkmain	Sewer Main	2011	57.8	225		$14,014	100%	100.0%	$14,014	Trunkmain, Post 1986 asset
Goulburn	IPW-0003502	Trunkmain	Sewer Main	2011	48.1	225		$11,858	100%	100.0%	$11,858	Trunkmain, Post 1986 asset
Goulburn	IPW-0003503	Trunkmain	Sewer Main	2011	37.9	225		$9,379	100%	100.0%	$9,379	Trunkmain, Post 1986 asset
Goulburn	IPW-0003513	Trunkmain	Sewer Main	2011	54.3	225		$12,936	100%	100.0%	$12,936	Trunkmain, Post 1986 asset
Goulburn	IPW-0004315	Trunkmain	Sewer Main	2011	24.1	225		$5,929	100%	100.0%	$5,929	Trunkmain, Post 1986 asset
Goulburn	WEL0000010	Pump Station	Bradley St 2 Pump 2	2011				$34,224	100%	100.0%	$34,224	Pump Station, post 1986 asset
Goulburn	ACC0000138	Pump Station	Long Street SPS Pumps	2012				$6,952	100%	100.0%	$6,952	Pump Station, post 1986 asset

Existing Capital Costs - Sewerage

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Goulburn, Marys Mount	IPW-0001211	Trunkmain	Sewer Trunkmain	1989		375		$21,560	55.6%	100.0%	$11,987	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001212	Trunkmain	Sewer Trunkmain	1989		375		$12,936	55.6%	100.0%	$7,192	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001213	Trunkmain	Sewer Trunkmain	1989		375		$28,028	55.6%	100.0%	$15,584	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001214	Trunkmain	Sewer Trunkmain	1989		375		$16,170	55.6%	100.0%	$8,991	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001215	Trunkmain	Sewer Trunkmain	1989		375		$9,702	55.6%	100.0%	$5,394	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001270	Trunkmain	Sewer Trunkmain	1989		375		$14,014	55.6%	100.0%	$7,792	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001311	Trunkmain	Sewer Trunkmain	1989		375		$20,482	55.6%	100.0%	$11,388	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001312	Trunkmain	Sewer Trunkmain	1989		375		$6,791	55.6%	100.0%	$3,776	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001313	Trunkmain	Sewer Trunkmain	1989		375		$20,482	55.6%	100.0%	$11,388	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001384	Trunkmain	Sewer Trunkmain	1989		375		$36,652	55.6%	100.0%	$20,379	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IDD0000014	Treatment	Valve Chamber	1990				$160,426	55.6%	100.0%	$89,197	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000069	Treatment	Sludge Dams	1990				$609,618	55.6%	100.0%	$338,948	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000061	Treatment	Sheds 2 3	1990				$21,390	55.6%	100.0%	$11,893	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000082	Treatment	Shed 1	1990				$18,182	55.6%	100.0%	$10,109	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000023	Treatment	Maturation Pump Station	1990				$716,569	55.6%	100.0%	$398,412	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000058	Treatment	Maturation Ponds Baffles	1990				$57,753	55.6%	100.0%	$32,111	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000060	Treatment	Maturation Ponds	1990				$1,176,456	55.6%	100.0%	$654,110	Treatment, post 1986 asset
Goulburn, Marys Mount	IDD0000010	Treatment	Maturation Pond Switchboard	1990				$128,341	55.6%	100.0%	$71,357	Treatment, post 1986 asset
Goulburn, Marys Mount	IGG0000010	Treatment	Maturation Pond Pump 2	1990				$69,518	55.6%	100.0%	$38,652	Treatment, post 1986 asset
Goulburn, Marys Mount	ILR0000001	Treatment	Maturation Pond Pump 1	1990				$69,518	55.6%	100.0%	$38,652	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000124	Treatment	Maturation Pond Plinth	1990				$16,043	55.6%	100.0%	$8,920	Treatment, post 1986 asset
Goulburn, Marys Mount	WEL0000016	Treatment	Internal Road	1990				$470,582	55.6%	100.0%	$261,644	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000022	Treatment	Humus Tank 4	1990				$491,973	55.6%	100.0%	$273,537	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000059	Treatment	Farm Pipework	1990				$2,139,011	55.6%	100.0%	$1,189,290	Treatment, post 1986 asset
Goulburn, Marys Mount	ITC0000018	Treatment	Farm Perimeter Fencing	1990				$320,852	55.6%	100.0%	$178,394	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000040	Treatment	Stormflow Pond	1994				$4,812,775	55.6%	50.0%	$1,337,951	Treatment, post 1986 asset; GMC estimated 50% growth related
Goulburn, Marys Mount	IRO0000023	Treatment	Shed 5	1995				$69,518	55.6%	100.0%	$38,652	Treatment, post 1986 asset
Goulburn, Marys Mount	ICO0000001	Treatment	Balance Tank 2	1998				$192,511	55.6%	100.0%	$107,036	Treatment, post 1986 asset
Goulburn, Marys Mount	IRG0000007	Treatment	Balance Tank 1	1998				$695,179	55.6%	100.0%	$386,519	Treatment, post 1986 asset
Goulburn, Marys Mount	IOP0000001	Treatment	Travelling Irrigator	1999				$35,294	55.6%	100.0%	$19,623	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000348	Treatment	Step Screen Electrical works	1999				$26,738	55.6%	100.0%	$14,866	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000347	Pump Station	Kenmore Bridge Switchboard	1999				$47,058	55.6%	100.0%	$26,164	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000125	Pump Station	Kenmore Bridge Generator Building	1999				$45,989	55.6%	100.0%	$25,570	Pump Station, post 1986 asset
Goulburn, Marys Mount	ACC0000086	Pump Station	Kenmore Bridge Extraction Fan	1999				$37,433	55.6%	100.0%	$20,813	Pump Station, post 1986 asset
Goulburn, Marys Mount	WEL0000020	Treatment	Inlet Works Step Screen	1999				$128,341	55.6%	100.0%	$71,357	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000026	Treatment	Inlet works mesh floor	1999				$48,128	55.6%	100.0%	$26,759	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000061	Treatment	Humus Tank Pumps	1999				$149,731	55.6%	100.0%	$83,250	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000063	Treatment	Humus Scrapers	1999				$417,107	55.6%	100.0%	$231,912	Treatment, post 1986 asset
Goulburn, Marys Mount	IPS0000001	Treatment	Trickling filter media	2000				$139,036	55.6%	100.0%	$77,304	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000614	Treatment	Humus Spray Wash	2000				$21,390	55.6%	100.0%	$11,893	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000033	Treatment	Wet Weather Storage	2001				$2,780,714	55.6%	100.0%	$1,546,077	Treatment, post 1986 asset
Goulburn, Marys Mount	IPS0000019	Pump Station	Telemetry	2001				$23,529	55.6%	100.0%	$13,082	Pump Station, post 1986 asset
Goulburn, Marys Mount	IPW0000037	Treatment	Kenmore Pivot Irrigator	2001				$98,395	55.6%	100.0%	$54,707	Treatment, post 1986 asset
Marys Mount	IWM0000087	Pump Station	Valve Pit	2002				$21,390	100.0%	100.0%	$21,390	Pump Station, post 1986 asset
Marys Mount	ACC0000183	Pump Station	Telemetry	2002				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Marys Mount	IWP0000076	Pump Station	Marys Mount Wet Well	2002				$395,717	100.0%	100.0%	$395,717	Pump Station, post 1986 asset
Marys Mount	ACC0000089	Pump Station	Marys Mount VSD Drives	2002				$25,668	100.0%	100.0%	$25,668	Pump Station, post 1986 asset
Marys Mount	ICE0000010	Pump Station	Marys Mount Switchboard	2002				$96,256	100.0%	100.0%	$96,256	Pump Station, post 1986 asset
Marys Mount	ACC0000087	Pump Station	Marys Mount Pumps	2002				$211,344	100.0%	100.0%	$211,344	Pump Station, post 1986 asset
Marys Mount	IWM0000048	Treatment	Marys Mount PS Storage Wells	2002				$1,604,258	100.0%	100.0%	$1,604,258	Treatment, post 1986 asset
Marys Mount	IPS0000011	Pump Station	Marys Mount Generator	2002				$69,518	100.0%	100.0%	$69,518	Pump Station, post 1986 asset

Existing Capital Costs - Sewerage

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Marys Mount	IPS0000010	Pump Station	Marys Mount Building	2002				$45,989	100.0%	100.0%	$45,989	Pump Station, post 1986 asset
Marys Mount	IPW0000032	Treatment	Marys Mount Access Road	2002				$10,695	100.0%	100.0%	$10,695	Treatment, post 1986 asset
Marys Mount	IPW0000031	Pump Station	Fencing and Roadway	2002				$11,765	100.0%	100.0%	$11,765	Pump Station, post 1986 asset
Goulburn, Marys Mount	STS0000002	Treatment	Wind Monitoring Unit	2003				$3,743	55.6%	100.0%	$2,081	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000054	Treatment	Telemetry	2003				$19,251	55.6%	100.0%	$10,704	Treatment, post 1986 asset
Goulburn, Marys Mount	IWP0000087	Treatment	Telemetry	2003				$23,529	55.6%	100.0%	$13,082	Treatment, post 1986 asset
Goulburn, Marys Mount	BSS0000009	Treatment	Shed 4	2003				$14,973	55.6%	100.0%	$8,325	Treatment, post 1986 asset
Goulburn, Marys Mount	BSS0000007	Treatment	Safety Shower	2003				$5,348	55.6%	100.0%	$2,973	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000176	Treatment	No 2 Farm 6 Strand Pivot Irrigator	2003				$149,731	55.6%	100.0%	$83,250	Treatment, post 1986 asset
Goulburn, Marys Mount	IPS0000022	Treatment	No 2 Farm 5 Strand Pivot Irrigator	2003				$128,341	55.6%	100.0%	$71,357	Treatment, post 1986 asset
Goulburn, Marys Mount	ACC0000101	Treatment	MCC Panel	2003				$69,518	55.6%	100.0%	$38,652	Treatment, post 1986 asset
Goulburn, Marys Mount	ICP0000002	Treatment	Internal Road	2003				$72,726	55.6%	100.0%	$40,436	Treatment, post 1986 asset
Goulburn, Marys Mount	BLD0000052	Treatment	Fence Energiser	2003				$535	55.6%	100.0%	$297	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000052	Treatment	Alum tanks	2003				$117,646	55.6%	100.0%	$65,411	Treatment, post 1986 asset
Goulburn, Marys Mount	BSW0000002	Treatment	Alum Switchboard	2003				$66,309	55.6%	100.0%	$36,868	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000051	Treatment	Alum pumps	2003				$9,091	55.6%	100.0%	$5,054	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000050	Treatment	Alum Pumps	2003				$9,091	55.6%	100.0%	$5,054	Treatment, post 1986 asset
Goulburn, Marys Mount	IWM0000049	Treatment	Alum bund	2003				$79,143	55.6%	100.0%	$44,004	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000036	Treatment	Septic Collection Tank	2004				$48,128	55.6%	100.0%	$26,759	Treatment, post 1986 asset
Goulburn, Marys Mount	IVC0000016	Treatment	Flygt Mixer	2004				$16,043	55.6%	100.0%	$8,920	Treatment, post 1986 asset
Goulburn, Marys Mount	IST0000002	Pump Station	Brewer Street Generator	2004				$69,518	55.6%	100.0%	$38,652	Pump Station, post 1986 asset
Goulburn, Marys Mount	TEL0000055	Treatment	Trickling filter arms	2005				$256,681	55.6%	100.0%	$142,715	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000034	Treatment	Travelling Irrigator	2005				$139,036	55.6%	100.0%	$77,304	Treatment, post 1986 asset
Goulburn, Marys Mount	ISW0000033	Pump Station	Kenmore Bridge Storage Well	2005				$74,865	55.6%	100.0%	$41,625	Pump Station, post 1986 asset
Marys Mount	IPW-0001520	Trunkmain	Sewer Trunkmain	2005	62.4	300		$8,947	100.0%	100.0%	$8,947	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001521	Trunkmain	Sewer Trunkmain	2005	24.3	300		$10,025	100.0%	100.0%	$10,025	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001522	Trunkmain	Sewer Trunkmain	2005	116.0	300		$17,248	100.0%	100.0%	$17,248	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001523	Trunkmain	Sewer Trunkmain	2005	79.6	300		$11,858	100.0%	100.0%	$11,858	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001524	Trunkmain	Sewer Trunkmain	2005	77.1	300		$14,014	100.0%	100.0%	$14,014	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001525	Trunkmain	Sewer Trunkmain	2005	119.4	300		$14,014	100.0%	100.0%	$14,014	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001526	Trunkmain	Sewer Trunkmain	2005	42.5	300		$15,092	100.0%	100.0%	$15,092	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001527	Trunkmain	Sewer Trunkmain	2005	35.8	300		$19,404	100.0%	100.0%	$19,404	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001528	Trunkmain	Sewer Trunkmain	2005	55.0	300		$10,780	100.0%	100.0%	$10,780	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001529	Trunkmain	Sewer Trunkmain	2005	35.9	300		$9,918	100.0%	100.0%	$9,918	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001530	Trunkmain	Sewer Trunkmain	2005	77.0	375		$7,977	100.0%	100.0%	$7,977	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001544	Trunkmain	Sewer Trunkmain	2005	80.8	300		$8,732	100.0%	100.0%	$8,732	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001545	Trunkmain	Sewer Trunkmain	2005	48.5	300		$29,106	100.0%	100.0%	$29,106	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001546	Trunkmain	Sewer Trunkmain	2005	48.5	300		$19,404	100.0%	100.0%	$19,404	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001547	Trunkmain	Sewer Trunkmain	2005	39.7	300		$7,438	100.0%	100.0%	$7,438	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001548	Trunkmain	Sewer Trunkmain	2005	6.0	300		$35,574	100.0%	100.0%	$35,574	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001549	Trunkmain	Sewer Trunkmain	2005	58.3	300		$24,794	100.0%	100.0%	$24,794	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001550	Trunkmain	Sewer Trunkmain	2005	66.6	300		$23,716	100.0%	100.0%	$23,716	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001551	Trunkmain	Sewer Trunkmain	2005	77.0	300		$36,652	100.0%	100.0%	$36,652	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001552	Trunkmain	Sewer Trunkmain	2005	72.7	300		$12,936	100.0%	100.0%	$12,936	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001553	Trunkmain	Sewer Trunkmain	2005	1.3	300		$10,780	100.0%	100.0%	$10,780	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001554	Trunkmain	Sewer Trunkmain	2005	61.8	300		$17,248	100.0%	100.0%	$17,248	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001555	Trunkmain	Sewer Trunkmain	2005	37.4	300		$10,780	100.0%	100.0%	$10,780	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001556	Trunkmain	Sewer Trunkmain	2005	77.6	300		$23,716	100.0%	100.0%	$23,716	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001568	Trunkmain	Sewer Trunkmain	2005	46.0	300		$24,794	100.0%	100.0%	$24,794	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001569	Trunkmain	Sewer Trunkmain	2005	27.1	300		$15,092	100.0%	100.0%	$15,092	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001569	Trunkmain	Sewer Trunkmain	2005	39.1	300		$15,092	100.0%	100.0%	$15,092	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001597	Trunkmain	Sewer Trunkmain	2005	56.8	300		$11,858	100.0%	100.0%	$11,858	Trunkmain, Post 1986 asset

Existing Capital Costs - Sewerage

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Marys Mount	IPW-0001602	Trunkmain	Sewer Trunkmain	2005	19.1	450		$2,695	100.0%	100.0%	$2,695	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001603	Trunkmain	Sewer Trunkmain	2005	56.2	450		$25,872	100.0%	100.0%	$25,872	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001604	Trunkmain	Sewer Trunkmain	2005	103.4	450		$29,106	100.0%	100.0%	$29,106	Trunkmain, Post 1986 asset
Marys Mount	IPW-0001614	Trunkmain	Sewer Trunkmain	2005		300		$23,716	100.0%	100.0%	$23,716	Trunkmain, Post 1986 asset
Marys Mount	IPW-0002171	Trunkmain	Sewer Trunkmain	2005		300		$22,638	100.0%	100.0%	$22,638	Trunkmain, Post 1986 asset
Marys Mount	IPW-0005963	Trunkmain	Sewer Trunkmain	2005		200		$302	100.0%	100.0%	$302	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	TEL0000056	Treatment	Mat Pond Pumps	2006				$37,433	55.6%	100.0%	$20,813	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW-0001578	Trunkmain	Sewer Trunkmain	2006	17.9	375		$42,042	55.6%	100.0%	$23,375	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001579	Trunkmain	Sewer Trunkmain	2006	48.5	375		$43,120	55.6%	100.0%	$23,975	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001580	Trunkmain	Sewer Trunkmain	2006	29.0	375		$19,404	55.6%	100.0%	$10,789	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001581	Trunkmain	Sewer Trunkmain	2006	32.6	375		$20,482	55.6%	100.0%	$11,388	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001582	Trunkmain	Sewer Trunkmain	2006	56.7	375		$61,446	55.6%	100.0%	$34,164	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001583	Trunkmain	Sewer Trunkmain	2006	37.1	375		$34,496	55.6%	100.0%	$19,180	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001584	Trunkmain	Sewer Trunkmain	2006	44.7	375		$22,638	55.6%	100.0%	$12,587	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001585	Trunkmain	Sewer Trunkmain	2006	45.5	450		$24,794	55.6%	100.0%	$13,785	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001587	Trunkmain	Sewer Trunkmain	2006	49.5	450		$10,780	55.6%	100.0%	$5,994	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001589	Trunkmain	Sewer Trunkmain	2006	61.8	450		$32,340	55.6%	100.0%	$17,981	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001590	Trunkmain	Sewer Trunkmain	2006	36.0	450		$74,382	55.6%	100.0%	$41,356	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001591	Trunkmain	Sewer Trunkmain	2006	32.3	450		$9,702	55.6%	100.0%	$5,394	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001592	Trunkmain	Sewer Trunkmain	2006	22.3	450		$49,588	55.6%	100.0%	$27,571	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001593	Trunkmain	Sewer Trunkmain	2006	28.4	450		$7,869	55.6%	100.0%	$4,375	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IPW-0001594	Trunkmain	Sewer Trunkmain	2006	94.4	450		$21,560	55.6%	100.0%	$11,987	Trunkmain, Post 1986 asset
Goulburn, Marys Mount	IGG0000009	Treatment	Travelling Irrigator	2007				$94,116	55.6%	100.0%	$52,329	Treatment, post 1986 asset
Goulburn, Marys Mount	BUI0000033	Treatment	Deer Park Irrigation	2009				$68,448	55.6%	100.0%	$38,057	Treatment, post 1986 asset
Goulburn, Marys Mount	IPW0000041	Treatment	Deer Park Hydrants	2009				$67,379	55.6%	100.0%	$37,463	Treatment, post 1986 asset

Existing Capital Costs - Sewerage

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Maralun	IVC0000015	Pump Station	Telemetry	1987				$23,529	100.0%	35.3%	$8,301	Pump Station, post 1986 asset
Maralun	ISW0000021	Pump Station	Telemetry	1987				$23,529	100.0%	35.3%	$8,301	Pump Station, post 1986 asset
Maralun	WEL0000033	Pump Station	Switchboard	1987				$21,390	100.0%	35.3%	$7,546	Pump Station, post 1986 asset
Maralun	IWP0000056	Pump Station	Switchboard	1987				$21,390	100.0%	35.3%	$7,546	Pump Station, post 1986 asset
Maralun	IPW0000058	Pump Station	Pipes, valves and fittings	1987				$10,695	100.0%	35.3%	$3,773	Pump Station, post 1986 asset
Maralun	BUI0000027	Pump Station	Pipes, valves and fittings	1987				$10,695	100.0%	35.3%	$3,773	Pump Station, post 1986 asset
Maralun	DDC0000004	Pump Station	BP West Wet Well	1987				$68,448	100.0%	35.3%	$24,149	Pump Station, post 1986 asset
Maralun	DDC0000005	Pump Station	BP West Pumps	1987				$10,695	100.0%	35.3%	$3,773	Pump Station, post 1986 asset
Maralun	ACC0000092	Pump Station	BP West PS Pipework	1987				$26,738	100.0%	35.3%	$9,433	Pump Station, post 1986 asset
Maralun	ACC0000078	Pump Station	BP East Wet Well	1987				$68,448	100.0%	35.3%	$24,149	Pump Station, post 1986 asset
Maralun	IWV0000005	Pump Station	BP East Pumps	1987				$11,765	100.0%	35.3%	$4,151	Pump Station, post 1986 asset
Maralun	TEL0000057	Pump Station	BP East PS Pipework	1987				$26,738	100.0%	35.3%	$9,433	Pump Station, post 1986 asset
Maralun	ACC0000083	Treatment	Marulan STP Lagoon	1990				$34,224	100.0%	35.3%	$12,074	Treatment, post 1986 asset
Maralun	IPS0000007	Treatment	Lined Dam	1990				$278,071	100.0%	35.3%	$98,104	Treatment, post 1986 asset
Maralun	IHG0000005	Treatment	Culvert	1990				$12,834	100.0%	35.3%	$4,528	Treatment, post 1986 asset
Maralun	IPW-0005941	Trunk Sewermain		1992	19	225		$4,851	100.0%	35.3%	$1,711	Trunkmain, Post 1986 asset
Maralun	ACC0000093	Treatment	Settling Lagoon	1995				$417,107	100.0%	35.3%	$147,156	Treatment, post 1986 asset
Maralun	ISW0000030	Treatment	Marulan STP Switchboard	1995				$21,390	100.0%	35.3%	$7,546	Treatment, post 1986 asset
Maralun	BSS0000017	Treatment	Marulan STP Shed	1995				$7,059	100.0%	35.3%	$2,490	Treatment, post 1986 asset
Maralun	IDD0000012	Treatment	Fencing	1995				$77,004	100.0%	35.3%	$27,167	Treatment, post 1986 asset
Maralun	ACC0000119	Treatment	Aerator and Pontoon	1995				$48,128	100.0%	35.3%	$16,980	Treatment, post 1986 asset
Maralun	IWP0000044	Pump Station	Telemetry	1997				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	MCC0000002	Pump Station	Telemetry	1997				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	WEL0000019	Pump Station	Switchboard	1997				$59,892	100.0%	100.0%	$59,892	Pump Station, post 1986 asset
Maralun	ISW0000025	Pump Station	Switchboard	1997				$59,892	100.0%	100.0%	$59,892	Pump Station, post 1986 asset
Maralun	IWP0000060	Pump Station	Pipes, valves and fittings	1997				$12,834	100.0%	100.0%	$12,834	Pump Station, post 1986 asset
Maralun	IPW0000062	Pump Station	Pipes, valves and fittings	1997				$12,834	100.0%	100.0%	$12,834	Pump Station, post 1986 asset
Maralun	WEL0000009	Pump Station	Goulburn St Wet Well	1997				$68,448	100.0%	100.0%	$68,448	Pump Station, post 1986 asset
Maralun	IBA0000002	Pump Station	Goulburn St Pumps	1997				$18,182	100.0%	100.0%	$18,182	Pump Station, post 1986 asset
Maralun	IDD0000009	Pump Station	Goulburn St PS Pipework	1997				$24,599	100.0%	100.0%	$24,599	Pump Station, post 1986 asset
Maralun	ISW0000014	Pump Station	George St Wet Well	1997				$68,448	100.0%	100.0%	$68,448	Pump Station, post 1986 asset
Maralun	IWP0000046	Pump Station	George St Pumps	1997				$11,765	100.0%	100.0%	$11,765	Pump Station, post 1986 asset
Maralun	IWP0000045	Pump Station	George St PS Pipework	1997				$24,599	100.0%	100.0%	$24,599	Pump Station, post 1986 asset
Maralun	IRG0000006	Pump Station	Telemetry	1998				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	IRG0000005	Pump Station	Switchboard	1998				$51,336	100.0%	100.0%	$51,336	Pump Station, post 1986 asset
Maralun	ACC0000137	Pump Station	Pipes, valves and fittings	1998				$12,834	100.0%	100.0%	$12,834	Pump Station, post 1986 asset
Maralun	IWP0000043	Pump Station	Brayton Rd Wet Well	1998				$68,448	100.0%	100.0%	$68,448	Pump Station, post 1986 asset
Maralun	ISW0000012	Pump Station	Brayton Rd Pumps	1998				$13,904	100.0%	100.0%	$13,904	Pump Station, post 1986 asset
Maralun	BSS0000014	Pump Station	Brayton Rd PS Pipework	1998				$29,946	100.0%	100.0%	$29,946	Pump Station, post 1986 asset
Maralun	ACC0000775	Treatment	Pipes, valves and fittings	2000				$26,738	100.0%	100.0%	$26,738	Treatment, post 1986 asset
Maralun	ACC0000751	Treatment	Marulan Irrigation Pump	2000				$34,224	100.0%	100.0%	$34,224	Treatment, post 1986 asset
Maralun	ACC0000724	Treatment	Marulan Farm Shed	2000				$22,460	100.0%	100.0%	$22,460	Treatment, post 1986 asset
Maralun	ACC0000725	Treatment	Marulan Farm Re-Use Storage Dam	2000				$770,044	100.0%	100.0%	$770,044	Treatment, post 1986 asset
Maralun	IWM0000055	Pump Station	Telemetry	2003				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	ILA0000003	Pump Station	Telemetry	2003				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	BSS0000006	Pump Station	Telemetry	2003				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	BSS0000012	Pump Station	Switchboard	2003				$59,892	100.0%	100.0%	$59,892	Pump Station, post 1986 asset
Maralun	BSS0000011	Pump Station	Switchboard	2003				$47,058	100.0%	100.0%	$47,058	Pump Station, post 1986 asset

Existing Capital Costs - Sewerage

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	Asset Description			MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
					Length (m)	Diameter (mm)	Size					
Maralun	BSS0000010	Pump Station	Switchboard	2003				$47,058	100.0%	100.0%	$47,058	Pump Station, post 1986 asset
Maralun	BLD0000051	Pump Station	Pipes, valves and fittings	2003				$16,043	100.0%	100.0%	$16,043	Pump Station, post 1986 asset
Maralun	ACC0000094	Pump Station	Pipes, valves and fittings	2003				$19,251	100.0%	100.0%	$19,251	Pump Station, post 1986 asset
Maralun	DDC0000006	Pump Station	Pipes, valves and fittings	2003				$19,251	100.0%	100.0%	$19,251	Pump Station, post 1986 asset
Maralun	IPS0000032	Pump Station	Overflow Pad	2003				$6,417	100.0%	100.0%	$6,417	Pump Station, post 1986 asset
Maralun	ACC0000115	Pump Station	Overflow Pad	2003				$6,417	100.0%	100.0%	$6,417	Pump Station, post 1986 asset
Maralun	ISM0000001	Pump Station	Maclura Ave Wet Well	2003				$68,448	100.0%	100.0%	$68,448	Pump Station, post 1986 asset
Maralun	ISM0000002	Pump Station	Maclura Ave Pumps	2003				$13,904	100.0%	100.0%	$13,904	Pump Station, post 1986 asset
Maralun	ISA0000001	Pump Station	Maclura Ave PS Pipework	2003				$26,738	100.0%	100.0%	$26,738	Pump Station, post 1986 asset
Maralun	IWP0000063	Pump Station	Betley Pk 1 Wet Well	2003				$71,657	100.0%	100.0%	$71,657	Pump Station, post 1986 asset
Maralun	BSS0000015	Pump Station	Betley Pk 1 Pumps	2003				$21,390	100.0%	100.0%	$21,390	Pump Station, post 1986 asset
Maralun	IWP0000062	Pump Station	Betley Park 2 Wet Well	2003				$71,657	100.0%	100.0%	$71,657	Pump Station, post 1986 asset
Maralun	IGG0000008	Pump Station	Betley Park 2 Pumps	2003				$35,553	100.0%	100.0%	$35,553	Pump Station, post 1986 asset
Maralun	IRO0000025	Pump Station	Betley Park 2 PS Pipework	2003				$37,433	100.0%	100.0%	$37,433	Pump Station, post 1986 asset
Maralun	IPW0000065	Pump Station	Betley Park 1 PS Pipework	2003				$37,433	100.0%	100.0%	$37,433	Pump Station, post 1986 asset
Maralun	IPW-0005861	Trunk Sewermain		2003	17	225		$4,312	100.0%	100.0%	$4,312	Trunkmain, Post 1986 asset
Maralun	IPW-0005864	Trunk Sewermain		2003	131	225		$32,340	100.0%	100.0%	$32,340	Trunkmain, Post 1986 asset
Maralun	IPW-0005865	Trunk Sewermain		2003	75	225		$18,326	100.0%	100.0%	$18,326	Trunkmain, Post 1986 asset
Maralun	ISW0000031	Pump Station	Telemetry	2004				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	ISW0000035	Pump Station	Telemetry	2004				$23,529	100.0%	100.0%	$23,529	Pump Station, post 1986 asset
Maralun	ISW0000037	Pump Station	Pipes, valves and fittings	2004				$16,043	100.0%	100.0%	$16,043	Pump Station, post 1986 asset
Maralun	ISW0000039	Pump Station	Pipes, valves and fittings	2004				$16,043	100.0%	100.0%	$16,043	Pump Station, post 1986 asset
Maralun	ISM0000004	Pump Station	Bonnet Park Pumps	2004				$13,904	100.0%	100.0%	$13,904	Pump Station, post 1986 asset
Maralun	ISM0000006	Pump Station	Bonnet Park 2 Wet Well	2004				$86,630	100.0%	100.0%	$86,630	Pump Station, post 1986 asset
Maralun	PIT0000005	Pump Station	Bonnet Park 2 Switchboard	2004				$47,058	100.0%	100.0%	$47,058	Pump Station, post 1986 asset
Maralun	ISM0000005	Pump Station	Bonnet Park 2 Pumps	2004				$13,904	100.0%	100.0%	$13,904	Pump Station, post 1986 asset
Maralun	ISM0000008	Pump Station	Bonnet Park 2 PS Pipework	2004				$37,433	100.0%	100.0%	$37,433	Pump Station, post 1986 asset
Maralun	ISM0000007	Pump Station	Bonnet Park 1 Wet Well	2004				$86,630	100.0%	100.0%	$86,630	Pump Station, post 1986 asset
Maralun	ILA0000004	Pump Station	Bonnet Park 1 Switchboard	2004				$47,058	100.0%	100.0%	$47,058	Pump Station, post 1986 asset
Maralun	PPM0000009	Pump Station	Bonnet Park 1 PS Pipework	2004				$37,433	100.0%	100.0%	$37,433	Pump Station, post 1986 asset
Maralun	IWM0000077	Treatment	Marulan Telemetry Renewal	2008				$49,791	100.0%	100.0%	$49,791	Treatment, post 1986 asset
Maralun	WEL0000023	Pump Station	BP West Pump 2	2011				$10,695	100.0%	100.0%	$10,695	Pump Station, post 1986 asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	1987	$3,908	100.0%	28.4%	$1,109	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$3,724	100.0%	28.4%	$1,057	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$17,360	100.0%	28.4%	$4,926	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$22,574	100.0%	28.4%	$6,406	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$7,227	100.0%	28.4%	$2,051	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$37,067	100.0%	28.4%	$10,519	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$2,396	100.0%	28.4%	$680	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$36,483	100.0%	28.4%	$10,353	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$17,291	100.0%	28.4%	$4,907	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$17,903	100.0%	28.4%	$5,080	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$38,295	100.0%	28.4%	$10,867	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$1,656	100.0%	28.4%	$470	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$13,137	100.0%	28.4%	$3,728	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1987	$13,528	100.0%	28.4%	$3,839	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	1987	$37,124	100.0%	28.4%	$10,535	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	1987	$52,178	100.0%	28.4%	$14,807	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1987	$7,425	100.0%	28.4%	$2,107	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1987	$27,486	100.0%	28.4%	$7,800	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1987	$12,176	100.0%	28.4%	$3,455	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1987	$70,107	100.0%	28.4%	$19,895	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1987	$11,422	100.0%	28.4%	$3,241	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1987	$58,266	100.0%	28.4%	$16,535	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1987	$43,392	100.0%	28.4%	$12,314	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1987	$54,605	100.0%	28.4%	$15,496	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	1987	$859	100.0%	28.4%	$244	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	1987	$859	100.0%	28.4%	$244	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	1987	$859	100.0%	28.4%	$244	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	1987	$71,968	100.0%	28.4%	$20,423	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	1987	$50,961	100.0%	0.0%	$0	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1200 mm diameter	1987	$942	100.0%	28.4%	$267	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1200 mm x 450 mm	1987	$1,263	100.0%	28.4%	$358	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1200 mm x 450 mm	1987	$1,263	100.0%	28.4%	$358	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1987	$5,474	100.0%	28.4%	$1,553	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1987	$15,419	100.0%	28.4%	$4,376	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1987	$39,688	100.0%	28.4%	$11,263	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$8,306	100.0%	28.4%	$2,357	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$18,650	100.0%	28.4%	$5,293	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$7,990	100.0%	28.4%	$2,267	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	600 mm diameter	1987	$3,519	100.0%	28.4%	$999	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$5,177	100.0%	28.4%	$1,469	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$2,786	100.0%	28.4%	$791	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$16,296	100.0%	28.4%	$4,625	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$25,071	100.0%	28.4%	$7,115	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$4,179	100.0%	28.4%	$1,186	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$20,284	100.0%	28.4%	$5,756	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$16,793	100.0%	28.4%	$4,766	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1987	$11,486	100.0%	28.4%	$3,260	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	675 mm diameter	1987	$406	100.0%	28.4%	$115	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	900 mm diameter	1987	$476	100.0%	28.4%	$135	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$196,071	100.0%	28.4%	$55,641	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$7,509	100.0%	28.4%	$2,131	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$6,343	100.0%	28.4%	$1,800	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$34,883	100.0%	28.4%	$9,899	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$76,395	100.0%	28.4%	$21,679	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$29,969	100.0%	28.4%	$8,504	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$26,934	100.0%	28.4%	$7,643	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1988	$224,709	100.0%	28.4%	$63,768	Post 1986 trunk asset
Goulburn		PIPE	1500 mm diameter	1988	$118,457	100.0%	28.4%	$33,616	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$18,501	100.0%	28.4%	$5,250	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$6,847	100.0%	28.4%	$1,943	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$5,602	100.0%	28.4%	$1,590	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$7,203	100.0%	28.4%	$2,044	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$4,717	100.0%	28.4%	$1,339	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$19,020	100.0%	28.4%	$5,397	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1988	$16,876	100.0%	28.4%	$4,789	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1988	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1988	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1988	$35,726	100.0%	28.4%	$10,138	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1988	$5,334	100.0%	28.4%	$1,514	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1988	$5,334	100.0%	28.4%	$1,514	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1988	$8,749	100.0%	28.4%	$2,483	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$5,896	100.0%	28.4%	$1,673	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$10,544	100.0%	28.4%	$2,992	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$25,582	100.0%	28.4%	$7,260	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$38,210	100.0%	28.4%	$10,843	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$28,739	100.0%	28.4%	$8,156	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	600 mm diameter	1988	$11,839	100.0%	28.4%	$3,360	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$0	100.0%	28.4%	$0	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1988	$0	100.0%	28.4%	$0	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1988	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	1988	$56,742	100.0%	28.4%	$16,102	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$109,244	100.0%	28.4%	$31,001	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$30,734	100.0%	28.4%	$8,722	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$35,119	100.0%	28.4%	$9,966	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$13,200	100.0%	28.4%	$3,746	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$31,171	100.0%	28.4%	$8,846	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$171,131	100.0%	28.4%	$48,564	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$75,867	100.0%	28.4%	$21,529	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$2,714	100.0%	28.4%	$770	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$6,390	100.0%	28.4%	$1,813	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$28,011	100.0%	28.4%	$7,949	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1988	$45,571	100.0%	28.4%	$12,932	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1989	$119,173	100.0%	28.4%	$33,819	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1989	$53,121	100.0%	28.4%	$15,075	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	1989	$24,911	100.0%	28.4%	$7,069	Post 1986 trunk asset
Goulburn		PIPE	1800 mm diameter	1989	$12,257	100.0%	28.4%	$3,478	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$2,016	100.0%	28.4%	$572	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$1,228	100.0%	28.4%	$348	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$2,386	100.0%	28.4%	$677	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$24,542	100.0%	28.4%	$6,965	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$5,004	100.0%	28.4%	$1,420	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$20,932	100.0%	28.4%	$5,940	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$10,928	100.0%	28.4%	$3,101	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$9,492	100.0%	28.4%	$2,694	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$7,532	100.0%	28.4%	$2,137	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$12,411	100.0%	28.4%	$3,522	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$1,840	100.0%	28.4%	$522	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$9,337	100.0%	28.4%	$2,650	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$2,697	100.0%	28.4%	$765	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$57,640	100.0%	28.4%	$16,357	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$5,813	100.0%	28.4%	$1,650	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$20,119	100.0%	28.4%	$5,709	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$3,818	100.0%	28.4%	$1,083	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1989	$21,267	100.0%	28.4%	$6,035	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	1989	$22,132	100.0%	28.4%	$6,281	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1989	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$32,644	100.0%	28.4%	$9,264	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$32,644	100.0%	28.4%	$9,264	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$22,173	100.0%	28.4%	$6,292	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$4,756	100.0%	28.4%	$1,350	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$4,515	100.0%	28.4%	$1,281	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$17,109	100.0%	28.4%	$4,855	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$16,374	100.0%	28.4%	$4,647	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$1,128	100.0%	28.4%	$320	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$15,363	100.0%	28.4%	$4,360	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$3,833	100.0%	28.4%	$1,088	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1989	$28,025	100.0%	28.4%	$7,953	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$58,499	100.0%	28.4%	$16,601	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$28,971	100.0%	28.4%	$8,221	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$10,446	100.0%	28.4%	$2,964	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$6,579	100.0%	28.4%	$1,867	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$24,235	100.0%	28.4%	$6,878	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$4,281	100.0%	28.4%	$1,215	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1989	$4,931	100.0%	28.4%	$1,399	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1989	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1989	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1989	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1989	$34,174	100.0%	28.4%	$9,698	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1989	$37,202	100.0%	28.4%	$10,557	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1989	$38,270	100.0%	28.4%	$10,860	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1989	$30,830	100.0%	28.4%	$8,749	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1989	$23,722	100.0%	28.4%	$6,732	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1990	$89,807	100.0%	28.4%	$25,485	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1990	$38,324	100.0%	28.4%	$10,876	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1990	$47,163	100.0%	28.4%	$13,384	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1990	$24,736	100.0%	28.4%	$7,019	Post 1986 trunk asset
Goulburn		PIPE	1800 mm diameter	1990	$14,708	100.0%	28.4%	$4,174	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$2,455	100.0%	28.4%	$697	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$4,980	100.0%	28.4%	$1,413	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$4,437	100.0%	28.4%	$1,259	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$11,394	100.0%	28.4%	$3,234	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$11,349	100.0%	28.4%	$3,221	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	1990	$12,484	100.0%	28.4%	$3,543	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$8,120	100.0%	28.4%	$2,304	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$4,215	100.0%	28.4%	$1,196	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$10,762	100.0%	28.4%	$3,054	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$3,776	100.0%	28.4%	$1,072	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$15,561	100.0%	28.4%	$4,416	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$3,168	100.0%	28.4%	$899	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$2,856	100.0%	28.4%	$811	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$14,358	100.0%	28.4%	$4,075	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$36,030	100.0%	28.4%	$10,225	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$1,726	100.0%	28.4%	$490	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$2,179	100.0%	28.4%	$618	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$3,112	100.0%	28.4%	$883	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$3,977	100.0%	28.4%	$1,129	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1990	$1,847	100.0%	28.4%	$524	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1990	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$30,011	100.0%	28.4%	$8,517	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$10,679	100.0%	28.4%	$3,031	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$41,417	100.0%	28.4%	$11,753	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$5,261	100.0%	28.4%	$1,493	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$6,401	100.0%	28.4%	$1,817	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$4,033	100.0%	28.4%	$1,145	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1990	$6,823	100.0%	28.4%	$1,936	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$6,153	100.0%	28.4%	$1,746	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$33,491	100.0%	28.4%	$9,504	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$3,444	100.0%	28.4%	$977	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$33,552	100.0%	28.4%	$9,521	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$38,038	100.0%	28.4%	$10,794	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$7,787	100.0%	28.4%	$2,210	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$37,906	100.0%	28.4%	$10,757	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$18,071	100.0%	28.4%	$5,128	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1990	$40,518	100.0%	28.4%	$11,498	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	1990	$412	100.0%	28.4%	$117	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	1990	$412	100.0%	28.4%	$117	Post 1986 trunk asset
Goulburn		PIPE	850 mm diameter	1990	$26,178	100.0%	28.4%	$7,429	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1990	$41,518	100.0%	28.4%	$11,782	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1991	$41,369	100.0%	28.4%	$11,740	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1991	$14,446	100.0%	28.4%	$4,099	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	1350 mm diameter	1991	$152,885	100.0%	28.4%	$43,386	Post 1986 trunk asset
Goulburn		PIPE	1400 mm diameter	1991	$13,412	100.0%	28.4%	$3,806	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	2400 mm diameter	1991	$2,499	100.0%	28.4%	$709	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1200 mm	1991	$3,728	100.0%	28.4%	$1,058	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1200 mm	1991	$3,728	100.0%	28.4%	$1,058	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1200 mm	1991	$3,728	100.0%	28.4%	$1,058	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1200 mm	1991	$3,728	100.0%	28.4%	$1,058	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1800 mm	1991	$5,888	100.0%	28.4%	$1,671	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1800 mm	1991	$5,888	100.0%	28.4%	$1,671	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 1800 mm	1991	$5,888	100.0%	28.4%	$1,671	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$1,598	100.0%	28.4%	$453	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$999	100.0%	28.4%	$284	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,700	100.0%	28.4%	$1,050	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,219	100.0%	28.4%	$1,197	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,735	100.0%	28.4%	$1,060	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,392	100.0%	28.4%	$1,246	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,804	100.0%	28.4%	$1,079	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$5,879	100.0%	28.4%	$1,668	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,389	100.0%	28.4%	$962	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,458	100.0%	28.4%	$981	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,253	100.0%	28.4%	$1,207	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,219	100.0%	28.4%	$1,197	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,357	100.0%	28.4%	$1,236	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,253	100.0%	28.4%	$1,207	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$3,908	100.0%	28.4%	$1,109	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$5,118	100.0%	28.4%	$1,452	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$12,380	100.0%	28.4%	$3,513	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$22,142	100.0%	28.4%	$6,284	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$25,988	100.0%	28.4%	$7,375	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,070	100.0%	28.4%	$1,155	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$10,053	100.0%	28.4%	$2,853	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$7,373	100.0%	28.4%	$2,092	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$14,185	100.0%	28.4%	$4,025	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,589	100.0%	28.4%	$1,302	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$2,870	100.0%	28.4%	$815	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,457	100.0%	28.4%	$1,265	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$13,663	100.0%	28.4%	$3,877	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$10,025	100.0%	28.4%	$2,845	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	1991	$15,371	100.0%	28.4%	$4,362	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$17,740	100.0%	28.4%	$5,034	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$2,625	100.0%	28.4%	$745	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$12,287	100.0%	28.4%	$3,487	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$1,473	100.0%	28.4%	$418	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$4,606	100.0%	28.4%	$1,307	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$35,881	100.0%	28.4%	$10,182	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1991	$16,426	100.0%	28.4%	$4,661	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1991	$207	100.0%	28.4%	$59	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	600 mm diameter	1991	$21,821	100.0%	28.4%	$6,192	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$7,707	100.0%	28.4%	$2,187	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$17,735	100.0%	28.4%	$5,033	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$8,125	100.0%	28.4%	$2,306	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$15,303	100.0%	28.4%	$4,343	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$15,860	100.0%	28.4%	$4,501	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$11,653	100.0%	28.4%	$3,307	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1991	$11,417	100.0%	28.4%	$3,240	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1991	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1991	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1991	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$32,786	100.0%	28.4%	$9,304	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$43,480	100.0%	28.4%	$12,339	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$65,265	100.0%	28.4%	$18,521	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$13,574	100.0%	28.4%	$3,852	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$4,194	100.0%	28.4%	$1,190	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$8,743	100.0%	28.4%	$2,481	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$4,718	100.0%	28.4%	$1,339	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1991	$15,467	100.0%	28.4%	$4,389	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	1991	$412	100.0%	28.4%	$117	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	1991	$412	100.0%	28.4%	$117	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1991	$11,301	100.0%	28.4%	$3,207	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1992	$16,413	100.0%	28.4%	$4,658	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1992	$19,843	100.0%	28.4%	$5,631	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	1992	$20,566	100.0%	28.4%	$5,836	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	1992	$8,803	100.0%	28.4%	$2,498	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	1992	$18,586	100.0%	28.4%	$5,274	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1500 mm x 750 mm	1992	$3,410	100.0%	28.4%	$968	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1992	$4,496	100.0%	28.4%	$1,276	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1992	$15,848	100.0%	28.4%	$4,497	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1992	$4,884	100.0%	28.4%	$1,386	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1992	$40,615	100.0%	28.4%	$11,526	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1992	$27,174	100.0%	28.4%	$7,712	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1992	$16,250	100.0%	28.4%	$4,611	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1992	$6,272	100.0%	28.4%	$1,780	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1992	$14,524	100.0%	28.4%	$4,122	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1992	$57,225	100.0%	28.4%	$16,239	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1992	$52,090	100.0%	28.4%	$14,782	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	750 mm diameter	1992	$36,947	100.0%	28.4%	$10,485	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1992	$23,924	100.0%	28.4%	$6,789	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1992	$6,514	100.0%	28.4%	$1,849	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1992	$56,565	100.0%	28.4%	$16,052	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1992	$14,802	100.0%	28.4%	$4,201	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1992	$43,487	100.0%	28.4%	$12,341	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1992	$4,954	100.0%	28.4%	$1,406	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1992	$6,408	100.0%	28.4%	$1,818	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1200 mm diameter	1993	$1,669	100.0%	28.4%	$474	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1993	$4,758	100.0%	28.4%	$1,350	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1993	$1,134	100.0%	28.4%	$322	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1993	$10,485	100.0%	28.4%	$2,975	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1993	$29,843	100.0%	28.4%	$8,469	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1993	$8,223	100.0%	28.4%	$2,334	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1993	$87,373	100.0%	28.4%	$24,795	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1993	$3,482	100.0%	28.4%	$988	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1993	$298	100.0%	28.4%	$84	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	1993	$16,334	100.0%	28.4%	$4,635	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	1993	$4,385	100.0%	28.4%	$1,244	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	1993	$24,848	100.0%	28.4%	$7,051	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	825 mm diameter	1993	$472	100.0%	28.4%	$134	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	1994	$859	100.0%	28.4%	$244	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$26,202	100.0%	28.4%	$7,436	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$3,320	100.0%	28.4%	$942	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$19,991	100.0%	28.4%	$5,673	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$28,211	100.0%	28.4%	$8,006	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$1,726	100.0%	28.4%	$490	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$18,881	100.0%	28.4%	$5,358	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$5,049	100.0%	28.4%	$1,433	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$2,282	100.0%	28.4%	$648	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$3,493	100.0%	28.4%	$991	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$8,282	100.0%	28.4%	$2,350	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$5,547	100.0%	28.4%	$1,574	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$6,740	100.0%	28.4%	$1,913	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$13,625	100.0%	28.4%	$3,866	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$4,668	100.0%	28.4%	$1,325	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$18,293	100.0%	28.4%	$5,191	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$18,722	100.0%	28.4%	$5,313	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	1994	$22,823	100.0%	28.4%	$6,477	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1994	$18,418	100.0%	28.4%	$5,227	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$15,549	100.0%	28.4%	$4,412	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$6,407	100.0%	28.4%	$1,818	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$9,634	100.0%	28.4%	$2,734	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$6,221	100.0%	28.4%	$1,765	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$4,875	100.0%	28.4%	$1,383	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1994	$4,378	100.0%	28.4%	$1,242	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1994	$22,245	100.0%	28.4%	$6,313	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	1994	$24,023	100.0%	28.4%	$6,817	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	1995	$859	100.0%	28.4%	$244	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$640	100.0%	28.4%	$182	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$38,603	100.0%	28.4%	$10,955	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$23,546	100.0%	28.4%	$6,682	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$3,448	100.0%	28.4%	$978	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$4,070	100.0%	28.4%	$1,155	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1995	$0	100.0%	28.4%	$0	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1995	$14,845	100.0%	28.4%	$4,213	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1995	$30,862	100.0%	28.4%	$8,758	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1995	$10,515	100.0%	28.4%	$2,984	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1995	$13,565	100.0%	28.4%	$3,849	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	1995	$16,976	100.0%	28.4%	$4,818	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$19,147	100.0%	28.4%	$5,434	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$11,143	100.0%	28.4%	$3,162	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$7,011	100.0%	28.4%	$1,989	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$26,343	100.0%	28.4%	$7,476	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$8,942	100.0%	28.4%	$2,538	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$6,686	100.0%	28.4%	$1,897	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$6,407	100.0%	28.4%	$1,818	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$25,257	100.0%	28.4%	$7,167	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$6,825	100.0%	28.4%	$1,937	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1995	$19,268	100.0%	28.4%	$5,468	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1995	$298	100.0%	0.0%	$0	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1995	$298	100.0%	0.0%	$0	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1996	$15,831	100.0%	100.0%	$15,831	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1996	$9,454	100.0%	100.0%	$9,454	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1996	$20,228	100.0%	100.0%	$20,228	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1996	$3,364	100.0%	100.0%	$3,364	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area | Goulburn

Year of Calculation | 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	1050 mm diameter	1996	$7,915	100.0%	100.0%	$7,915	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$3,610	100.0%	100.0%	$3,610	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$16,008	100.0%	100.0%	$16,008	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$2,694	100.0%	100.0%	$2,694	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$11,917	100.0%	100.0%	$11,917	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$2,230	100.0%	100.0%	$2,230	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$14,189	100.0%	100.0%	$14,189	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$21,475	100.0%	100.0%	$21,475	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1996	$25,376	100.0%	100.0%	$25,376	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1996	$48,211	100.0%	100.0%	$48,211	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1996	$7,893	100.0%	100.0%	$7,893	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1996	$32,695	100.0%	100.0%	$32,695	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	1996	$43,642	100.0%	100.0%	$43,642	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	1996	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1996	$43,330	100.0%	100.0%	$43,330	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1996	$5,891	100.0%	100.0%	$5,891	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1996	$51,120	100.0%	100.0%	$51,120	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1997	$5,706	100.0%	100.0%	$5,706	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1997	$19,573	100.0%	100.0%	$19,573	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1997	$4,496	100.0%	100.0%	$4,496	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1997	$2,090	100.0%	100.0%	$2,090	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1997	$10,583	100.0%	100.0%	$10,583	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1997	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$1,625	100.0%	100.0%	$1,625	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$1,636	100.0%	100.0%	$1,636	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,731	100.0%	100.0%	$4,731	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,253	100.0%	100.0%	$4,253	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,271	100.0%	100.0%	$4,271	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,253	100.0%	100.0%	$4,253	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,219	100.0%	100.0%	$4,219	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1998	$4,253	100.0%	100.0%	$4,253	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	1998	$56,381	100.0%	100.0%	$56,381	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1999	$29,485	100.0%	100.0%	$29,485	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1999	$42,138	100.0%	100.0%	$42,138	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	1999	$11,411	100.0%	100.0%	$11,411	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$8,763	100.0%	100.0%	$8,763	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$4,011	100.0%	100.0%	$4,011	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$7,729	100.0%	100.0%	$7,729	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$1,881	100.0%	100.0%	$1,881	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$4,945	100.0%	100.0%	$4,945	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	1999	$2,265	100.0%	100.0%	$2,265	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1500 mm x 450 mm	2000	$2,575	100.0%	100.0%	$2,575	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1500 mm x 450 mm	2000	$2,575	100.0%	100.0%	$2,575	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1800 mm x 450 mm	2000	$1,202	100.0%	100.0%	$1,202	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	1800 mm x 450 mm	2000	$1,202	100.0%	100.0%	$1,202	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$4,980	100.0%	100.0%	$4,980	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$71,859	100.0%	100.0%	$71,859	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$20,472	100.0%	100.0%	$20,472	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$13,141	100.0%	100.0%	$13,141	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$13,908	100.0%	100.0%	$13,908	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$41,463	100.0%	100.0%	$41,463	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2000	$26,368	100.0%	100.0%	$26,368	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$2,007	100.0%	100.0%	$2,007	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$21,034	100.0%	100.0%	$21,034	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$5,767	100.0%	100.0%	$5,767	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$9,219	100.0%	100.0%	$9,219	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$3,211	100.0%	100.0%	$3,211	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$32,941	100.0%	100.0%	$32,941	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$3,576	100.0%	100.0%	$3,576	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$1,878	100.0%	100.0%	$1,878	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area | **Goulburn**

Year of Calculation | **2016**

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	525 mm diameter	2000	$14,275	100.0%	100.0%	$14,275	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2000	$36,958	100.0%	100.0%	$36,958	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$26,232	100.0%	100.0%	$26,232	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$152,655	100.0%	100.0%	$152,655	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$10,005	100.0%	100.0%	$10,005	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$6,012	100.0%	100.0%	$6,012	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$1,862	100.0%	100.0%	$1,862	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$3,426	100.0%	100.0%	$3,426	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$3,296	100.0%	100.0%	$3,296	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$4,972	100.0%	100.0%	$4,972	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$21,292	100.0%	100.0%	$21,292	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2000	$1,871	100.0%	100.0%	$1,871	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2000	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2000	$25,512	100.0%	100.0%	$25,512	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2000	$8,754	100.0%	100.0%	$8,754	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2000	$20,133	100.0%	100.0%	$20,133	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2000	$29,464	100.0%	100.0%	$29,464	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	900 mm diameter	2000	$476	100.0%	100.0%	$476	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	900 mm diameter	2000	$476	100.0%	100.0%	$476	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2001	$1,401	100.0%	100.0%	$1,401	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2001	$6,778	100.0%	100.0%	$6,778	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	525 mm diameter	2001	$211	100.0%	100.0%	$211	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2002	$1,456	100.0%	100.0%	$1,456	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2002	$26,454	100.0%	100.0%	$26,454	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2002	$1,729	100.0%	100.0%	$1,729	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2002	$4,219	100.0%	100.0%	$4,219	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2002	$3,800	100.0%	100.0%	$3,800	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2002	$20,678	100.0%	100.0%	$20,678	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2002	$17,923	100.0%	100.0%	$17,923	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2002	$9,297	100.0%	100.0%	$9,297	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2002	$14,786	100.0%	100.0%	$14,786	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	675 mm diameter	2002	$4,275	100.0%	100.0%	$4,275	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2002	$16,849	100.0%	100.0%	$16,849	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2002	$8,457	100.0%	100.0%	$8,457	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2002	$15,137	100.0%	100.0%	$15,137	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2002	$4,969	100.0%	100.0%	$4,969	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2002	$4,363	100.0%	100.0%	$4,363	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2002	$7,664	100.0%	100.0%	$7,664	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	2002	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2002	$10,329	100.0%	100.0%	$10,329	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2003	$16,490	100.0%	100.0%	$16,490	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	2003	$859	100.0%	100.0%	$859	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	2003	$859	100.0%	100.0%	$859	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2003	$16,703	100.0%	100.0%	$16,703	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2003	$20,794	100.0%	100.0%	$20,794	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2003	$5,083	100.0%	100.0%	$5,083	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2003	$5,187	100.0%	100.0%	$5,187	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2003	$4,288	100.0%	100.0%	$4,288	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2003	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2003	$12,060	100.0%	100.0%	$12,060	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2003	$12,024	100.0%	100.0%	$12,024	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2003	$6,421	100.0%	100.0%	$6,421	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2003	$13,571	100.0%	100.0%	$13,571	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2003	$4,829	100.0%	100.0%	$4,829	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2003	$23,158	100.0%	100.0%	$23,158	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2003	$22,341	100.0%	100.0%	$22,341	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2003	$5,804	100.0%	100.0%	$5,804	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2003	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2003	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	750 mm diameter	2003	$584	100.0%	100.0%	$584	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	750 mm diameter	2003	$584	100.0%	100.0%	$584	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2003	$15,537	100.0%	100.0%	$15,537	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2003	$0	100.0%	100.0%	$0	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area | Goulburn

Year of Calculation | 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		Pipe Culvert Headwall	750 mm diameter	2003	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	2003	$3,566	100.0%	100.0%	$3,566	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	825 mm diameter	2003	$472	100.0%	100.0%	$472	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2003	$56,189	100.0%	100.0%	$56,189	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2003	$56,189	100.0%	100.0%	$56,189	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2003	$36,371	100.0%	100.0%	$36,371	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2100 mm x 75 mm	2004	$219	100.0%	100.0%	$219	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$3,095	100.0%	100.0%	$3,095	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$6,225	100.0%	100.0%	$6,225	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$16,620	100.0%	100.0%	$16,620	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$2,549	100.0%	100.0%	$2,549	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$1,819	100.0%	100.0%	$1,819	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$4,032	100.0%	100.0%	$4,032	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$1,985	100.0%	100.0%	$1,985	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$7,608	100.0%	100.0%	$7,608	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2004	$8,196	100.0%	100.0%	$8,196	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2004	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2004	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2004	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	525 mm diameter	2004	$211	100.0%	100.0%	$211	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2004	$94,013	100.0%	100.0%	$94,013	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2005	$4,015	100.0%	100.0%	$4,015	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2005	$1,055	100.0%	100.0%	$1,055	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2005	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2005	$2,368	100.0%	100.0%	$2,368	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2005	$27,346	100.0%	100.0%	$27,346	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2005	$9,713	100.0%	100.0%	$9,713	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2005	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2005	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2006	$57,958	100.0%	100.0%	$57,958	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$7,532	100.0%	100.0%	$7,532	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$25,569	100.0%	100.0%	$25,569	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$2,234	100.0%	100.0%	$2,234	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	450 mm diameter	2006	$17,837	100.0%	100.0%	$17,837	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$28,211	100.0%	100.0%	$28,211	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$24,795	100.0%	100.0%	$24,795	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$8,645	100.0%	100.0%	$8,645	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$0	100.0%	100.0%	$0	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2006	$18,466	100.0%	100.0%	$18,466	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$22,715	100.0%	100.0%	$22,715	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$30,445	100.0%	100.0%	$30,445	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$26,307	100.0%	100.0%	$26,307	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$7,429	100.0%	100.0%	$7,429	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$5,177	100.0%	100.0%	$5,177	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$2,556	100.0%	100.0%	$2,556	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$33,583	100.0%	100.0%	$33,583	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$34,563	100.0%	100.0%	$34,563	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$7,312	100.0%	100.0%	$7,312	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$22,715	100.0%	100.0%	$22,715	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$37,235	100.0%	100.0%	$37,235	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2006	$2,581	100.0%	100.0%	$2,581	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2006	$39,116	100.0%	100.0%	$39,116	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2006	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$38,813	100.0%	100.0%	$38,813	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$34,620	100.0%	100.0%	$34,620	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$44,293	100.0%	100.0%	$44,293	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$43,873	100.0%	100.0%	$43,873	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$108,368	100.0%	100.0%	$108,368	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$110,031	100.0%	100.0%	$110,031	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2006	$29,981	100.0%	100.0%	$29,981	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2007	$36,774	100.0%	100.0%	$36,774	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2007	$35,850	100.0%	100.0%	$35,850	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2007	$42,578	100.0%	100.0%	$42,578	Post 1986 trunk asset
Goulburn		PIPE	1050 mm diameter	2007	$29,727	100.0%	100.0%	$29,727	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1050 mm diameter	2007	$859	100.0%	100.0%	$859	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	2007	$58,737	100.0%	100.0%	$58,737	Post 1986 trunk asset
Goulburn		PIPE	1200 mm diameter	2007	$28,462	100.0%	100.0%	$28,462	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	2007	$66,865	100.0%	100.0%	$66,865	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	2007	$131,691	100.0%	100.0%	$131,691	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	2007	$117,182	100.0%	100.0%	$117,182	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	2007	$69,608	100.0%	100.0%	$69,608	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	1350 mm diameter	2007	$32,885	100.0%	100.0%	$32,885	Post 1986 trunk asset
Goulburn		PIPE	1350 mm diameter	2007	$57,287	100.0%	100.0%	$57,287	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	1350 mm diameter	2007	$1,062	100.0%	100.0%	$1,062	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 750 mm	2007	$2,508	100.0%	100.0%	$2,508	Post 1986 trunk asset
Goulburn		Box Culvert Headwall	2400 mm x 750 mm	2007	$2,508	100.0%	100.0%	$2,508	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,468	100.0%	100.0%	$3,468	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$23,833	100.0%	100.0%	$23,833	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$9,212	100.0%	100.0%	$9,212	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,078	100.0%	100.0%	$3,078	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$26,427	100.0%	100.0%	$26,427	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$10,720	100.0%	100.0%	$10,720	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$1,037	100.0%	100.0%	$1,037	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,545	100.0%	100.0%	$3,545	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,673	100.0%	100.0%	$3,673	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$9,271	100.0%	100.0%	$9,271	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,458	100.0%	100.0%	$3,458	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$2,746	100.0%	100.0%	$2,746	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$34,546	100.0%	100.0%	$34,546	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$31,849	100.0%	100.0%	$31,849	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$3,493	100.0%	100.0%	$3,493	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$5,568	100.0%	100.0%	$5,568	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2007	$6,225	100.0%	100.0%	$6,225	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2007	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2007	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2007	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$6,674	100.0%	100.0%	$6,674	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$8,576	100.0%	100.0%	$8,576	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$6,396	100.0%	100.0%	$6,396	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$28,547	100.0%	100.0%	$28,547	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$6,016	100.0%	100.0%	$6,016	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$2,007	100.0%	100.0%	$2,007	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2007	$25,565	100.0%	100.0%	$25,565	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2007	$26,478	100.0%	100.0%	$26,478	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2007	$7,391	100.0%	100.0%	$7,391	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2007	$6,031	100.0%	100.0%	$6,031	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2007	$6,960	100.0%	100.0%	$6,960	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2007	$4,443	100.0%	100.0%	$4,443	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2007	$298	100.0%	100.0%	$298	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Goulburn apart from those in subcatchments 31 & 32 which were assigned to Marys Mount

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Goulburn		PIPE	675 mm diameter	2007	$26,009	100.0%	100.0%	$26,009	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2007	$27,571	100.0%	100.0%	$27,571	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2007	$6,169	100.0%	100.0%	$6,169	Post 1986 trunk asset
Goulburn		PIPE	675 mm diameter	2007	$13,669	100.0%	100.0%	$13,669	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$16,275	100.0%	100.0%	$16,275	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$20,395	100.0%	100.0%	$20,395	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$47,382	100.0%	100.0%	$47,382	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$9,682	100.0%	100.0%	$9,682	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$9,682	100.0%	100.0%	$9,682	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$13,387	100.0%	100.0%	$13,387	Post 1986 trunk asset
Goulburn		PIPE	750 mm diameter	2007	$8,319	100.0%	100.0%	$8,319	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	2007	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	2007	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	2007	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	750 mm diameter	2007	$412	100.0%	100.0%	$412	Post 1986 trunk asset
Goulburn		PIPE	825 mm diameter	2007	$7,308	100.0%	100.0%	$7,308	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2007	$20,632	100.0%	100.0%	$20,632	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2007	$40,607	100.0%	100.0%	$40,607	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2007	$20,632	100.0%	100.0%	$20,632	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2007	$86,966	100.0%	100.0%	$86,966	Post 1986 trunk asset
Goulburn		PIPE	900 mm diameter	2007	$0	100.0%	100.0%	$0	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	900 mm diameter	2007	$476	100.0%	100.0%	$476	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	525 mm diameter	2008	$211	100.0%	100.0%	$211	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	525 mm diameter	2008	$211	100.0%	100.0%	$211	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2009	$6,225	100.0%	100.0%	$6,225	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2009	$4,378	100.0%	100.0%	$4,378	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2009	$22,610	100.0%	100.0%	$22,610	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2009	$8,301	100.0%	100.0%	$8,301	Post 1986 trunk asset
Goulburn		PIPE	600 mm diameter	2009	$14,913	100.0%	100.0%	$14,913	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	600 mm diameter	2009	$298	100.0%	100.0%	$298	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2010	$3,845	100.0%	100.0%	$3,845	Post 1986 trunk asset
Goulburn		Pipe Culvert Headwall	450 mm diameter	2010	$207	100.0%	100.0%	$207	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2011	$5,104	100.0%	100.0%	$5,104	Post 1986 trunk asset
Goulburn		PIPE	450 mm diameter	2011	$5,256	100.0%	100.0%	$5,256	Post 1986 trunk asset
Goulburn		PIPE	525 mm diameter	2011	$5,181	100.0%	100.0%	$5,181	Post 1986 trunk asset

Existing Capital Costs - Stormwater

Service Area | **Marys Mount**

Year of Calculation | **2016**

Below list is extracted from GMC database; it includes all assets listed as being in subcatchments 31 & 32

Assets <= 375 mm diameter are classified as reticulation assets

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Marys Mount		PIPE	450 mm diameter	1986	$13,303	100.0%	35.3%	$4,693	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	1986	$15,531	100.0%	35.3%	$5,480	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	1986	$32,026	100.0%	35.3%	$11,299	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	1500 mm diameter	2004	$1,154	100.0%	100.0%	$1,154	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	1500 mm diameter	2004	$1,154	100.0%	100.0%	$1,154	Post 1986; trunk asset
Marys Mount		PIPE	1500 mm diameter	2004	$30,679	100.0%	100.0%	$30,679	Post 1986; trunk asset
Marys Mount		PIPE	2400 mm diameter	2004	$64,756	100.0%	100.0%	$64,756	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2004	$2,808	100.0%	100.0%	$2,808	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	525 mm diameter	2004	$211	100.0%	100.0%	$211	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$7,970	100.0%	100.0%	$7,970	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$12,493	100.0%	100.0%	$12,493	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$33,114	100.0%	100.0%	$33,114	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$4,884	100.0%	100.0%	$4,884	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$18,405	100.0%	100.0%	$18,405	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$7,750	100.0%	100.0%	$7,750	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$17,273	100.0%	100.0%	$17,273	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$8,857	100.0%	100.0%	$8,857	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$9,560	100.0%	100.0%	$9,560	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2004	$18,265	100.0%	100.0%	$18,265	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	600 mm diameter	2004	$298	100.0%	100.0%	$298	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	600 mm diameter	2004	$298	100.0%	100.0%	$298	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$10,349	100.0%	100.0%	$10,349	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$5,474	100.0%	100.0%	$5,474	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$8,571	100.0%	100.0%	$8,571	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$4,717	100.0%	100.0%	$4,717	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$9,569	100.0%	100.0%	$9,569	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2004	$20,243	100.0%	100.0%	$20,243	Post 1986; trunk asset
Marys Mount		PIPE	675 mm diameter	2004	$17,662	100.0%	100.0%	$17,662	Post 1986; trunk asset
Marys Mount		PIPE	900 mm diameter	2004	$136,555	100.0%	100.0%	$136,555	Post 1986; trunk asset
Marys Mount		PIPE	900 mm diameter	2004	$212,710	100.0%	100.0%	$212,710	Post 1986; trunk asset
Marys Mount		Pipe	450 mm diameter	2005	$23,574	100.0%	100.0%	$23,574	Post 1986; trunk asset
Marys Mount		Pipe	450 mm diameter	2005	$7,518	100.0%	100.0%	$7,518	Post 1986; trunk asset
Marys Mount		Pipe	450 mm diameter	2005	$4,651	100.0%	100.0%	$4,651	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	450 mm diameter	2006	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2006	$2,825	100.0%	100.0%	$2,825	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2007	$4,219	100.0%	100.0%	$4,219	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2007	$4,301	100.0%	100.0%	$4,301	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2007	$25,364	100.0%	100.0%	$25,364	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2007	$19,465	100.0%	100.0%	$19,465	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2007	$17,980	100.0%	100.0%	$17,980	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2007	$18,461	100.0%	100.0%	$18,461	Post 1986; trunk asset

Existing Capital Costs - Stormwater

Service Area Marys Mount

Year of Calculation 2016

Below list is extracted from GMC database; it includes all assets listed as being in subcatchments 31 & 32

Assets <= 375 mm diameter are classified as reticulation assets

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Marys Mount		PIPE	525 mm diameter	2007	$16,615	100.0%	100.0%	$16,615	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2007	$3,624	100.0%	100.0%	$3,624	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2007	$11,486	100.0%	100.0%	$11,486	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2007	$5,040	100.0%	100.0%	$5,040	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2007	$6,816	100.0%	100.0%	$6,816	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2007	$9,365	100.0%	100.0%	$9,365	Post 1986; trunk asset
Marys Mount		Box Culvert Headwall	1200 mm x 600 mm	2008	$1,327	100.0%	100.0%	$1,327	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2008	$2,981	100.0%	100.0%	$2,981	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2008	$15,703	100.0%	100.0%	$15,703	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2008	$2,559	100.0%	100.0%	$2,559	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2008	$12,826	100.0%	100.0%	$12,826	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2008	$20,319	100.0%	100.0%	$20,319	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2008	$5,029	100.0%	100.0%	$5,029	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2008	$4,888	100.0%	100.0%	$4,888	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2008	$5,711	100.0%	100.0%	$5,711	Post 1986; trunk asset
Marys Mount		Box Culvert Headwall	1200 mm x 600 mm	2010	$1,327	100.0%	100.0%	$1,327	Post 1986; trunk asset
Marys Mount		Box Culvert Headwall	1200 mm x 900 mm x 2 cells	2010	$2,590	100.0%	100.0%	$2,590	Post 1986; trunk asset
Marys Mount		Box Culvert Headwall	1200 mm x 900 mm x 2 cells	2010	$2,590	100.0%	100.0%	$2,590	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$12,020	100.0%	100.0%	$12,020	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$8,156	100.0%	100.0%	$8,156	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$4,271	100.0%	100.0%	$4,271	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$5,094	100.0%	100.0%	$5,094	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$3,112	100.0%	100.0%	$3,112	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$5,135	100.0%	100.0%	$5,135	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$8,628	100.0%	100.0%	$8,628	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$8,403	100.0%	100.0%	$8,403	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$3,112	100.0%	100.0%	$3,112	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2010	$3,607	100.0%	100.0%	$3,607	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2011	$12,380	100.0%	100.0%	$12,380	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2011	$14,213	100.0%	100.0%	$14,213	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2011	$5,104	100.0%	100.0%	$5,104	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2011	$9,492	100.0%	100.0%	$9,492	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2011	$4,977	100.0%	100.0%	$4,977	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2011	$14,342	100.0%	100.0%	$14,342	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2011	$10,748	100.0%	100.0%	$10,748	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2011	$18,710	100.0%	100.0%	$18,710	Post 1986; trunk asset
Marys Mount		PIPE	650 mm diameter	2011	$4,877	100.0%	100.0%	$4,877	Post 1986; trunk asset
Marys Mount		PIPE	675 mm diameter	2011	$6,955	100.0%	100.0%	$6,955	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2012	$17,650	100.0%	100.0%	$17,650	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2012	$7,041	100.0%	100.0%	$7,041	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2012	$5,284	100.0%	100.0%	$5,284	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2012	$3,282	100.0%	100.0%	$3,282	Post 1986; trunk asset

Existing Capital Costs - Stormwater

Service Area | Marys Mount

Year of Calculation | 2016

Below list is extracted from GMC database; it includes all assets listed as being in subcatchments 31 & 32

Assets <= 375 mm diameter are classified as reticulation assets

Assumptions:

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Marys Mount		PIPE	600 mm diameter	2012	$8,961	100.0%	100.0%	$8,961	Post 1986; trunk asset
Marys Mount		Box Culvert Headwall	1200 mm x 300 mm	2013	$824	100.0%	100.0%	$824	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2013	$23,169	100.0%	100.0%	$23,169	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2013	$13,348	100.0%	100.0%	$13,348	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2013	$7,712	100.0%	100.0%	$7,712	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2013	$15,216	100.0%	100.0%	$15,216	Post 1986; trunk asset
Marys Mount		PIPE	450 mm diameter	2013	$18,985	100.0%	100.0%	$18,985	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$11,779	100.0%	100.0%	$11,779	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$10,017	100.0%	100.0%	$10,017	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$7,714	100.0%	100.0%	$7,714	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$11,045	100.0%	100.0%	$11,045	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$7,986	100.0%	100.0%	$7,986	Post 1986; trunk asset
Marys Mount		PIPE	525 mm diameter	2013	$11,915	100.0%	100.0%	$11,915	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2013	$19,718	100.0%	100.0%	$19,718	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2013	$15,103	100.0%	100.0%	$15,103	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2013	$50,063	100.0%	100.0%	$50,063	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2013	$9,053	100.0%	100.0%	$9,053	Post 1986; trunk asset
Marys Mount		PIPE	600 mm diameter	2013	$5,335	100.0%	100.0%	$5,335	Post 1986; trunk asset
Marys Mount		PIPE	675 mm diameter	2013	$22,751	100.0%	100.0%	$22,751	Post 1986; trunk asset
Marys Mount		PIPE	675 mm diameter	2013	$18,589	100.0%	100.0%	$18,589	Post 1986; trunk asset
Marys Mount		Pipe Culvert Headwall	825 mm diameter	2013	$472	100.0%	100.0%	$472	Post 1986; trunk asset
Marys Mount		PIPE	825 mm diameter	2013	$28,868	100.0%	100.0%	$28,868	Post 1986; trunk asset
Marys Mount		PIPE	825 mm diameter	2013	$7,169	100.0%	100.0%	$7,169	Post 1986; trunk asset
Marys Mount		PIPE	650 mm diameter	2014	$6,589	100.0%	100.0%	$6,589	Post 1986; trunk asset
Marys Mount		PIPE	650 mm diameter	2014	$9,054	100.0%	100.0%	$9,054	Post 1986; trunk asset
Marys Mount		PIPE	650 mm diameter	2014	$3,813	100.0%	100.0%	$3,813	Post 1986; trunk asset

Existing Capital Costs - Stormwater

Service Area Marulan

Year of Calculation 2016

Assumptions:

Below list is extracted from GMC database; it includes all assets listed as being in Marulan

Assets <= 375 mm diameter are classified as reticulation assets

Asset Service Area(s)	Asset No.	Asset Purpose	Asset Details	Commissioning Date	MEERA	Shared Proportion	Growth Proportion	Recoverable MEERA	Justification
Marulan		Box Culvert Headwall	1500mm W x 450mm H x 4 cells	1996	$3,410	100.0%	100.0%	$3,410	Post 1986; trunk asset
Marulan		Box Culvert Headwall	1500mm W x 450mm H x 4 cells	1996	$3,410	100.0%	100.0%	$3,410	Post 1986; trunk asset
Marulan		Pipe Culvert Headwall	450 mm diameter	1996	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	1996	$12,878	100.0%	100.0%	$12,878	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	1996	$3,569	100.0%	100.0%	$3,569	Post 1986; trunk asset
Marulan		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Pipe Culvert Headwall	450 mm diameter	1998	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	1998	$3,392	100.0%	100.0%	$3,392	Post 1986; trunk asset
Marulan		Culverts	450 mm diameter	2001	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Culverts	450 mm diameter	2001	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2001	$2,836	100.0%	100.0%	$2,836	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2001	$25,806	100.0%	100.0%	$25,806	Post 1986; trunk asset
Marulan		Pipes	500 mm diameter	2001	$8,928	100.0%	100.0%	$8,928	Post 1986; trunk asset
Marulan		Pipes	525 mm diameter	2001	$16,735	100.0%	100.0%	$16,735	Post 1986; trunk asset
Marulan		Culverts	600 mm diameter	2001	$298	100.0%	100.0%	$298	Post 1986; trunk asset
Marulan		Pipes	600 mm diameter	2001	$20,150	100.0%	100.0%	$20,150	Post 1986; trunk asset
Marulan		Culverts	750 mm diameter	2001	$412	100.0%	100.0%	$412	Post 1986; trunk asset
Marulan		Culverts	750 mm diameter	2001	$412	100.0%	100.0%	$412	Post 1986; trunk asset
Marulan		Pipes	750 mm diameter	2001	$7,252	100.0%	100.0%	$7,252	Post 1986; trunk asset
Marulan		Culverts	450 mm diameter	2002	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Culverts	450 mm diameter	2002	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Culverts	450 mm diameter	2002	$207	100.0%	100.0%	$207	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2002	$2,991	100.0%	100.0%	$2,991	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2002	$4,565	100.0%	100.0%	$4,565	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2002	$24,798	100.0%	100.0%	$24,798	Post 1986; trunk asset
Marulan		Pipes	400 mm diameter	2003	$4,265	100.0%	100.0%	$4,265	Post 1986; trunk asset
Marulan		Pipes	400 mm diameter	2003	$12,437	100.0%	100.0%	$12,437	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2003	$2,829	100.0%	100.0%	$2,829	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2003	$4,554	100.0%	100.0%	$4,554	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2003	$16,665	100.0%	100.0%	$16,665	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2003	$3,126	100.0%	100.0%	$3,126	Post 1986; trunk asset
Marulan		Pipes	450 mm diameter	2003	$4,091	100.0%	100.0%	$4,091	Post 1986; trunk asset
Marulan		Culverts	600 mm diameter	2003	$298	100.0%	100.0%	$298	Post 1986; trunk asset
Marulan		Pipes	600 mm diameter	2003	$9,313	100.0%	100.0%	$9,313	Post 1986; trunk asset

17 Future Capital Works Program

Future Capital Works Program - Water Supply

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Goulburn	Trunk Watermian	Cathcart St 375mm	2019/20	$220,000	100.0%	100%	$220,000	Trunk watermain; new growth works within next 10 years.
Goulburn, Marys Mount	Treatment	Main building repaint, inside revamp, concrete repairs, truck turning circle	2022/23	$250,000	61.5%	100%	$153,750	Renewal, existing asset pre 1986
Goulburn, Marys Mount	Treatment	Telemetry Upgrade	2016/17	$120,000	61.5%	100%	$73,800	Renewal, existing asset pre 1986
Goulburn, Marys Mount	Treatment	Raw Water Augmentation	2016/17	$150,000	61.5%	50%	$46,125	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Raw Water Augmentation	2017/18	$950,000	61.5%	50%	$292,125	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Raw Water Augmentation	2020/21	$740,000	61.5%	50%	$227,550	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Washwater and Sludge Upgrade	2017/18	$150,000	61.5%	50%	$46,125	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Washwater and Sludge Upgrade	2018/19	$1,800,000	61.5%	50%	$553,500	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Washwater and Sludge Upgrade	2022/23	$1,700,000	61.5%	50%	$522,750	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2017/18	$100,000	61.5%	100%	$61,500	New growth works within next 10 years
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2018/19	$2,000,000	61.5%	100%	$1,230,000	New growth works within next 10 years
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2019/20	$300,000	61.5%	100%	$184,500	New growth works within next 10 years

Future Capital Works Program - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Goulburn, Marys Mount	Treatment	Goulburn WTP - Main building repaint, inside revamp, concrete repairs, truck turning circle	2022/23	$250,000	38.5%	100%	$96,250	Renewal, existing asset pre 1986
Goulburn, Marys Mount	Treatment	Goulburn WTP - Telemetry Upgrade	2016/17	$120,000	38.5%	100%	$46,200	Renewal, existing asset pre 1986
Goulburn, Marys Mount	Treatment	Goulburn WTP - Raw Water Augmentation	2016/17	$150,000	38.5%	50%	$28,875	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Goulburn WTP - Raw Water Augmentation	2017/18	$950,000	38.5%	50%	$182,875	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Goulburn WTP - Raw Water Augmentation	2020/21	$740,000	38.5%	50%	$142,450	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Goulburn WTP - Washwater and Sludge Upgrade	2017/18	$150,000	38.5%	50%	$28,875	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Goulburn WTP - Washwater and Sludge Upgrade	2018/19	$1,800,000	38.5%	50%	$346,500	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Treatment	Goulburn WTP - Washwater and Sludge Upgrade	2022/23	$1,700,000	38.5%	50%	$327,250	New growth works within next 10 years; GMC estimated 50% for improved LOS and 50% for growth
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2017/18	$100,000	38.5%	100%	$38,500	New growth works within next 10 years
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2018/19	$2,000,000	38.5%	100%	$770,000	New growth works within next 10 years
Goulburn, Marys Mount	Reservoir	Addison Street Reservoir No2 - Construction	2019/20	$300,000	38.5%	100%	$115,500	New growth works within next 10 years

Future Capital Works Program - Water Supply

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Marulan	Pump Station	Marulan PS - Pontoon Repairs / Replacement investigation/sandbaging of banks/VDS of 2nd pump & drain to river/ Marulan rising main replacement investigation	2020/21	$180,000	100%	0%	$0	Renewal - exisitng asset post 1986; excluded
Marulan	Pump Station	Marulan PS - Pontoon Works/ Marulan rising main replacement stage 1	2020/21	$300,000	100%	0%	$0	Renewal - exisitng asset post 1986; excluded
Marulan	Pump Station	Marulan PS - Marulan Rising Main Replacement to Balance Tank	2018/19	$150,000	100%	0%	$0	Renewal - exisitng asset post 1986; excluded
Marulan	Pump Station	Marulan PS - Marulan Rising Main Replacement to Balance Tank	2019/20	$150,000	100%	0%	$0	Renewal - exisitng asset post 1986; excluded
Marulan	Trunk Main	Marulan treated Main - Treatment Plant to 1.5km	2017/18	$500,000	100%	0%	$0	Renewal - exisitng asset post 1986; excluded
Marulan	Treatment	Marulan Water Treatment Plant - WTP Upgrades	2021/22	$150,000	100%	100%	$150,000	New growth works required within next 10 years
Marulan	Treatment	Marulan Water Treatment Plant - WTP Upgrades	2022/23	$1,400,000	100%	100%	$1,400,000	New growth works required within next 10 years
Marulan	Treatment	Marulan Water Treatment Plant - WTP Upgrades	2023/24	$150,000	100%	100%	$150,000	New growth works required within next 10 years
Marulan	Treatment	Marulan Water Treatment Plant - Marulan Telemetry Upgrade	2020/21	$120,000	100%	0%	$0	Renewal - existing asset post 1986, excluded
Marulan	Treatment	Marulan Water Treatment Plant - Membrane Replacement	2018/19	$150,000	100%	0%	$0	Renewal - existing asset post 1986, excluded
Marulan	Treatment	Marulan Water Treatment Plant - Membrane Replacement	2019/20	$150,000	100%	0%	$0	Renewal - existing asset post 1986, excluded
Marulan	Treatment	Marulan Water Treatment Plant - Membrane Replacement	2023/24	$150,000	100%	0%	$0	Renewal - existing asset post 1986, excluded

Future Capital Works Program - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Goulburn	Trunkmain	Sloane St - Glebe st to EastGrove main in-let upsizing (375 - 450)	2021/22	$1,099,000	100%	100%	$1,099,000	New growth works within next 10 years.
Goulburn	Trunkmain	Avoca St SPS to Kenmore bridge gravity main	2020/21	$550,000	100%	100%	$550,000	New growth works within next 10 years
Goulburn	Trunkmain	North Goulburn SPS to Bradley St rising main	2025/26	$220,000	100%	100%	$220,000	New growth works within next 10 years
Goulburn	Trunkmain	Design Rising Main SPS to STP	2020/21	$50,000	100%	100%	$50,000	New growth works within next 10 years
Goulburn	Trunkmain	875 m from SPS	2023/24	$800,000	100%	100%	$800,000	New growth works within next 10 years
Goulburn	Trunkmain	875 m to 1750m	2025/26	$800,000	100%	100%	$800,000	New growth works within next 10 years
Goulburn	Pump Station	Nth Goulburn Pumping Station Rising Main and Pump Capacity	2017/18	$350,000	100%	100%	$350,000	New growth works within next 10 years
Goulburn	Pump Station	Nth Goulburn Pumping Station Rising Main and Pump Capacity	2018/19	$200,000	100%	100%	$200,000	New growth works within next 10 years
Goulburn	Pump Station	Copford Road SPS additional storage/pump upgrade	2021/22	$200,000	100%	100%	$200,000	New growth works within next 10 years
Goulburn	Pump Station	North Goulburn SPS additional storage/pump upgrade	2022/23	$250,000	100%	100%	$250,000	New growth works within next 10 years
Goulburn	Pump Station	Rec Area SPS additional storage/pump upgrade/standby pump	2022/23	$200,000	100%	100%	$200,000	New growth works within next 10 years
Goulburn	Pump Station	Avoca St renewal	2020/21	$100,000	100%	100%	$100,000	Renewal; existing asset is pre-1986
Goulburn, Marys Mount	Treatment	STWRIS Stage 1 Construction	2016/17	$6,409,000	44%	70%	$1,991,917	New growth works within next 10 years. Cost is for components of the plant that increase capacity to 40,000 EP
Goulburn, Marys Mount	Treatment	STWRIS Stage 1 Construction	2017/18	$3,302,000	44%	70%	$1,026,262	(refer separate calculation provided by GMC)
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2016/17	$250,000	44%	100%	$111,000	New growth works within next 10 years.
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2017/18	$2,500,000	44%	100%	$1,110,000	New growth works within next 10 years.
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2018/19	$4,000,000	44%	100%	$1,776,000	New growth works within next 10 years.

Future Capital Works Program - Sewerage

Service Area 2016

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Goulburn, Marys Mount	Treatment	STWRIS Stage 1 Construction	2016/17	$6,409,000	55.6%	70%	$2,494,383	New growth works within next 10 years. Cost is for components of the plant that
Goulburn, Marys Mount	Treatment	STWRIS Stage 1 Construction	2017/18	$3,302,000	55.6%	70%	$1,285,138	increase capacity to 40,000 EP (refer separate calculation provided by GMC)
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2016/17	$250,000	55.6%	100%	$139,000	New growth works within next 10 years. Include portion that is for new growth
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2017/18	$2,500,000	55.6%	100%	$1,390,000	New growth works within next 10 years. Include portion that is for new growth
Goulburn, Marys Mount	Treatment	STWRIS Stage 2 - Reuse Irrigation Scheme - Detailed Design	2018/19	$4,000,000	55.6%	100%	$2,224,000	New growth works within next 10 years. Include portion that is for new growth
Goulburn, Marys Mount	Rising Main	Kenmore Bridge SPS to WWTP rising main	2024/25	$1,100,000	55.6%	100%	$611,600	New growth works within next 10 years
Goulburn, Marys Mount	Pump Station	Kenmore Bridge Rising Main and Pumping Capacity - Construction	2019/20	$1,500,000	55.6%	100%	$834,000	New growth works within next 10 years

Future Capital Works Program - Sewerage

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Marulan	Pump Station	Marulan Pump Stations renewals	2020/21	$250,000	100%	0%	$0	Renewal -exclude as existing assets post 1986
Marulan	Pump Station	Bonnet Park Upgrade	2023/24	$400,000	100%	100%	$400,000	New growth works within next 10 years
Marulan	Treatment	Marulan WWTP Upgrade Staged	2017/18	$100,000	100%	35%	$35,280	New growth works within next 10 years. Excludes improved LOS compoenent
Marulan	Treatment	Marulan WWTP Upgrade Staged	2018/19	$350,000	100%	35%	$123,480	New growth works within next 10 years. Excludes improved LOS compoenent
Marulan	Treatment	Marulan WWTP Upgrade Staged	2019/20	$2,500,000	100%	35%	$882,003	New growth works within next 10 years. Excludes improved LOS compoenent

Future Capital Works Program - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Goulburn	Drainage	Drainage Upgrade	2016/17	$301,500	100.0%	100%	$301,500	Future assets within next 5 years
Goulburn	Drainage	Drainage Upgrade	2017/18	$301,500	100.0%	100%	$301,500	Future assets within next 5 years
Goulburn	Drainage	Drainage Upgrade	2018/19	$301,500	100.0%	100%	$301,500	Future assets within next 5 years
Goulburn	Drainage	Drainage Upgrade	2019/20	$301,500	100.0%	100%	$301,500	Future assets within next 5 years
Goulburn	Drainage	Drainage Upgrade	2020/21	$301,500	100.0%	100%	$301,500	Future assets within next 5 years
Goulburn	Drainage	Drainage Upgrade	2021/22	$301,500	100.0%	100%	$301,500	Future assets within 10 years
Goulburn	Drainage	Drainage Upgrade	2022/23	$301,500	100.0%	100%	$301,500	Future assets within 10 years
Goulburn	Drainage	Drainage Upgrade	2023/24	$301,500	100.0%	100%	$301,500	Future assets within 10 years
Goulburn	Drainage	Drainage Upgrade	2024/25	$301,500	100.0%	100%	$301,500	Future assets within 10 years
Goulburn	Drainage	Drainage Upgrade	2025/26	$301,500	100.0%	100%	$301,500	Future assets within 10 years
Goulburn	Drainage	Headwall Renewal	2016/17	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2017/18	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2018/19	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2019/20	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2020/21	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2021/22	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2022/23	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2023/24	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2024/25	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	Headwall Renewal	2025/26	$2,000	100.0%	100%	$2,000	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2016/17	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2017/18	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2018/19	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2019/20	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2020/21	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2021/22	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2022/23	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2023/24	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2024/25	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2025/26	$10,500	100.0%	100%	$10,500	Future renewal within next 10 years
Goulburn	Drainage	GPT Renewal	2016/17	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2017/18	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2018/19	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2019/20	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2020/21	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2021/22	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2022/23	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2023/24	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2024/25	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years
Goulburn	Drainage	Pipe Renewal	2025/26	$12,095	100.0%	100%	$12,095	Future renewal within next 10 years

Future Capital Works Program - Stormwater

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
Marys Mount	Drainage	GPT Renewal	2016/17	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2017/18	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2018/19	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2019/20	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2020/21	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2021/22	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2022/23	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2023/24	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2024/25	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years
Marys Mount	Drainage	GPT Renewal	2025/26	$3,300	100.0%	100%	$3,300	Future renewal within next 10 years

Future Capital Works Program - Stormwater

Service Area Marulan

Year of Calculation 2016

Assumptions:

Asset Service Area(s)	Asset Purpose	Asset Details	Construction Date	Cost Estimate	Shared Proportion	Growth Proportion	Recoverable Cost	Justification
		No items in Capital Works Program in Marulan						

18 Calculation of the Capital Charge

Calculation of Capital Charge - Water Supply

Service Area Goulburn

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 :	3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 :	5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	1,838,518	0
1996/97	0	144
1997/98	0	146
1998/99	0	147
1999/00	0	149
2000/01	0	151
2001/02	0	152
2002/03	0	154
2003/04	0	155
2004/05	0	149
2005/06	0	12
2006/07	0	31
2007/08	0	152
2008/09	0	219
2009/10	0	182
2010/11	0	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	0	77
2017/18	0	79
2018/19	0	80
2019/20	0	81
2020/21	0	83
2021/22	0	67
2022/23	0	68
2023/24	0	69
2024/25	0	70
2025/26	0	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146

NPV Capital Cost	1,838,518
NPV ET Take up	2,948
NPV Charge ($/ET)	624

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	259,628	0
1996/97	65,501	144
1997/98	784,853	146
1998/99	488,047	147
1999/00	444,105	149
2000/01	651,942	151
2001/02	317,683	152
2002/03	417,013	154
2003/04	0	155
2004/05	14,895,313	149
2005/06	1,987,454	12
2006/07	0	31
2007/08	1,379,585	152
2008/09	40,950	219
2009/10	1,138,368	182
2010/11	481,959	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	0	77
2017/18	0	79
2018/19	0	80
2019/20	0	81
2020/21	0	83
2021/22	0	67
2022/23	0	68
2023/24	0	69
2024/25	0	70
2025/26	0	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146

NPV Capital Cost	15,283,573
NPV ET Take up	2,102
NPV Charge ($/ET)	7,271

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	144
1997/98	0	146
1998/99	0	147
1999/00	0	149
2000/01	0	151
2001/02	0	152
2002/03	0	154
2003/04	0	155
2004/05	0	149
2005/06	0	12
2006/07	0	31
2007/08	0	152
2008/09	0	219
2009/10	0	182
2010/11	0	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	119,925	77
2017/18	399,750	79
2018/19	1,783,500	80
2019/20	404,500	81
2020/21	227,550	83
2021/22	0	67
2022/23	676,500	68
2023/24	0	69
2024/25	0	70
2025/26	0	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146

NPV Capital Cost	1,134,175
NPV ET Take up	2,102
NPV Charge ($/ET)	540

TOTAL NPV CAPITAL WORKS CHARGE per ET **$8,434**

Calculation of Capital Charge - Water Supply

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	130,055	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	33
2006/07	0	29
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	83
2014/15	0	86
2015/16	0	30
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		130,055
NPV ET Take up		1,020
NPV Charge ($/ET)		128

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	5,765	0
1996/97	30,882	0
1997/98	92,646	0
1998/99	305,526	0
1999/00	19,929	0
2000/01	114,057	0
2001/02	16,470	0
2002/03	53,529	0
2003/04	0	0
2004/05	9,324,708	8
2005/06	295,849	33
2006/07	0	29
2007/08	0	54
2008/09	3,901	61
2009/10	0	63
2010/11	159,997	99
2011/12	0	63
2012/13	0	140
2013/14	0	83
2014/15	0	86
2015/16	0	30
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		6,810,674
NPV ET Take up		671
NPV Charge ($/ET)		10,148

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	33
2006/07	0	29
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	83
2014/15	0	86
2015/16	0	30
2016/17	75,075	74
2017/18	211,750	74
2018/19	346,500	74
2019/20	0	74
2020/21	142,450	74
2021/22	0	74
2022/23	423,500	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		367,644
NPV ET Take up		671
NPV Charge ($/ET)		548

TOTAL NPV CAPITAL WORKS CHARGE per ET 10,824

Calculation of Capital Charge - Water Supply

Service Area Marulan

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 :	3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 :	5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	0
NPV ET Take up	136
NPV Charge ($/ET)	0

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	632,557	5
1998/99	24,118	5
1999/00	62,596	5
2000/01	36,363	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	106,951	6
2005/06	0	2
2006/07	4,295	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	746,024
NPV ET Take up	97
NPV Charge ($/ET)	7,657

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	150,000	5
2022/23	1,400,000	5
2023/24	150,000	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	455,438
NPV ET Take up	97
NPV Charge ($/ET)	4,674

TOTAL NPV CAPITAL WORKS CHARGE per ET **$12,331**

Calculation of Capital Charge - Sewerage

Service Area Goulburn

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	1,835,372	0
1996/97	0	100
1997/98	0	101
1998/99	0	102
1999/00	0	103
2000/01	0	104
2001/02	0	105
2002/03	0	107
2003/04	0	108
2004/05	0	101
2005/06	0	0
2006/07	0	11
2007/08	0	89
2008/09	0	133
2009/10	0	107
2010/11	0	12
2011/12	0	88
2012/13	0	46
2013/14	0	0
2014/15	0	0
2015/16	0	48
2016/17	0	31
2017/18	0	32
2018/19	0	33
2019/20	0	34
2020/21	0	35
2021/22	0	23
2022/23	0	24
2023/24	0	25
2024/25	0	26
2025/26	0	27
2026/27	0	15
2027/28	0	15
2028/29	0	16
2029/30	0	17
2030/31	0	17
2031/32	0	18
2032/33	0	18
2033/34	0	74
2034/35	0	94
2035/36	0	94
2036/37	0	95
2037/38	0	96
2038/39	0	96
2039/40	0	97
2040/41	0	98
2041/42	0	98
2042/43	0	99
2043/44	0	100
2044/45	0	100
2045/46	0	101

NPV Capital Cost 1,835,372
NPV ET Take up 1,670
NPV Charge ($/ET) 1,099

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	333,358	0
1996/97	0	100
1997/98	1,308,025	101
1998/99	487,216	102
1999/00	543,293	103
2000/01	2,087,165	104
2001/02	64,046	105
2002/03	535,716	107
2003/04	141,709	108
2004/05	241,024	101
2005/06	691,010	0
2006/07	7,480,733	11
2007/08	1,426,035	89
2008/09	768,228	133
2009/10	461,600	107
2010/11	159,488	12
2011/12	6,952	88
2012/13	0	46
2013/14	0	0
2014/15	0	0
2015/16	0	48
2016/17	0	31
2017/18	0	32
2018/19	0	33
2019/20	0	34
2020/21	0	35
2021/22	0	23
2022/23	0	24
2023/24	0	25
2024/25	0	26
2025/26	0	27
2026/27	0	15
2027/28	0	15
2028/29	0	16
2029/30	0	17
2030/31	0	17
2031/32	0	18
2032/33	0	18
2033/34	0	74
2034/35	0	94
2035/36	0	94
2036/37	0	95
2037/38	0	96
2038/39	0	96
2039/40	0	97
2040/41	0	98
2041/42	0	98
2042/43	0	99
2043/44	0	100
2044/45	0	100
2045/46	0	101

NPV Capital Cost 11,015,331
NPV ET Take up 1,251
NPV Charge ($/ET) 8,803

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	100
1997/98	0	101
1998/99	0	102
1999/00	0	103
2000/01	0	104
2001/02	0	105
2002/03	0	107
2003/04	0	108
2004/05	0	101
2005/06	0	0
2006/07	0	11
2007/08	0	89
2008/09	0	133
2009/10	0	107
2010/11	0	12
2011/12	0	88
2012/13	0	46
2013/14	0	0
2014/15	0	0
2015/16	0	48
2016/17	2,102,917	31
2017/18	2,486,262	32
2018/19	1,976,000	33
2019/20	0	34
2020/21	700,000	35
2021/22	1,299,000	23
2022/23	450,000	24
2023/24	800,000	25
2024/25	0	26
2025/26	1,020,000	27
2026/27	0	15
2027/28	0	15
2028/29	0	16
2029/30	0	17
2030/31	0	17
2031/32	0	18
2032/33	0	18
2033/34	0	74
2034/35	0	94
2035/36	0	94
2036/37	0	95
2037/38	0	96
2038/39	0	96
2039/40	0	97
2040/41	0	98
2041/42	0	98
2042/43	0	99
2043/44	0	100
2044/45	0	100
2045/46	0	101

NPV Capital Cost 3,219,751
NPV ET Take up 1,251
NPV Charge ($/ET) 2,573

TOTAL NPV CAPITAL WORKS CHARGE per ET **$12,475**

Calculation of Capital Charge - Sewerage

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	5,075,698	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	31
2006/07	0	31
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	57
2014/15	0	75
2015/16	0	67
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0

NPV Capital Cost	5,075,698
NPV ET Take up	1,019
NPV Charge ($/ET)	4,982

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	0
1997/98	493,555	0
1998/99	520,314	0
1999/00	89,197	0
2000/01	1,613,867	0
2001/02	2,516,129	0
2002/03	427,550	0
2003/04	74,331	0
2004/05	832,962	8
2005/06	284,714	31
2006/07	52,329	31
2007/08	0	54
2008/09	75,520	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	57
2014/15	0	75
2015/16	0	67
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0

NPV Capital Cost	5,249,131
NPV ET Take up	670
NPV Charge ($/ET)	7,834

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	31
2006/07	0	31
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	57
2014/15	0	75
2015/16	0	67
2016/17	0	74
2017/18	2,633,383	74
2018/19	2,675,138	74
2019/20	2,224,000	74
2020/21	834,000	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	611,600	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0

NPV Capital Cost	2,712,908
NPV ET Take up	670
NPV Charge ($/ET)	4,049

TOTAL NPV CAPITAL WORKS CHARGE per ET 16,865

Calculation of Capital Charge - Sewerage

Service Area Marulan

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 :	3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 :	5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	432,086	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	432,086
NPV ET Take up	136
NPV Charge ($/ET)	3,169

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	408,551	5
1997/98	199,998	5
1998/99	0	5
1999/00	853,465	5
2000/01	0	5
2001/02	0	5
2002/03	731,165	5
2003/04	449,192	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	49,791	7
2008/09	0	10
2009/10	0	9
2010/11	10,695	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	2,129,175
NPV ET Take up	97
NPV Charge ($/ET)	21,860

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	35,280	5
2018/19	123,480	5
2019/20	882,003	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	400,000	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5

NPV Capital Cost	407,410
NPV ET Take up	97
NPV Charge ($/ET)	4,183

TOTAL NPV CAPITAL WORKS CHARGE per ET 29,212

Calculation of Capital Charge - Stormwater

Service Area Goulburn

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	1,807,865	0
1996/97	0	144
1997/98	0	146
1998/99	0	147
1999/00	0	149
2000/01	0	151
2001/02	0	152
2002/03	0	154
2003/04	0	155
2004/05	0	149
2005/06	0	12
2006/07	0	31
2007/08	0	152
2008/09	0	219
2009/10	0	182
2010/11	0	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	0	77
2017/18	0	79
2018/19	0	80
2019/20	0	81
2020/21	0	83
2021/22	0	67
2022/23	0	68
2023/24	0	69
2024/25	0	70
2025/26	0	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146
NPV Capital Cost		1,807,865
NPV ET Take up		2,948
NPV Charge ($/ET)		613

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	387,370	0
1996/97	42,655	144
1997/98	88,936	146
1998/99	112,629	147
1999/00	649,431	149
2000/01	8,390	151
2001/02	172,797	152
2002/03	342,418	154
2003/04	148,288	155
2004/05	45,298	149
2005/06	873,258	12
2006/07	1,409,541	31
2007/08	423	152
2008/09	56,725	219
2009/10	4,052	182
2010/11	15,542	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	0	77
2017/18	0	79
2018/19	0	80
2019/20	0	81
2020/21	0	83
2021/22	0	67
2022/23	0	68
2023/24	0	69
2024/25	0	70
2025/26	0	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146
NPV Capital Cost		3,048,751
NPV ET Take up		2,102
NPV Charge ($/ET)		1,450

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	144
1997/98	0	146
1998/99	0	147
1999/00	0	149
2000/01	0	151
2001/02	0	152
2002/03	0	154
2003/04	0	155
2004/05	0	149
2005/06	0	12
2006/07	0	31
2007/08	0	152
2008/09	0	219
2009/10	0	182
2010/11	0	61
2011/12	0	155
2012/13	0	128
2013/14	0	0
2014/15	0	22
2015/16	0	137
2016/17	326,095	77
2017/18	326,095	79
2018/19	326,095	80
2019/20	326,095	81
2020/21	326,095	83
2021/22	326,095	67
2022/23	326,095	68
2023/24	326,095	69
2024/25	326,095	70
2025/26	326,095	71
2026/27	0	54
2027/28	0	55
2028/29	0	56
2029/30	0	57
2030/31	0	58
2031/32	0	59
2032/33	0	59
2033/34	0	115
2034/35	0	135
2035/36	0	136
2036/37	0	137
2037/38	0	138
2038/39	0	139
2039/40	0	140
2040/41	0	141
2041/42	0	142
2042/43	0	143
2043/44	0	144
2044/45	0	145
2045/46	0	146
NPV Capital Cost		949,015
NPV ET Take up		2,102
NPV Charge ($/ET)		451

TOTAL NPV CAPITAL WORKS CHARGE per ET $2,515

Calculation of Capital Charge - Stormwater

Service Area Marys Mount

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	21,472	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	33
2006/07	0	29
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	83
2014/15	0	86
2015/16	0	30
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		21,472
NPV ET Take up		1,050
NPV Charge ($/ET)		20

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	665,777	0
2004/05	35,743	8
2005/06	3,032	33
2006/07	142,735	29
2007/08	71,343	54
2008/09	0	61
2009/10	68,045	63
2010/11	101,799	99
2011/12	42,217	63
2012/13	316,831	140
2013/14	19,456	83
2014/15	0	86
2015/16	0	30
2016/17	0	74
2017/18	0	74
2018/19	0	74
2019/20	0	74
2020/21	0	74
2021/22	0	74
2022/23	0	74
2023/24	0	74
2024/25	0	74
2025/26	0	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		847,698
NPV ET Take up		671
NPV Charge ($/ET)		1,263

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	0
1997/98	0	0
1998/99	0	0
1999/00	0	0
2000/01	0	0
2001/02	0	0
2002/03	0	0
2003/04	0	0
2004/05	0	8
2005/06	0	33
2006/07	0	29
2007/08	0	54
2008/09	0	61
2009/10	0	63
2010/11	0	99
2011/12	0	63
2012/13	0	140
2013/14	0	83
2014/15	0	86
2015/16	0	30
2016/17	3,300	74
2017/18	3,300	74
2018/19	3,300	74
2019/20	3,300	74
2020/21	3,300	74
2021/22	3,300	74
2022/23	3,300	74
2023/24	3,300	74
2024/25	3,300	74
2025/26	3,300	74
2026/27	0	74
2027/28	0	74
2028/29	0	74
2029/30	0	74
2030/31	0	74
2031/32	0	74
2032/33	0	74
2033/34	0	19
2034/35	0	0
2035/36	0	0
2036/37	0	0
2037/38	0	0
2038/39	0	0
2039/40	0	0
2040/41	0	0
2041/42	0	0
2042/43	0	0
2043/44	0	0
2044/45	0	0
2045/46	0	0
NPV Capital Cost		9,604
NPV ET Take up		671
NPV Charge ($/ET)		14

TOTAL NPV CAPITAL WORKS CHARGE per ET $1,298

Calculation of Capital Charge - Stormwater

Service Area Marulan

Year of Calculation 2016

Assumptions:

DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED BEFORE 1 JANUARY 1996 : 3%
DISCOUNT RATE (pa) FOR ASSETS CONSTRUCTED ON OR AFTER 1 JANUARY 1996 : 5%
DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS : 5%

Existing Assets (Pre 1996)

Year	Recoupable Capital Expenditure (MEERA $)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5
NPV Capital Cost		0
NPV ET Take up		136
NPV Charge ($/ET)		0

Existing Assets (Post 1996)

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	23,473	0
1996/97	0	5
1997/98	3,807	5
1998/99	0	5
1999/00	0	5
2000/01	83,242	5
2001/02	32,975	5
2002/03	57,577	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5
NPV Capital Cost		157,674
NPV ET Take up		97
NPV Charge ($/ET)		1,619

Future Assets

Year	Recoupable Capital Expenditure ($)	Annual ET Take-up (ET)
1995/96	0	0
1996/97	0	5
1997/98	0	5
1998/99	0	5
1999/00	0	5
2000/01	0	5
2001/02	0	5
2002/03	0	5
2003/04	0	5
2004/05	0	6
2005/06	0	2
2006/07	0	2
2007/08	0	7
2008/09	0	10
2009/10	0	9
2010/11	0	6
2011/12	0	8
2012/13	0	9
2013/14	0	3
2014/15	0	4
2015/16	0	6
2016/17	0	5
2017/18	0	5
2018/19	0	5
2019/20	0	5
2020/21	0	6
2021/22	0	5
2022/23	0	5
2023/24	0	5
2024/25	0	5
2025/26	0	5
2026/27	0	4
2027/28	0	5
2028/29	0	5
2029/30	0	5
2030/31	0	5
2031/32	0	5
2032/33	0	5
2033/34	0	5
2034/35	0	5
2035/36	0	5
2036/37	0	5
2037/38	0	5
2038/39	0	5
2039/40	0	5
2040/41	0	5
2041/42	0	5
2042/43	0	5
2043/44	0	5
2044/45	0	5
2045/46	0	5
NPV Capital Cost		0
NPV ET Take up		97
NPV Charge ($/ET)		0

TOTAL NPV CAPITAL WORKS CHARGE per ET **$1,619**

19 Calculation of the Reduction Amount

Calculation of Reduction Amount - Water Supply

Service Area | Goulburn & Marys Mount

Year of Calculation | 2016

Assumptions:

DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%
ANNUAL WATER BILL:	$659
ANNUAL WATER OMA COST:	$426
NET INCOME:	$233

Year	Total ETs	New ETs per Year	Cumulative New ETs	Net Income from New ETs ($/ET)
2015/16	16,793			
2016/17	16,944	151	151	$35,246
2017/18	17,097	153	304	$70,809
2018/19	17,251	154	458	$106,692
2019/20	17,406	155	613	$142,898
2020/21	17,563	157	769	$179,430
2021/22	17,703	141	910	$212,195
2022/23	17,845	142	1,052	$245,222
2023/24	17,988	143	1,194	$278,514
2024/25	18,132	144	1,338	$312,072
2025/26	18,277	145	1,483	$345,898
2026/27	18,405	128	1,611	$375,732
2027/28	18,533	129	1,740	$405,776
2028/29	18,663	130	1,870	$436,030
2029/30	18,794	131	2,000	$466,496
2030/31	18,925	132	2,132	$497,174
2031/32	19,058	132	2,264	$528,068
2032/33	19,191	133	2,398	$559,178
2033/34	19,326	134	2,532	$590,506
2034/35	19,461	135	2,667	$622,053
2035/36	19,597	136	2,804	$653,820
2036/37	19,734	137	2,941	$685,811
2037/38	19,872	138	3,079	$718,025
2038/39	20,011	139	3,218	$750,464
2039/40	20,152	140	3,358	$783,131
2040/41	20,293	141	3,499	$816,026
2041/42	20,435	142	3,641	$849,152
2042/43	20,578	143	3,784	$882,510
2043/44	20,722	144	3,928	$916,101
2044/45	20,867	145	4,073	$949,927
2045/46	21,013	146	4,220	$983,990

NPV new ETs	2,294
NPV net income from New ETs ($/ET)	$6,452,574

TOTAL NPV REDUCTION AMOUNT CHARGE per ET | **$2,813**

Calculation of Reduction Amount - Water Supply

Service Area | **Marulan**

Year of Calculation | 2016

Assumptions:

DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%
ANNUAL WATER BILL:	$643
ANNUAL WATER OMA COST:	$426
NET INCOME:	$217

Year	Total ETs	New ETs per Year	Cumulative New ETs	Net Income from New ETs ($)
2015/16	590			
2016/17	595	5	5	$1,154
2017/18	601	5	11	$2,319
2018/19	606	5	16	$3,495
2019/20	612	5	22	$4,681
2020/21	617	6	27	$5,877
2021/22	622	5	32	$6,950
2022/23	627	5	37	$8,032
2023/24	632	5	42	$9,123
2024/25	637	5	47	$10,222
2025/26	642	5	52	$11,330
2026/27	647	4	57	$12,307
2027/28	651	5	61	$13,291
2028/29	656	5	66	$14,282
2029/30	660	5	70	$15,280
2030/31	665	5	75	$16,285
2031/32	670	5	80	$17,297
2032/33	674	5	84	$18,316
2033/34	679	5	89	$19,342
2034/35	684	5	94	$20,375
2035/36	689	5	99	$21,416
2036/37	693	5	103	$22,463
2037/38	698	5	108	$23,519
2038/39	703	5	113	$24,581
2039/40	708	5	118	$25,651
2040/41	713	5	123	$26,729
2041/42	718	5	128	$27,814
2042/43	723	5	133	$28,906
2043/44	728	5	138	$30,006
2044/45	733	5	143	$31,114
2045/46	738	5	148	$32,230

NPV new ETs	81
NPV net income from New ETs ($/ET)	$211,351

TOTAL NPV REDUCTION AMOUNT CHARGE per ET | **$2,622**

Calculation of Reduction Amount - Sewerage

Service Area | **Goulburn & Marys Mount**

Year of Calculation | 2016

Assumptions:

DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%
ANNUAL SEWER BILL:	$724
ANNUAL SEWER OMA COST:	$330
NET INCOME:	$394

Year	Total ETs	New ETs per Year	Cumulative New ETs	Net Income from New ETs ($/ET)
2015/16	11,635			
2016/17	11,740	105	105	$41,258
2017/18	11,846	106	210	$82,888
2018/19	11,952	107	317	$124,893
2019/20	12,060	108	425	$167,275
2020/21	12,168	109	533	$210,039
2021/22	12,266	97	630	$248,393
2022/23	12,364	98	729	$287,055
2023/24	12,463	99	827	$326,025
2024/25	12,562	100	927	$365,308
2025/26	12,663	100	1,028	$404,904
2026/27	12,752	89	1,116	$439,828
2027/28	12,841	89	1,206	$474,997
2028/29	12,931	90	1,295	$510,412
2029/30	13,021	91	1,386	$546,075
2030/31	13,112	91	1,477	$581,987
2031/32	13,204	92	1,569	$618,151
2032/33	13,297	92	1,661	$654,568
2033/34	13,390	93	1,754	$691,240
2034/35	13,483	94	1,848	$728,168
2035/36	13,578	94	1,943	$765,355
2036/37	13,673	95	2,038	$802,803
2037/38	13,768	96	2,133	$840,512
2038/39	13,865	96	2,230	$878,486
2039/40	13,962	97	2,327	$916,725
2040/41	14,060	98	2,424	$955,232
2041/42	14,158	98	2,523	$994,008
2042/43	14,257	99	2,622	$1,033,056
2043/44	14,357	100	2,722	$1,072,378
2044/45	14,457	100	2,822	$1,111,974
2045/46	14,559	101	2,923	$1,151,848

NPV new ETs	1,589
NPV net income from New ETs ($/ET)	$7,553,316

TOTAL NPV REDUCTION AMOUNT CHARGE per ET | **$4,753**

Calculation of Reduction Amount - Sewerage

Service Area | **Marulan**

Year of Calculation | 2016

Assumptions:

DISCOUNT RATE (pa) FOR PROPOSED FUTURE ASSETS :	5%
ANNUAL SEWER BILL:	$874
ANNUAL SEWER OMA COST:	$330
NET INCOME:	$544

Year	Total ETs	New ETs per Year	Cumulative New ETs	Net Income from New ETs ($/ET)
2015/16	590			
2016/17	595	5	5	$2,888
2017/18	601	5	11	$5,802
2018/19	606	5	16	$8,742
2019/20	611	5	22	$11,708
2020/21	617	6	27	$14,702
2021/22	622	5	32	$17,386
2022/23	627	5	37	$20,092
2023/24	632	5	42	$22,820
2024/25	637	5	47	$25,569
2025/26	642	5	52	$28,341
2026/27	646	4	57	$30,786
2027/28	651	5	61	$33,247
2028/29	656	5	66	$35,726
2029/30	660	5	70	$38,222
2030/31	665	5	75	$40,736
2031/32	669	5	80	$43,267
2032/33	674	5	84	$45,816
2033/34	679	5	89	$48,383
2034/35	684	5	94	$50,968
2035/36	688	5	98	$53,571
2036/37	693	5	103	$56,192
2037/38	698	5	108	$58,831
2038/39	703	5	113	$61,489
2039/40	708	5	118	$64,166
2040/41	713	5	123	$66,861
2041/42	718	5	128	$69,575
2042/43	723	5	133	$72,308
2043/44	728	5	138	$75,060
2044/45	733	5	143	$77,832
2045/46	738	5	148	$80,623

NPV new ETs	81
NPV net income from New ETs ($/ET)	$528,690

TOTAL NPV REDUCTION AMOUNT CHARGE per ET | **$6,562**

20 Cross-Subsidy Calculations

Marulan Cross-Subsidy Calculations - Option 1 (Part 1 of 2)- Marulan Water Charges equal to Goulburn Charges

DSP Area	Service Area	Capital Charge for Service Area ($ per ET)	New ETs	PV of new ETs	Proportion of PV of new ETs in each DSP area	Weighted component of capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)	Reduction Amount ($ per ET)	Developer Charge ($ per ET)	Proposed Developer Charge ($ per ET)	Weighted average cross-subsidy to developer charge ($ per ET)
A	Marulan	12,331	148	81	8.4%	1,030	10,950	2,622	8,328	5,621	92
	Marys Mount	10,824	1276	884	91.6%	9,920	10,950	2,813	8,137	8,137	
B	Goulburn	8,434	2,943	1410	100.0%	8,434	8,434	2,813	5,621	5,621	

Annual Water bill - no cross subsidy - Marulan ($ per ET)	$	643.40	**Increase in annual bill due to Marulan Cross Subsidy**	**$ 0.71**
Annual Water bill - no cross subsidy - Goulburn ($ per ET)	$	659.20		
Annual Water bill - with cross subsidy - Marulan ($ per ET)	$	644.11	**Increase in annual bill due to both Cross Subsidies**	**$ 6.35**
Annual Water bill - with cross subsidy - Goulburn ($ per ET)	$	659.91		

Year	Total ETs	New ETs per year	Total ETs	New ETs per year	Total ETs	New ETs per year	Annual Cross-subsidy on developer charges ($000)	PV of annual cross-subsidy on developer charges over 30 years @ 5% ($000)	Annual bill revenue with NO CROSS SUBSIDY ($000)	Annual bill revenue WITH CROSS SUBSIDY ($000)	Additional amount required from annual bills to cover subsidy ($000)	PV of additional amount from annual bills over 30 years @ 5%	Cross-subsidy from existing customers	PV of cross-subsidy from existing customers
	GMC	*GMC*	*Marulan*	*Marulan*	*Goulburn (incl. MM)*	*Goulburn (incl. MM)*								
2015/16	17,383		590		16,793									
2016/17	17,540	156	595	5	16,944	151	14	218	11,553	11,565	12	218	12	198
2017/18	17,698	158	601	5	17,097	153	15		11,657	11,669	12		12	
2018/19	17,857	159	606	5	17,251	154	15		11,762	11,774	13		12	
2019/20	18,018	161	612	5	17,406	155	15		11,868	11,880	13		12	
2020/21	18,180	162	617	6	17,563	157	15		11,974	11,987	13		12	
2021/22	18,325	145	622	5	17,703	141	13		12,070	12,083	13		12	
2022/23	18,472	147	627	5	17,845	142	13		12,167	12,180	13		12	
2023/24	18,620	148	632	5	17,988	143	14		12,264	12,277	13		12	
2024/25	18,769	149	637	5	18,132	144	14		12,362	12,375	13		12	
2025/26	18,919	150	642	5	18,277	145	14		12,461	12,474	13		12	
2026/27	19,051	132	647	4	18,405	128	12		12,548	12,562	13		12	
2027/28	19,185	133	651	5	18,533	129	12		12,636	12,650	14		12	
2028/29	19,319	134	656	5	18,663	130	12		12,725	12,738	14		12	
2029/30	19,454	135	660	5	18,794	131	12		12,814	12,827	14		12	
2030/31	19,590	136	665	5	18,925	132	13		12,903	12,917	14		12	
2031/32	19,727	137	670	5	19,058	132	13		12,994	13,008	14		12	
2032/33	19,865	138	674	5	19,191	133	13		13,085	13,099	14		12	
2033/34	20,005	139	679	5	19,326	134	13		13,176	13,190	14		12	
2034/35	20,145	140	684	5	19,461	135	13		13,268	13,283	14		12	
2035/36	20,286	141	689	5	19,597	136	13		13,361	13,376	14		12	
2036/37	20,428	142	693	5	19,734	137	13		13,455	13,469	14		12	
2037/38	20,571	143	698	5	19,872	138	13		13,549	13,564	15		12	
2038/39	20,715	144	703	5	20,011	139	13		13,644	13,659	15		12	
2039/40	20,860	145	708	5	20,152	140	13		13,739	13,754	15		12	
2040/41	21,006	146	713	5	20,293	141	13		13,836	13,850	15		12	
2041/42	21,153	147	718	5	20,435	142	14		13,932	13,947	15		12	
2042/43	21,301	148	723	5	20,578	143	14		14,030	14,045	15		12	
2043/44	21,450	149	728	5	20,722	144	14		14,128	14,143	15		12	
2044/45	21,600	150	733	5	20,867	145	14		14,227	14,242	15		12	
2045/46	21,751	151	738	5	21,013	146	14		14,327	14,342	15		12	

Marulan Cross-Subsidy Calculations - Option 1 (Part 2 of 2)- Marys Mount Water Charges equal to Goulburn Charges

DSP Area	Service Area	Capital Charge for Service Area ($ per ET)	New ETs	PV of new ETs	Proportion of PV of new ETs in each DSP area	Weighted component of capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)	Reduction Amount ($ per ET)	Developer Charge ($ per ET)	Proposed Developer Charge ($ per ET)	Weighted average cross-subsidy to developer charge ($ per ET)
A	Marulan	12,331	148	81	8.4%	1,030	10,950	2,622	8,328	8,328	735
	Marys Mount	10,824	1276	884	91.6%	9,920	10,950	2,813	8,137	5,621	
B	Goulburn	8,434	2,943	1410	100.0%	8,434	8,434	2,813	5,621	5,621	

Annual Water bill - no cross subsidy - Marulan ($ per ET)	$	643.40	**Increase in annual bill due to Marys Mount Cross Subsidy**	**$ 5.65**
Annual Water bill - no cross subsidy - Goulburn ($ per ET)	$	659.20		
Annual Water bill - with cross subsidy - Marulan ($ per ET)	$	649.05	**Increase in annual bill due to both Cross Subsidies**	**$ 6.35**
Annual Water bill - with cross subsidy - Goulburn ($ per ET)	$	664.85		

Year	Total ETs	New ETs per year	Total ETs	New ETs per year	Total ETs	New ETs per year	Annual Cross-subsidy on developer charges ($000)	PV of annual cross-subsidy on developer charges over 30 years @ 5% ($000)	Annual bill revenue with NO CROSS SUBSIDY ($000)	Annual bill revenue WITH CROSS SUBSIDY ($000)	Additional amount required from annual bills to cover subsidy ($000)	PV of additional amount from annual bills over 30 years @ 5%	Cross-subsidy from existing customers	PV of cross-subsidy from existing customers
	GMC	*GMC*	*MM*	*MM*	*Maralun*	*Marulan*								
2015/16	17,383		749		590									
2016/17	17,540	156	823	74	595	5	115	1,746	11,553	11,652	99	1,746	98	1,584
2017/18	17,698	158	897	74	601	5	116		11,657	11,757	100		98	
2018/19	17,857	159	970	74	606	5	117		11,762	11,863	101		98	
2019/20	18,018	161	1,044	74	612	5	118		11,868	11,969	102		98	
2020/21	18,180	162	1,118	74	617	6	119		11,974	12,077	103		98	
2021/22	18,325	145	1,192	74	622	5	107		12,070	12,174	103		98	
2022/23	18,472	147	1,266	74	627	5	108		12,167	12,271	104		98	
2023/24	18,620	148	1,340	74	632	5	109		12,264	12,369	105		98	
2024/25	18,769	149	1,414	74	637	5	110		12,362	12,468	106		98	
2025/26	18,919	150	1,488	74	642	5	110		12,461	12,568	107		98	
2026/27	19,051	132	1,562	74	647	4	97		12,548	12,656	108		98	
2027/28	19,185	133	1,636	74	651	5	98		12,636	12,744	108		98	
2028/29	19,319	134	1,710	74	656	5	99		12,725	12,834	109		98	
2029/30	19,454	135	1,784	74	660	5	99		12,814	12,924	110		98	
2030/31	19,590	136	1,858	74	665	5	100		12,903	13,014	111		98	
2031/32	19,727	137	1,932	74	670	5	101		12,994	13,105	111		98	
2032/33	19,865	138	2,006	74	674	5	102		13,085	13,197	112		98	
2033/34	20,005	139	2,025	19	679	5	102		13,176	13,289	113		98	
2034/35	20,145	140	2,025	0	684	5	103		13,268	13,382	114		98	
2035/36	20,286	141	2,025	0	689	5	104		13,361	13,476	115		98	
2036/37	20,428	142	2,025	0	693	5	104		13,455	13,570	115		98	
2037/38	20,571	143	2,025	0	698	5	105		13,549	13,665	116		98	
2038/39	20,715	144	2,025	0	703	5	106		13,644	13,761	117		98	
2039/40	20,860	145	2,025	0	708	5	107		13,739	13,857	118		98	
2040/41	21,006	146	2,025	0	713	5	107		13,836	13,954	119		98	
2041/42	21,153	147	2,025	0	718	5	108		13,932	14,052	119		98	
2042/43	21,301	148	2,025	0	723	5	109		14,030	14,150	120		98	
2043/44	21,450	149	2,025	0	728	5	110		14,128	14,249	121		98	
2044/45	21,600	150	2,025	0	733	5	110		14,227	14,349	122		98	
2045/46	21,751	151	2,025	0	738	5	111		14,327	14,449	123		98	

Cross-Subsidy Calculations - Reduce Marulan Sewer Charges to be equal to Goulburn Charges

DSP Area	Service Area	Capital Charge for Service Area ($ per ET)	New ETs	PV of new ETs	Proportion of PV of new ETs in each DSP area	Weighted component of capital charge for each DSP area ($ per ET)	Weighted capital charge for each DSP area ($ per ET)	Reduction Amount ($ per ET)	Developer Charge ($ per ET)	Proposed Developer Charge ($ per ET)	Weighted average cross-subsidy to developer charge ($ per ET)
A	Marulan	29,212	148	81	100.0%	29,212	29,212	6,562	22,650	10,165	
	Marys Mount	16,865	1276	884	55.6%	9,382					
B	Goulburn	12,475	1,647	705	44.4%	5,535	14,917	4,753	10,165	10,165	602

Annual Sewerage bill - no cross subsidy - Marulan ($ per ET)	$	874.00	**Increase in annual bill**
Annual Sewerage bill - no cross subsidy - Goulburn ($ per ET)	$	724.00	
Annual Sewerage bill - with cross subsidy - Marulan ($ per ET)	$	878.62	
Annual Sewerage bill - with cross subsidy - Goulburn ($ per ET)	$	728.62	

Year	Total ETs	New ETs per year	Total ETs	New ETs per year	Total ETs	New ETs per year	Annual Cross-subsidy on developer charges ($000)	PV of annual cross-subsidy on developer charges over 30 years @ 5% ($000)	Annual bill revenue with NO CROSS SUBSIDY ($000)	Annual bill revenue WITH CROSS SUBSIDY ($000)	Additional amount required from annual bills to cover subsidy ($000)	PV of additional amount from annual bills over 30 years @ 5%	Cross-subsidy from existing customers	PV of cross-subsidy from existing customers
	GMC	*GMC*	*Marulan*	*Marulan*	*Goulburn (incl. MM)*	*Goulburn (incl. MM)*								
2015/16	12,225		590		11,635									
2016/17	12,335	110	595	5	11,740	105	66	1,005	9,020	9,077	57	1,005	56	912
2017/18	12,446	111	601	5	11,846	106	67		9,101	9,159	58		56	
2018/19	12,558	112	606	5	11,952	107	67		9,183	9,241	58		56	
2019/20	12,671	113	611	5	12,060	108	68		9,266	9,324	59		56	
2020/21	12,785	114	617	6	12,168	109	69		9,349	9,408	59		56	
2021/22	12,887	102	622	5	12,266	97	62		9,424	9,483	60		56	
2022/23	12,991	103	627	5	12,364	98	62		9,499	9,559	60		56	
2023/24	13,094	104	632	5	12,463	99	63		9,575	9,636	60		56	
2024/25	13,199	105	637	5	12,562	100	63		9,652	9,713	61		56	
2025/26	13,305	106	642	5	12,663	100	64		9,729	9,790	61		56	
2026/27	13,398	93	646	4	12,752	89	56		9,797	9,859	62		56	
2027/28	13,492	94	651	5	12,841	89	56		9,866	9,928	62		56	
2028/29	13,586	94	656	5	12,931	90	57		9,935	9,997	63		56	
2029/30	13,681	95	660	5	13,021	91	57		10,004	10,067	63		56	
2030/31	13,777	96	665	5	13,112	91	58		10,074	10,138	64		56	
2031/32	13,873	96	669	5	13,204	92	58		10,145	10,209	64		56	
2032/33	13,971	97	674	5	13,297	92	58		10,216	10,280	65		56	
2033/34	14,068	98	679	5	13,390	93	59		10,287	10,352	65		56	
2034/35	14,167	98	684	5	13,483	94	59		10,359	10,425	65		56	
2035/36	14,266	99	688	5	13,578	94	60		10,432	10,498	66		56	
2036/37	14,366	100	693	5	13,673	95	60		10,505	10,571	66		56	
2037/38	14,466	101	698	5	13,768	96	61		10,578	10,645	67		56	
2038/39	14,568	101	703	5	13,865	96	61		10,652	10,720	67		56	
2039/40	14,670	102	708	5	13,962	97	61		10,727	10,795	68		56	
2040/41	14,772	103	713	5	14,060	98	62		10,802	10,870	68		56	
2041/42	14,876	103	718	5	14,158	98	62		10,878	10,946	69		56	
2042/43	14,980	104	723	5	14,257	99	63		10,954	11,023	69		56	
2043/44	15,085	105	728	5	14,357	100	63		11,031	11,100	70		56	
2044/45	15,190	106	733	5	14,457	100	64		11,108	11,178	70		56	
2045/46	15,297	106	738	5	14,559	101	64		11,186	11,256	71		56	